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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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*/
/**
* 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>Summarizing the recommended options (for actual LOB fields):
*
* JDBC 4.0 driver (including Oracle 11g driver): 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.
* Oracle 10g driver: 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).
* Oracle 9i driver: Use {@link OracleLobHandler} with a connection-pool-specific
* {@link OracleLobHandler#setNativeJdbcExtractor NativeJdbcExtractor}.
* PostgreSQL: Configure {@link DefaultLobHandler} with {@code wrapAsLob=true},
* and use that LobHandler to access OID columns (but not BYTEA) in your database tables.
* 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}.
*
*
* @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/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/lob/LobHandler.java
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jar/org/springframework/jdbc/support/incrementer/DataFieldMaxValueIncrementer.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java

* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.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:
*
* Simplify error handling, avoiding the need for try/catch/finally
* blocks in application code.
* 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.
* Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
*
*
* <p>This package and related packages are discussed in Chapter 9 of
* Expert One-On-One J2EE Design and Development
* by Rod Johnson (Wrox, 2002).
*/

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jar/org/springframework/jdbc/object/GenericSqlQuery.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/PreparedStatementCallback.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/StatementCallback.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/ConnectionCallback.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/ConnectionHolder.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/SQLErrorCodes.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java
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jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java
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jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/HanaSequenceMaxValueIncrementer.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/ArgumentTypePreparedStatementSetter.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/metadata/CallMetaDataProviderFactory.java
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-

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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/ColumnMapRowMapper.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java

* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/SQLStateSQLExceptionTranslator.java
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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>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.
* 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.
*/

Found in path(s):
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/lob/OracleLobHandler.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>NOTE: 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/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/lob/LobCreator.java

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jar/org/springframework/jdbc/core/namedparam/ParsedSql.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/DB2MainframeSequenceMaxValueIncrementer.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/xml/SqlXmlValue.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/DisposableSqlTypeValue.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/object/MappingSqlQuery.java

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jar/org/springframework/jdbc/core/SqlRowSetResultSetExtractor.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/SingleColumnRowMapper.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabase.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseBuilder.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/init/ScriptStatementFailedException.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/nativejdbc/SimpleNativeJdbcExtractor.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/nativejdbc/NativeJdbcExtractor.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/xml/SqlXmlHandler.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/nativejdbc/CommonsDbcpNativeJdbcExtractor.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/simple/SimpleJdbcCallOperations.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/RowCountCallbackHandler.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/JdbcOperations.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/BatchUpdateUtils.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/RdbmsOperation.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/DataSourceUtils.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/RowMapper.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsert.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/ConnectionProxy.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/AbstractFallbackSQLExceptionTranslator.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/JdbcTemplate.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlParameterValue.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/NamedParameterBatchUpdateUtils.java

* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/DatabasePopulatorUtils.java

* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlOutParameter.java

* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ParameterDisposer.java

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* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcOperations.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/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
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jar/org/springframework/jdbc/CannotGetJdbcConnectionException.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/nativejdbc/WebLogicNativeJdbcExtractor.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/nativejdbc/WebSphereNativeJdbcExtractor.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java

* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/AbstractLobHandler.java

1.6 jaxb-runtime 2.3.1

1.7 jackson-dataformat-xml 2.10.4

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1.8 httpclient 3.10.0

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1.9 xpp3-min 1.1.3.4.O

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Initial authors:

 Stefan Haustein
 Aleksander Slominski

2001-12-12
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1.10 protobuf-java-util 3.5.1

1.11 spring-context 4.3.19.RELEASE

1.11.1 Available under license :

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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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jar/org/springframework/ejb/config/RemoteStatelessSessionBeanDefinitionParser.java
* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
jar/org/springframework/ejb/access/AbstractRemoteSlsbInvokerInterceptor.java
* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
jar/org/springframework/validation/Validator.java
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jar/org/springframework/context/NoSuchMessageException.java
* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/ApplicationContextAware.java
* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
jar/org/springframework/ejb/access/SimpleRemoteStatelessSessionProxyFactoryBean.java
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* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/event/ContextStoppedEvent.java
* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
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jar/org/springframework/ui/Model.java
* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/weaving/LoadTimeWeaverAwareProcessor.java
* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
jar/org/springframework/jndi/JndiLookupFailureException.java
* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/HierarchicalMessageSource.java
* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/EnableMBeanExport.java
* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/support/AbstractXmlApplicationContext.java
* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java
* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-

jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java

* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CacheOperationSource.java

* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/support/RemotingSupport.java

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* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/TaskScheduler.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
* {@code AdminServiceFactory}
* and {@code MBeanFactory}.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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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/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
jar/org/springframework/remoting/RemoteAccessException.java

* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
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1.12 sesame-rio-trig 2.7.16

1.13 shiro-event 1.6.0

1.13.1 Available under license :

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The implementation for org.apache.shiro.util.SoftHashMap is based
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jar/com/google/protobuf/SingleFieldBuilder.java

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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

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* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/CodedInputStream.java

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1.21 checker-qual 1.9.13

1.22 hibernate-validator 5.1.2.Final

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1.25 drools-templates 6.5.0.Final

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1.26 spring-expression 4.3.19.RELEASE

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* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/ExpressionException.java

* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/LongLiteral.java

* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/standard/TokenKind.java

* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/BooleanLiteral.java

* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/EvaluationException.java

* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpNE.java

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* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-
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jar/org/springframework/expression/spel/ast/OpDivide.java
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jar/org/springframework/expression/spel/ast/OpInc.java

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* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java

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* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/Ternary.java

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1.28 uuid-creator 5.2.0

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* /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

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* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/enums/UuidLocalDomain.java

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* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/NoArgsFactory.java

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* /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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* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/other/DotNetGuid1Codec.java
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* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/function/BaseNEncoder.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/RandomNodeIdFunction.java
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* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/function/Base64Decoder.java
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* /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
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* /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

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1.31 hazelcast 3.8.9

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1.32 jbool-expressions 1.22

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1.33 config 1.0.2

1.34 hk2-runlevel 2.5.0-b05

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1.36 mvel2 2.2.8.Final

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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 <code>MethodVisitor</code> to send the resulting inlined

   *   method code to (use <code>null</code> 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 <tt>null</tt>.

   * @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/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/commons/JSRInlinerAdapter.java

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*/
/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. 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/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
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* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/commons/package.html
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/signature/package.html
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/package.html
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/analysis/package.html
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/tree/package.html

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/util/package.html

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* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/TypeReference.java

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

Found in path(s):
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*/
/**
  * Constructs a new {@link Textifier}. <i>Subclasses must not use this
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  * version.
  *
  * @throws IllegalStateException
  *          If a subclass calls this constructor.
  */
```

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* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/util/Textifier.java
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* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/Soundex.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/DeepAssignmentNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/BaseVariableResolverFactory.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/DoUntilNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/PropertyHandler.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/FastList.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CompiledEvalNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CommentNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/DefaultLocalVariableResolverFactory.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/ExecutableAccessorSafe.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/InternalNumber.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/InterceptorWrapper.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/dynamic/DynamicOptimizer.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/dynamic/DynamicSetAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ParserContext.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/ResolverTools.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/TextNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/ShellSession.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/UnresolveablePropertyException.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/BigDecimalCH.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/MethodStub.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/TypeInjectionResolverFactoryImpl.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/LiteralDeepPropertyNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/text/TextUtil.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/CommandException.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/TemplateSyntaxError.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/Opcodes.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/CommandSet.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/BigIntegerCH.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CompiledExpressionNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/basic/Set.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/AccessorOptimizer.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/ASTLinkedList.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/basic/Exit.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/AbstractOptimizer.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/Unit.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/BlankLiteral.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/CharArrayCH.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/StaticMethodImportResolver.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/util/TemplateTools.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/debug/Debugger.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/DeclTypedVarNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/ByteCH.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/ForEachNode.java

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* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/ast/PreFixDecNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/templates/res/EvalNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/templates/res/TerminalExpressionNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/AssertNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/debug/Frame.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/integration/impl/SimpleValueResolver.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/templates/res/TerminalNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/sh/command/basic/BasicCommandSet.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/integration/impl/SimpleSTValueResolver.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/util/PropertyTools.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/integration/impl/ClassImportResolverFactory.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/ast/RegExMatchNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/templates/res/CodeNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/Macro.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/integration/impl/StaticMethodImportResolverFactory.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/compiler/EndWithValue.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/util/JITClassLoader.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/Main.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/ASTIterator.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/UntilNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ReturnNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/compiler/CompiledAccExpression.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/templates/res/CompiledTerminalExpressionNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/templates/res/ExpressionNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/sh/command/basic/Help.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/ast/ThisWithNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/DoNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/And.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/ast/IndexedPostFixIncNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ArraySize.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/conversion/ShortCH.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/templates/util/ArrayIterator.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/conversion/CharCH.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/optimizers/dynamic/DynamicAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/integration/impl/MapVariableResolverFactory.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/ArrayTools.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/OperatorNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ForEachNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/file/DirList.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/Node.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/StackElement.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/EndOfStatement.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/MVELRuntime.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/VariableResolver.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/ExecutableAccessor.java
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* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/util/ASMifiable.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/util/Textifiable.java
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* THE POSSIBILITY OF SUCH DAMAGE.
*/
/**
    * 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 fist 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/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/LocalVariableAnnotationNode.java
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```

* THE POSSIBILITY OF SUCH DAMAGE.
*/
/**
    * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
    * constructor</i>. 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/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/commons/GeneratorAdapter.java
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* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Context.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/InnerClassNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/MethodNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/ClassReader.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/AnnotationVisitor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/LabelNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/InsnList.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/IincInsnNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Label.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Attribute.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/tree/analysis/SimpleVerifier.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/FieldNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/analysis/Value.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/FieldWriter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/util/CheckMethodAdapter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/util/ASMifier.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/commons/CodeSizeEvaluator.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Opcodes.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/TableSwitchInsnNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/FrameNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/MethodInsnNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Handler.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/AnnotationWriter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/AnnotationNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/MethodVisitor.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/TypeInsnNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/commons/SimpleRemapper.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/util/CheckClassAdapter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/analysis/Frame.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/util/TraceAnnotationVisitor.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/ParameterNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/commons/Remapper.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/commons/InstructionAdapter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/LineNumberNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/analysis/Subroutine.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Type.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/tree/IntInsnNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/util/TraceMethodVisitor.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/signature/SignatureWriter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/FieldVisitor.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/ClassWriter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Edge.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/commons/AdviceAdapter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/commons/RemappingSignatureAdapter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/signature/SignatureReader.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/analysis/SourceValue.java

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jar/org/mvel2/asm/tree/LdcInsnNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/commons/RemappingFieldAdapter.java

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jar/org/mvel2/asm/tree/analysis/Analyzer.java

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jar/org/mvel2/asm/util/CheckFieldAdapter.java

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jar/org/mvel2/asm/tree/LookupSwitchInsnNode.java

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jar/org/mvel2/asm/tree/analysis/BasicValue.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/Printer.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/AbstractInsnNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/commons/RemappingClassAdapter.java

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jar/org/mvel2/asm/util/TraceClassVisitor.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/analysis/BasicInterpreter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/commons/LocalVariablesSorter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/ClassVisitor.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/ByteVector.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/commons/RemappingMethodAdapter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/InvokeDynamicInsnNode.java

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* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Frame.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/TryCatchBlockNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/TypeAnnotationNode.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/SerialVersionUIDAdder.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/MethodWriter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/Interpreter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/CheckAnnotationAdapter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/CheckSignatureAdapter.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/TraceSignatureVisitor.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Handle.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/TableSwitchGenerator.java

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* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/IndexedVariableAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/IndexedCharSeqAccessorNest.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/MethodAccessorNH.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/collection/ListCreator.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/collection/ExprValueAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayLength.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/collection/ArrayCreator.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/ThisValueAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/Union.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/ConstructorAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/DynamicFieldAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/collection/MDArrayCreator.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/IndexedCharSeqAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/FunctionAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayAccessorNest.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/MapAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/ListAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/collection/MapCreator.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/GetterAccessorNH.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/VariableAccessor.java

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/optimizers/impl/refl/nodes/MapAccessorNest.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/optimizers/impl/refl/nodes/ListAccessorNest.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/optimizers/impl/refl/nodes/BaseAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/optimizers/impl/refl/nodes/DynamicSetterAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessorNH.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/optimizers/impl/refl/nodes/StaticReferenceAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/optimizers/impl/refl/nodes/DynamicFunctionAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessorNH.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/optimizers/impl/refl/nodes/GetterAccessor.java
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* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/DataTypes.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ErrorDetail.java
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1.38 websocket-api 9.3.27.v20190418

1.39 vavr 0.10.2

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1.40 shiro-lang 1.6.0

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* /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

1.42 jetty 9.3.27.v20190418

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1.44 metrics-jetty 4.1.0

1.45 javassist 3.20.0-GA
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/*
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*

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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/RemoteException.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/CompileError.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/CtNewWrappedConstructor.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/Modifier.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/util/proxy/SecurityActions.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/AssignExpr.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationsWriter.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/expr/Handler.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/InstructionPrinter.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/ObjectImporter.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/ClassPath.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/AttributeInfo.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/ByteArray.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/Opcode.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiArrayType.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/SyntheticAttribute.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/DoubleConst.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/ByteArrayClassPath.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/Executor.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/ClassMap.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/compiler/ast/Declarator.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/util/proxy/ProxyObjectInputStream.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/tools/reflect/CannotInvokeException.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/convert/TransformAccessArrayField.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/tools/reflect/Loader.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/compiler/ast/Expr.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/compiler/CodeGen.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/bytecode/stackmap/TypeTag.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/CtPrimitiveType.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/Proxy.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/compiler/ast/CastExpr.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/bytecode/FieldInfo.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/compiler/ast/Stmnt.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/tools/rmi/StubGenerator.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/scopedpool/ScopedClassPoolRepository.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/util/proxy/ProxyObject.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/bytecode/StackMap.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
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jar/javassist/bytecode/stackmap/TypeData.java

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jar/javassist/tools/rmi/RemoteRef.java

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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/compiler/ast/Visitor.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/compiler/AccessorMaker.java

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jar/javassist/util/proxy/ProxyFactory.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/bytecode/stackmap/BasicBlock.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/compiler/ast/CallExpr.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/CtNewWrappedMethod.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/bytecode/ByteStream.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/compiler/JvstCodeGen.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/URLClassPath.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/bytecode/ConstantAttribute.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/util/HotSwapper.java
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jar/javassist/bytecode/analysis/ControlFlow.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/compiler/SymbolTable.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/bytecode/ClassFileWriter.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/CtArray.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/CtMember.java
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/runtime/Desc.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/BinExpr.java
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/CodeAnalyzer.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/Analyzer.java
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1.46 spring-tx 4.3.19.RELEASE

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* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/SmartTransactionObject.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/context/SpringContextResourceAdapter.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/work/jboss/JBossWorkManagerTaskExecutor.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/interceptor/NameMatchTransactionAttributeSource.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/interceptor/MatchAlwaysTransactionAttributeSource.java
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*/

Found in path(s):
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/annotation/TransactionManagementConfigurer.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/SimpleTransactionScope.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/core/InteractionCallback.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/TransactionCallback.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/work/WorkManagerTaskExecutor.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/jta/JtaTransactionObject.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/core/ConnectionCallback.java

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

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*/

Found in path(s):
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/TransactionStatus.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/JtaTransactionAnnotationParser.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/event/TransactionalEventListenerFactory.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/support/TransactionTemplate.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/jta/JtaTransactionManager.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/support/AbstractTransactionStatus.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/support/DefaultTransactionStatus.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/support/SimpleTransactionStatus.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-

jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java

* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/interceptor/DefaultTransactionAttribute.java

* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java

* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/Transactional.java

* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/Ejb3TransactionAnnotationParser.java

* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/TransactionManagementConfigurationSelector.java

* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/support/DefaultTransactionDefinition.java

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```
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 * limitations under the License.
 */
```

Found in path(s):

* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/jca/cci/core/CciOperations.java

* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/support/ResourceHolder.java

1.47 istack-commons-runtime 3.0.7

1.47.1 Available under license :

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1.48 xz 1.5

1.48.1 Available under license :

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/*
* 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/1110910299_1606872234.69/0/xz-1-5-sources-2-
jar/org/tukaani/xz/FinishableWrapperOutputStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/DeltaDecoder.java
* /opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/delta/DeltaDecoder.java
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/*
* 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/1110910299_1606872234.69/0/xz-1-5-sources-2-
jar/org/tukaani/xz/SeekableFileInputStream.java
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/*
* 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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/LZMA2Decoder.java
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```
/*
 * 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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/XZIOException.java
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```
/*
 * 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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/DeltaInputStream.java
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```
/*
 * 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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/index/IndexEncoder.java
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```
/*
 * 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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/check/SHA256.java
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```
/*
 * 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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/index/IndexRecord.java
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```
/*
 * 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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/DeltaOptions.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/DeltaCoder.java
* /opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/delta/DeltaCoder.java
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```
/*
 * 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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/simple/ARM.java
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```
/*
* 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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/IA64Options.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/CountingOutputStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-

jar/org/tukaani/xz/rangecoder/RangeEncoder.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/1110910299_1606872234.69/0/xz-1-5-sources-2-
jar/org/tukaani/xz/IndexIndicatorException.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/DeltaOutputStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/BCJOptions.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/simple/X86.java
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```
/*
* 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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/XZFormatException.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/1110910299_1606872234.69/0/xz-1-5-sources-2-
jar/org/tukaani/xz/FinishableOutputStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-

jar/org/tukaani/xz/lzma/LZMAEncoderFast.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/1110910299_1606872234.69/0/xz-1-5-sources-2-
jar/org/tukaani/xz/UncompressedLZMA2OutputStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/simple/IA64.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/BCJEncoder.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/LZMA2Coder.java
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/*
* 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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/check/CRC32.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lz/Hash234.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/1110910299_1606872234.69/0/xz-1-5-sources-2-

jar/org/tukaani/xz/rangecoder/RangeDecoderFromBuffer.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/SimpleInputStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lzma/State.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/common/DecoderUtil.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/LZMA2OutputStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lz/HC4.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/XZ.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lz/LZEncoder.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/RawCoder.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/SimpleOutputStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/SingleXZInputStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lz/CRC32Hash.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/DeltaEncoder.java
* /opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/delta/DeltaEncoder.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/1110910299_1606872234.69/0/xz-1-5-sources-2-
jar/org/tukaani/xz/rangecoder/RangeDecoderFromStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/LZMA2Encoder.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lz/LZDecoder.java
No license file was found, but licenses were detected in source scan.

/*
 * UnsupportedOptionsException
 *
 * 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/1110910299_1606872234.69/0/xz-1-5-sources-2-
jar/org/tukaani/xz/UnsupportedOptionsException.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/common/Util.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/simple/ARMThumb.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/BlockOutputStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/SPARCOptions.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/XZOutputStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-
jar/org/tukaani/xz/lzma/LZMAEncoderNormal.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/SeekableInputStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/index/IndexDecoder.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lz/Matches.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/CountingInputStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/BCJCoder.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/check/None.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/index/BlockInfo.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lzma/LZMACoder.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/simple/PowerPC.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/index/IndexBase.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/PowerPCOptions.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/LZMA2InputStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/FilterEncoder.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/LZMAInputStream.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/check/CRC64.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/simple/SPARC.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/rangecoder/RangeCoder.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lzma/LZMAEncoder.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/MemoryLimitException.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/ARMOptions.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/FilterDecoder.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lz/BT4.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/simple/SimpleFilter.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lzma/Optimum.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/check/Check.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:
*
* Full support for the .xz file format specification version 1.0.4
* Single-threaded streamed compression and decompression
* Single-threaded decompression with limited random access support
* Raw streams (no .xz headers) for advanced users, including LZMA2
*   with preset dictionary
*
* <p>
* Threading is planned but it is unknown when it will be implemented.
* <p>
* For the latest source code, see the
* home page of XZ for Java.
*
* <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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/package-info.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/1110910299_1606872234.69/0/xz-1-5-sources-2-
jar/org/tukaani/xz/rangecoder/RangeDecoder.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/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/common/StreamFlags.java
No license file was found, but licenses were detected in source scan.

/*
* FilterCoder
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
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*/

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* /opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/FilterCoder.java
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```
/*
 * BlockInputStream
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
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 */
```

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* /opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/BlockInputStream.java
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```
/*
 * EncoderUtil
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
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 */
```

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```
/*
 * XZInputStream
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
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 */
```

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```
/*
 * LZMA2Options
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
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 */
```

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```
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 * X86Options
 *
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 *
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 */
```

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```
/*
 * IndexHash
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
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 */
```

Found in path(s):

* /opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/index/IndexHash.java

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```
/*
 * CorruptedInputException
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
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 */
```

Found in path(s):

* /opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/CorruptedInputException.java

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```
/*
 * FilterOptions
 *
 * Authors: Lasse Collin <lasse.collin@tukaani.org>
```

```
*        Igor Pavlov <http://7-zip.org/>
*
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*/
```

Found in path(s):
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```
/*
* SeekableXZInputStream
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
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*/
```

Found in path(s):
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jar/org/tukaani/xz/SeekableXZInputStream.java
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```
/*
* LZMADecoder
*
* Authors: Lasse Collin <lasse.collin@tukaani.org>
*          Igor Pavlov <http://7-zip.org/>
*
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*/
```

Found in path(s):
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```
/*
* BCJDecoder
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
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*/
```

Found in path(s):

* /opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/BCJDecoder.java

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/*
* ARMThumbOptions
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
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*/

Found in path(s):
* /opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/ARMThumbOptions.java

1.49 kryo 2.17

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Found in path(s):
* /opt/cola/permits/1138102365_1614220758.26/0/kryo-2-17-sources-1-
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

1.50 commons-beanutils 1.9.4

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1.51 owlapi-oboformat 4.2.7

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* /opt/cola/permits/1147791423_1617249353.83/0/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/GenericTypeAwarePropertyDescriptor.java
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* /opt/cola/permits/1147791423_1617249353.83/0/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/annotation/InitDestroyAnnotationBeanPostProcessor.java
* /opt/cola/permits/1147791423_1617249353.83/0/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/CustomBooleanEditor.java
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1.57 bson 3.12.4

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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

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

```
/*
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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/internal/UnsignedLongs.java

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

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-

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* /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
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonMinKeyCodec.java
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* /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
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* /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-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

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* /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

* /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-
jar/org/bson/LazyBSONCallback.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
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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-
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* /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-
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
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* /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

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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java

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* /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

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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/expression/method/MethodSecurityExpressionOperations.java

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/**

* Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).

* See http://iharder.net/base64 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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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-
jar/org/springframework/security/core/token/Token.java
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*/

/**

* Reviews the <code>Object</code> returned from a secure object invocation,

* being able to modify the <code>Object</code> 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 <code>Collection</code> elements.

* <p>

* Special consideration should be given to using an

* <code>AfterInvocationManager</code> on bean methods that modify a database.

* Typically an <code>AfterInvocationManager</code> is used with read-only

* methods, such as <code>public DomainObject getById(id)</code>. If used with

* methods that modify a database, a transaction manager should be used to

* ensure any <code>AccessDeniedException</code> 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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```
/**
 *
 * @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
 */
```

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jar/org/springframework/security/access/PermissionEvaluator.java
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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
 */
```

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jar/org/springframework/security/access/expression/SecurityExpressionOperations.java
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*/

/**

* Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest

Algorithm.

*

* @author Alan Stewart

*/

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jar/org/springframework/security/core/parameters/AnnotationParameterNameDiscoverer.java

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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
* /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
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/userdetails/User.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/userdetails/UserDetails.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/SecurityMetadataSource.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/dao/AbstractUserDetailsAuthenticationProvider.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/AbstractAuthenticationFailureEvent.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/LoginExceptionResolver.java
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jar/org/springframework/security/access/vote/AuthenticatedVoter.java
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jar/org/springframework/security/authentication/event/AuthenticationSuccessEvent.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityMetadataSourceAdvisor.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/annotation/Secured.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/InteractiveAuthenticationSuccessEvent.java
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jar/org/springframework/security/core/userdetails/memory/UserMapEditor.java
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jar/org/springframework/security/authentication/rcp/RemoteAuthenticationManagerImpl.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/ProviderNotFoundException.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/AuthenticationFailureDisabledEvent.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/JaasAuthenticationProvider.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/AccessDecisionManager.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/AnonymousAuthenticationProvider.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/encoding/BaseDigestPasswordEncoder.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/context/ThreadLocalSecurityContextHolderStrategy.java
* /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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* /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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* /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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* /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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* /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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* /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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* /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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* /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-

jar/org/springframework/security/authentication/rcp/RemoteAuthenticationManager.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/userdetails/UserCache.java
* /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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* /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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* /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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* /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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* /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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* /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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* /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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* /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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* /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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* /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-
jar/org/springframework/security/util/InMemoryResource.java
* /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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* /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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* /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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* /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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* /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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* /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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* /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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* /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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* /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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* /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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* /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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* /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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* /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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* /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-
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-
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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/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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jar/org/springframework/security/access/hierarchicalroles/UserDetailsWrapper.java
* /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-
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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/crypto/password/PasswordEncoder.java

* /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

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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/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-
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jar/org/springframework/security/crypto/bcrypt/BCryptPasswordEncoder.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/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

1.66 opencensus-contrib-grpc-metrics 0.10.0

1.67 websocket-servlet 9.3.27.v20190418

1.68 websocket-common 9.3.27.v20190418

1.69 netty-all 4.1.46.Final

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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/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/Cleaner.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/CleanerJava9.java

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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ControlFrameLimitEncoder.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameConnectionDecoder.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsReceivedConsumer.java
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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpNotificationHandler.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/worldclock/WorldClockProtocol.proto
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpMessage.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpServerChannel.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpChannelConfig.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/nio/NioSctpServerChannel.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/nio/NioSctpChannel.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpServerChannelConfig.java
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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtProvider.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-

jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java
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jar/io/netty/handler/codec/sctp/package-info.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/traffic/package-info.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java
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jar/io/netty/channel/udt/UdtChannel.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
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jar/io/netty/handler/codec/redis/InlineCommandRedisMessage.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;{@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/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/ChannelHandler.java
No license file was found, but licenses were detected in source scan.

```
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```

Found in path(s):

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java

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

/*

* 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.

* <p>

* 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/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-

jar/io/netty/handler/codec/base64/Base64.java

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Found in path(s):
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/kqueue/NativeLongArray.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/ThrowableUtil.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2PingFrame.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2SettingsFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2GoAwayFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2DataFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2ResetFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/BooleanSupplier.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/PemEncoded.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/Log4J2Logger.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/ReadOnlyHttp2Headers.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2GoAwayFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/package-info.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/redis/RedisClientHandler.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpResponseDecoder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2HeadersFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/NoopDnsCache.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpCommand.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/frame/server/Http2Server.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/RoundRobinDnsAddressResolverGroup.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/DateFormatter.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2DataFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ResetFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/flush/package-info.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/DuplexChannel.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStream.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/package-info.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueDatagramChannel.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/InboundHttpToHttp2Adapter.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/DefaultLastSmtpContent.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/ResourceLeakTracker.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/AbstractHttp2StreamFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/PeerCredentials.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/multiplex/server/Http2Server.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueChannelOption.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/PooledDuplicatedByteBuf.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DefaultDnsCache.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SessionTicketKey.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpRequests.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameCodec.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpResponse.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/MacAddressUtil.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/InflightNameResolver.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/haproxy/HAProxySSLTLV.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueChannel.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/ssl/OpenSslCertificateException.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/unix/SocketWritableByteChannel.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/NativeLibraryUtil.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/kqueue/BsdSocket.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/smtp/SmtpRequestEncoder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/PreferHeapByteBufAllocator.java

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jar/io/netty/channel/kqueue/KQueueEventArray.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameStreamException.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http2/Http2HeadersFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/smtp/SmtpContent.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueChannelConfig.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/DefaultSelectStrategyFactory.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http2/Http2SettingsFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/buffer/WrappedCompositeByteBuf.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/flow/package-
info.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/ConstantTimeUtils.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameStreamVisitor.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/PromiseCombiner.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/rxtx/RxtxDeviceAddress.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/sctp/SctpChannelOption.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/rxtx/RxtxChannelOption.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/package-
info.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/udt/UdtServerChannel.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/rxtx/RxtxChannel.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/rxtx/RxtxChannelConfig.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/oio/OioByteStreamChannel.java
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Found in path(s):
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/example/redis/RedisClient.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-

jar/io/netty/handler/codec/redis/ArrayRedisMessage.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/multiplex/server/Http2OrHttpHandler.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/ErrorRedisMessage.java

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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java

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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisEncoder.java

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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisConstants.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisMessageType.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/IntegerRedisMessage.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisArrayAggregator.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisMessagePool.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisCodecUtil.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/BulkStringHeaderRedisMessage.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/BulkStringRedisContent.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/frame/server/HelloWorldHttp2Handler.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-

jar/io/netty/handler/codec/redis/DefaultBulkStringRedisContent.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/example/http2/helloworld/frame/server/Http2OrHttpHandler.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/example/http2/helloworld/multiplex/server/HelloWorldHttp2Handler.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
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jar/io/netty/handler/codec/http/cors/CorsConfigBuilder.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.

    */

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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
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jar/io/netty/buffer/PoolChunkMetric.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/epoll/AbstractEpollServerChannel.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/HttpServer.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ClientAuth.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsNameResolverException.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQuery.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java

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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/CookieUtil.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/Http2RequestHandler.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsRawRecord.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/Http1RequestHandler.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/PriorityQueueNode.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/FallbackRequestHandler.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/HashingStrategy.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/HeadersUtils.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsQuestion.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsMessage.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java

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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddresses.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsResponseCode.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/FileDescriptor.java

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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/LongCounter.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java

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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/CharSequenceMap.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsOpCode.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/CookieEncoder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/PoolChunkListMetric.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/ShuffledDnsServerAddressStream.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnpooledSlicedByteBuf.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java

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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsResponse.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/CompositeNameResolver.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/EmptyHttpHeaders.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/AbstractHttp2ConnectionHandlerBuilder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/ChannelPool.java

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* Enumeration of supported Base64 dialects.

* <p>

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jar/io/netty/handler/codec/http2/Http2NoMoreStreamIdsException.java

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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseStatus.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheServerCodec.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/memcache/MemcacheObject.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameEncoder.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cors/package-info.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/UdtServerChannelConfig.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-

jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/memcache/AbstractMemcacheObject.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java
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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http/cors/CorsHandler.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/example/http/cors/OkResponseHandler.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http/cors/CorsConfig.java
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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ReferenceCountUpdater.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatBrokerHandler.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatClient.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/ChannelHandlerMask.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/TcpDnsQueryContext.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolConfig.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandshakeHandler.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatBroker.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/svm/package-info.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DatagramDnsQueryContext.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/address/package-info.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker13.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-

jar/io/netty/channel/ExtendedClosedChannelException.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/Hidden.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/CertificateCallbackTask.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolConfig.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatClientHandler.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/macos/MacOSDnsServerAddressStreamProvider.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakerFactory.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/AbstractHttp2StreamChannel.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/EventLoopTaskQueueFactory.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsAckFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java

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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker08.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ObjectPool.java

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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketCloseStatus.java

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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
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jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/ThreadExecutorMap.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/compression/Lz4XXHash32.java
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jar/io/netty/handler/codec/dns/TcpDnsResponseDecoder.java
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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.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>
 * lengthFieldOffset   = 0
 * lengthFieldLength   = 2
 * 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
* lengthAdjustment   = -3 (= the length of HDR1 + LEN, negative)
* initialBytesToStrip = 3
*
* 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/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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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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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http2/HttpConversionUtil.java

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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/InternalLogger.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-

jar/io/netty/util/internal/logging/CommonsLogger.java
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jar/io/netty/util/internal/shaded/org/jctools/maps/ConcurrentAutoTable.java
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* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/InternalAPI.java
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1.70 semargl-rdf 0.6.1

1.71 jcip-annotation 1.0-1

1.72 json-simple 1.1.1

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1.73 asm-all-repackaged 2.5.0-b05

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/**
  * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
  * constructor</i>. 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.
 */
```

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/**
  * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
  * constructor</i>. 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.
  */

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/**
 * 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.
 */
```

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/**
  * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
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  * version.
  *
  * @throws IllegalStateException
  *           If a subclass calls this constructor.
  */


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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 <code>MethodVisitor</code> to send the resulting inlined
   *   method code to (use <code>null</code> 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 <tt>null</tt>.
   * @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.
   */

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* /opt/cola/permits/1111264248_1606891424.56/0/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/JSRInlinerAdapter.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 fist 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.
*/
```

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jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/shrink-frames.properties
* /opt/cola/permits/1111264248_1606891424.56/0/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/shrink-resize.properties
* /opt/cola/permits/1111264248_1606891424.56/0/asm-all-repackaged-2-5-0-b05-sources-1-
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1.74 drools-compiler 6.5.0.Final

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jar/org/drools/compiler/lang/api/impl/EnumLiteralDescrBuilderImpl.java
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jar/org/drools/compiler/lang/api/EnumDeclarationDescrBuilder.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
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* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/AbstractClassTypeDeclarationDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/compiler/BaseKnowledgeBuilderResultImpl.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/QualifiedName.java
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jar/org/drools/compiler/lang/api/impl/TypeDeclarationDescrBuilderImpl.java
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jar/org/drools/compiler/lang/DRL6Parser.java
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jar/org/drools/compiler/lang/DroolsParserExceptionFactory.java
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* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/mvel/MVELEvalBuilder.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/AccumulateImportDescr.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/dsl/DSLMappingEntry.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/dsl/DSLMappingFile.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/GroupElementBuilder.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/java/JavaRuleClassBuilder.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/ImportDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/RuleConditionBuilder.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/dsl/DefaultDSLMapping.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/dsl/AntlrDSLMappingEntry.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/java/JavaAccumulateBuilder.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/PatternBuilder.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/ForallBuilder.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/GlobalDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/ForallDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/mvel/MVELFromBuilder.java
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*/

package foo

expander foo

```
rule "new rule"
  activation-group "boo"
  when
    line 1
    line 2
  then
    line 3
end
```

Found in path(s):
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/dsl/rule1.drl
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jar/org/drools/compiler/compiler/xml/XmlDumper.java
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* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/builder/impl/KnowledgeBuilderImpl.java
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* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/compiler/ConfigurableSeverityResult.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/compiler/DuplicateFunction.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/compiler/DuplicateProcess.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/compiler/DuplicateRule.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/compiler/DroolsErrorWrapper.java
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* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/FromDescr.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/RestrictionConnectiveDescr.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/FieldTemplateDescr.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/ConnectiveDescr.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/DroolsToken.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/osgi/Activator.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/MVELExprDescr.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/kie/builder/impl/KieModuleCacheHelper.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/DeclarativeInvokerDescr.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/compiler/ProcessBuilderFactoryService.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/AccessorDescr.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/FactTemplateDescr.java

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jar/org/drools/compiler/lang/descr/PatternDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/QualifiedIdentifierRestrictionDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/FieldConstraintDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/PredicateDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/RestrictionDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/BindingDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/LiteralRestrictionDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/ParseException.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/OrDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/CollectDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/ExprConstraintDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/QueryDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/VariableRestrictionDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/FunctionDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/NotDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/ExpanderException.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/Restriction.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/ReturnValueRestrictionDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/dsl/MappingError.java
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* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/TypeDeclarationCache.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/TypeDeclarationBuilder.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/GuidedScoreCardFactory.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/KieRepositoryImpl.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/ClassHierarchyManager.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/FieldDescrBuilderImpl.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/GuidedDecisionTableFactory.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ResourceConversionResult.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/GuidedScoreCardProvider.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/GuidedDecisionTableProvider.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/TypeDeclarationConfigurator.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/ClassDefinitionFactory.java
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jar/org/drools/compiler/compiler/GuidedRuleTemplateFactory.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/kproject/xml/DependencyFilter.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/kproject/models/RuleTemplateModelImpl.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/Annotated.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
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jar/org/drools/compiler/lang/Location.java
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jar/org/drools/compiler/lang/descr/AttributeDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/compiler/xml/rules/RuleHandler.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/dsl/DefaultExpanderResolver.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/RuleBuilder.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/ExistsDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/EvalDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/compiler/xml/rules/ForallHandler.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/AccumulateHelperHandler.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/PatternHandler.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DescrBuildError.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/JavaExprAnalyzer.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/ExpressionHandler.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/BaseDescr.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/PredicateHandler.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/DefaultExpander.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/NotHandler.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ImportError.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/ExistsHandler.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/ReturnValueRestrictionHandler.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/AndHandler.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DroolsParserException.java

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* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compilers/JavaCompilerSettings.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compilers/JavaCompiler.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compilers/CompilationResult.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compilers/JavaCompilerFactory.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/problems/CompilationProblem.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compilers/JaninoJavaCompilerSettings.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compilers/JaninoJavaCompiler.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compilers/AbstractJavaCompiler.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compilers/JaninoCompilationProblem.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compilers/EclipseCompilationProblem.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/problems/CompilationProblemHandler.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/readers/ResourceReader.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compilers/EclipseJavaCompilerSettings.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/stores/ResourceStore.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/readers/MemoryResourceReader.java
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* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/PatternSourceDescr.java

* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
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1.75 grpc-netty 1.9.0

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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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* /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
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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-
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jar/io/grpc/netty/AbstractHttp2Headers.java
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* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyServer.java

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jar/io/grpc/netty/NettyWritableBufferAllocator.java
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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
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jar/io/grpc/netty/NettyClientStream.java
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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

1.76 commons-pool 2.4.3

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1.77 xsom 20110809

1.78 object-cache-api 0.8.3-SNAPSHOT

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Found in path(s):

* /opt/cola/permits/1069084066_1685508930.9657001/0/object-cache-api-0-8-3-jar/META-

INF/maven/org.opendaylight.yangtools/object-cache-api/pom.xml

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Manifest-Version: 1.0

Bnd-LastModified: 1466334168997

Build-Jdk: 1.7.0_91

Built-By: jenkins

Bundle-DocURL: https://www.opendaylight.org

Bundle-License: https://www.eclipse.org/legal/epl-v10.html

Bundle-ManifestVersion: 2

Bundle-Name: object-cache-api

Bundle-SymbolicName: org.opendaylight.yangtools.object-cache-api

Bundle-Vendor: OpenDaylight

Bundle-Version: 0.8.3.SNAPSHOT

Created-By: Apache Maven Bundle Plugin

Export-Package: org.opendaylight.yangtools.objcache.spi;version="0.8.3";
uses:="com.google.common.base,com.google.common.cache,javax.annotation,
org.opendaylight.yangtools.concepts,org.opendaylight.yangtools.objcache
",org.opendaylight.yangtools.objcache;version="0.8.3";uses:="javax.anno
tation,org.opendaylight.yangtools.concepts"

Import-Package: org.opendaylight.yangtools.objcache.impl;resolution:=opt
ional,com.google.common.base;version="[18.0,19)",com.google.common.cach
e;version="[18.0,19)",javax.annotation,org.opendaylight.yangtools.conce
pts;version="[0.8,1)",org.opendaylight.yangtools.objcache;version="[0.8
,1)",org.opendaylight.yangtools.objcache.spi;version="[0.8,1)",org.slf4
j;version="[1.7,2)"

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"

Tool: Bnd-3.0.0.201509101326

Found in path(s):

* /opt/cola/permits/1069084066_1685508930.9657001/0/object-cache-api-0-8-3-jar/META-INF/MANIFEST.MF

1.79 spring-security-taglibs 3.2.4.RELEASE

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* /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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* /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
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* /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

1.80 jcommander 1.30

1.81 apache-commons-text 1.9

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1.82 sesame-rio-rdfjson 2.7.16

1.83 xml-apis 1.4.01

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* /opt/cola/permits/1095510544_1601467137.06/0/drools-osgi-integration-6-5-0-final-sources-1-jar/org/drools/osgi/spring/OsgiKModuleBeanFactoryPostProcessor.java

* /opt/cola/permits/1095510544_1601467137.06/0/drools-osgi-integration-6-5-0-final-sources-1-jar/org/drools/osgi/compiler/OsgiKieModule.java

* /opt/cola/permits/1095510544_1601467137.06/0/drools-osgi-integration-6-5-0-final-sources-1-jar/org/drools/osgi/spring/OsgiApplicationContextFactory.java

1.85 jackson-jaxrs-xml-provider 2.10.4

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* /opt/cola/permits/1110678819_1606842841.02/0/spring-cloud-circuitbreaker-spring-retry-1-0-3-release-sources-jar/org/springframework/cloud/circuitbreaker/springretry/SpringRetryCircuitBreakerFactory.java

* /opt/cola/permits/1110678819_1606842841.02/0/spring-cloud-circuitbreaker-spring-retry-1-0-3-release-sources-jar/org/springframework/cloud/circuitbreaker/springretry/SpringRetryAutoConfiguration.java

* /opt/cola/permits/1110678819_1606842841.02/0/spring-cloud-circuitbreaker-spring-retry-1-0-3-release-sources-jar/org/springframework/cloud/circuitbreaker/springretry/SpringRetryConfigBuilder.java

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1.87 stax-api 4.2

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1.89 jzlib 1.0.7

1.90 jetty-xml 9.3.27.v20190418

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1.92 sesame-rio-api 2.7.16

1.93 httpclient-cache 4.2.5

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1.102 commons-codec 1.9

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1.103 spring-boot-autoconfigure 1.5.12.RELEASE

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jar/org/springframework/boot/autoconfigure/template/TemplateLocation.java
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jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchRepositoriesAutoConfiguration.java
* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchRepositoriesRegistrar.java
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jar/org/springframework/boot/autoconfigure/jackson/JacksonAutoConfiguration.java
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* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/gson/package-info.java
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* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mail/MailProperties.java
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1.104 spring-bridge 2.5.0-b05

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1.106 antlr-runtime 3.5.2

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jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
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jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java
* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-

jar/org/springframework/aop/support/annotation/AnnotationMatchingPointcut.java
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jar/org/springframework/aop/interceptor/JamonPerformanceMonitorInterceptor.java
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jar/org/springframework/aop/framework/ProxyFactoryBean.java
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* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/AspectJAdviceParameterNameDiscoverer.java
* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-
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* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-
jar/org/aopalliance/aop/AspectException.java
* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/AspectJExpressionPointcut.java

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* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java
* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java
* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/annotation/LazySingletonAspectInstanceFactoryDecorator.java
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* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAspectJAutoProxyCreator.java
* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java
* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/dynamic/AbstractRefreshableTargetSource.java
* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
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* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java
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jar/org/springframework/aop/BeforeAdvice.java
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jar/org/springframework/aop/ClassFilter.java
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jar/org/springframework/aop/RawTargetAccess.java
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jar/org/springframework/aop/IntroductionInterceptor.java
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jar/org/springframework/aop/framework/AdvisorChainFactory.java
* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/target/ThreadLocalTargetSource.java
* /opt/cola/permits/1147791627_1617249309.89/0/spring-aop-4-3-19-release-sources-3-
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1.120 spring-osgi-io 1.2.1

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1.121 opentracing-spring-web 0.3.2

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1.122 spring-instrument 4.3.19.RELEASE

1.122.1 Available under license :

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* /opt/ws_local/PERMITS_SQL/1069084041_1594483085.89/0/spring-instrument-4-3-19-release-sources-
jar/org/springframework/instrument/InstrumentationSavingAgent.java

1.123 jetty-client 9.3.27.v20190418

1.124 xstream 1.2.2

1.125 metrics-servlets 4.1.0

1.126 jaeger-core 0.28.0
1.126.1 Available under license :

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jar/io/jaegertracing/metrics/NoopMetricsFactory.java

* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/propagation/Codec.java

* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-

jar/io/jaegertracing/metrics/InMemoryMetricsFactory.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/metrics/MetricsFactory.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/propagation/CompositeCodec.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
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/propagation/B3TextMapCodec.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/baggage/BaggageSetter.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/utils/Java6CompatibleThreadLocalRandom.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
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
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/baggage/BaggageRestrictionManagerProxy.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
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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jar/io/jaegertracing/PropagationRegistry.java
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jar/io/jaegertracing/Constants.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/samplers/GuaranteedThroughputSampler.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/utils/Http.java
* /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

* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/EmptyIpException.java

* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/SenderException.java

* /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-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/PrefixedKeys.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-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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1.127 semargl-rdfa 0.6.1

1.128 minimal-json 0.9.4

1.129 swagger-springmvc 0.8.8

1.130 stax-api 1.0.1

1.130.1 Available under license :

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```
/**
 * An interface for handling Entity events.
 *
 * This event reports entities that have not been resolved
 * and reports their replacement text unprocessed (if
 * available).  This event will be reported if javax.xml.stream.isReplacingEntityReferences
 * is set to false.  If javax.xml.stream.isReplacingEntityReferences is set to true
```

* entity references will be resolved transparently.
*
* Entities are handled in two possible ways:
*
* (1) If javax.xml.stream.isReplacingEntityReferences is set to true
* all entity references are resolved and reported as markup transparently.
* (2) If javax.xml.stream.isReplacingEntityReferences is set to false
* Entity references are reported as an EntityReference Event.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/EntityReference.java
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/**
* This interface is used to resolve resources during an XML parse. If an application wishes to
* perform custom entity resolution it must register an instance of this interface with
* the XMLInputFactory using the setXMLResolver method.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/XMLResolver.java
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/**
* An error class for reporting factory configuration errors.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/FactoryConfigurationError.java
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/**
* This interface defines a class that allows a user to register
* a way to allocate events given an XMLStreamReader. An implementation
* is not required to use the XMLEventFactory implementation but this

* is recommended. The XMLEventAllocator can be set on an XMLInputFactory
* using the property "javax.xml.stream.allocator"
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see javax.xml.stream.XMLInputFactory
* @see javax.xml.stream.XMLEventFactory
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/util/XMLEventAllocator.java
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/**
* This is the base event interface for handling markup events.
* Events are value objects that are used to communicate the
* XML 1.0 InfoSet to the Application. Events may be cached
* and referenced after the parse has completed.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see javax.xml.stream.XMLEventReader
* @see Characters
* @see ProcessingInstruction
* @see StartElement
* @see EndElement
* @see StartDocument
* @see EndDocument
* @see EntityReference
* @see EntityDeclaration
* @see NotationDeclaration
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/XMLEvent.java
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/**
* An interface for handling Notation Declarations
*
* Receive notification of a notation declaration event.
* It is up to the application to record the notation for later reference,
* At least one of publicId and systemId must be non-null.
* There is no guarantee that the notation declaration
* will be reported before any unparsed entities that use it.
*

* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/

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/**
*
* This is the top level interface for parsing XML Events. It provides
* the ability to peek at the next event and returns configuration
* information through the property interface.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see XMLInputFactory
* @see XMLEventWriter
*/

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zip/src/javax/xml/stream/XMLEventReader.java
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/**
* Defines an abstract implementation of a factory for getting streams.
*
* The following table defines the standard properties of this specification.
* Each property varies in the level of support required by each implementation.
* The level of support required is described in the 'Required' column.
*
*   <table border="2" rules="all" cellpadding="4">
*   <thead>
*   <tr>
*   <th align="center" colspan="5">
*   Configuration parameters
*   </th>
*   </tr>
*   </thead>
*   <tbody>
*   <tr>
*   <th>Property Name</th>
*   <th>Behavior</th>
*   <th>Return type</th>
*   <th>Default Value</th>
*   <th>Required</th>

```
*     </tr>
* <tr><td>javax.xml.stream.isValidating</td><td>Turns on/off implementation specific DTD
validation</td><td>Boolean</td><td>False</td><td>No</td></tr>
* <tr><td>javax.xml.stream.isNamespaceAware</td><td>Turns on/off namespace processing for XML 1.0
support</td><td>Boolean</td><td>True</td><td>True (required) / False (optional)</td></tr>
* <tr><td>javax.xml.stream.isCoalescing</td><td>Requires the processor to coalesce adjacent character
data</td><td>Boolean</td><td>False</td><td>Yes</td></tr>
* <tr><td>javax.xml.stream.isReplacingEntityReferences</td><td>replace internal entity references with their
replacement text and report them as characters</td><td>Boolean</td><td>True</td><td>Yes</td></tr>
*<tr><td>javax.xml.stream.isSupportingExternalEntities</td><td>Resolve external parsed
entities</td><td>Boolean</td><td>Unspecified</td><td>Yes</td></tr>
*<tr><td>javax.xml.stream.supportDTD</td><td>Use this property to request processors that do not support
DTDs</td><td>Boolean</td><td>True</td><td>Yes</td></tr>
*<tr><td>javax.xml.stream.reporter</td><td>sets/gets the impl of the XMLReporter
</td><td>javax.xml.stream.XMLReporter</td><td>Null</td><td>Yes</td></tr>
*<tr><td>javax.xml.stream.resolver</td><td>sets/gets the impl of the XMLResolver
interface</td><td>javax.xml.stream.XMLResolver</td><td>Null</td><td>Yes</td></tr>
*<tr><td>javax.xml.stream.allocator</td><td>sets/gets the impl of the XMLEventAllocator
interface</td><td>javax.xml.stream.util.XMLEventAllocator</td><td>Null</td><td>Yes</td></tr>
*     </tbody>
*   </table>
*
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see XMLOutputFactory
* @see XMLEventReader
* @see XMLStreamReader
* @see EventFilter
* @see XMLReporter
* @see XMLResolver
* @see javax.xml.stream.util.XMLEventAllocator
*/
```

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/XMLInputFactory.java
No license file was found, but licenses were detected in source scan.

```
/**
* The XMLStreamWriter interface specifies how to write XML.  The XMLStreamWriter  does
* not perform well formedness checking on its input.  However
* the writeCharacters method is required to escape &amp; , &lt; and &gt;
* For attribute values the writeAttribute method will escape the
* above characters plus &quot; to ensure that all character content
* and attribute values are well formed.
*
* Each NAMESPACE
```

* and ATTRIBUTE must be individually written.
*
* If javax.xml.stream.isPrefixDefaulting is set to false it is a fatal error if an element
* is written with namespace URI that has not been bound to a prefix.
*
* If javax.xml.stream.isPrefixDefaulting is set to true the XMLStreamWriter implementation
* must write a prefix for each unbound URI that it encounters in the
* current scope.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see XMLOutputFactory
* @see XMLStreamReader
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/XMLStreamWriter.java
No license file was found, but licenses were detected in source scan.

/**
* The StartElement interface provides access to information about
* start elements. A StartElement is reported for each Start Tag
* in the document.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/StartElement.java
No license file was found, but licenses were detected in source scan.

/**
* An interface for handling Entity Declarations
*
* This interface is used to record and report unparsed entity declarations.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/EntityDeclaration.java
No license file was found, but licenses were detected in source scan.

```
/**
* This interface is used to report non-fatal errors.
* Only warnings should be echoed through this interface.
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/XMLReporter.java
No license file was found, but licenses were detected in source scan.

```
/**
* Provides information on the location of an event.
*
* All the information provided by a Location is optional.  For example
* an application may only report line numbers.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-zip/src/javax/xml/stream/Location.java
No license file was found, but licenses were detected in source scan.

```
/**
* This interface declares a simple filter interface that one can
* create to filter XMLEventReaders
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-zip/src/javax/xml/stream/EventFilter.java
No license file was found, but licenses were detected in source scan.

```
/**
* This interface defines an event consumer interface.  The contract of the
* of a consumer is to accept the event.  This interface can be used to
* mark an object as able to receive events.  Add may be called several
* times in immediate succession so a consumer must be able to cache
* events it hasn't processed yet.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-zip/src/javax/xml/stream/util/XMLEventConsumer.java

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

```
/**
 *
 * This is the top level interface for writing XML documents.
 *
 * Instances of this interface are not required to validate the
 * form of the XML.
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 * @see XMLEventReader
 * @see javax.xml.stream.events.XMLEvent
 * @see javax.xml.stream.events.Characters
 * @see javax.xml.stream.events.ProcessingInstruction
 * @see javax.xml.stream.events.StartElement
 * @see javax.xml.stream.events.EndElement
 */
```

Found in path(s):

* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-zip/src/javax/xml/stream/XMLEventWriter.java

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

```
/**
 * This interface defines a utility class for creating instances of
 * XMLEvents
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 * @see javax.xml.stream.events.StartElement
 * @see javax.xml.stream.events.EndElement
 * @see javax.xml.stream.events.ProcessingInstruction
 * @see javax.xml.stream.events.Comment
 * @see javax.xml.stream.events.Characters
 * @see javax.xml.stream.events.StartDocument
 * @see javax.xml.stream.events.EndDocument
 * @see javax.xml.stream.events.DTD
 */
```

Found in path(s):

* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-zip/src/javax/xml/stream/XMLEventFactory.java

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

```
/**
```

* An interface for the end element event. An EndElement is reported
* for each End Tag in the document.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see XMLEvent
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/EndElement.java
No license file was found, but licenses were detected in source scan.

/**
* This is the base class for deriving an XMLStreamReader filter
*
* This class is designed to sit between an XMLStreamReader and an
* application's XMLStreamReader.   By default each method
* does nothing but call the corresponding method on the
* parent interface.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see javax.xml.stream.XMLStreamReader
* @see EventReaderDelegate
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/util/StreamReaderDelegate.java
No license file was found, but licenses were detected in source scan.

/**
* This is the base class for deriving an XMLEventReader
* filter.
*
* This class is designed to sit between an XMLEventReader and an
* application's XMLEventReader. By default each method
* does nothing but call the corresponding method on the
* parent interface.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see javax.xml.stream.XMLEventReader
* @see StreamReaderDelegate
*/

Found in path(s):

* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-zip/src/javax/xml/stream/util/EventReaderDelegate.java
No license file was found, but licenses were detected in source scan.

```
/**
* An interface that contains information about an attribute.  Attributes are reported
* as a set of events accessible from a StartElement.  Other applications may report
* Attributes as first-order events, for example as the results of an XPath expression.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see StartElement
*/
```

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-zip/src/javax/xml/stream/events/Attribute.java
No license file was found, but licenses were detected in source scan.

```
/**
* Defines an abstract implementation of a factory for
* getting XMLEventWriters and XMLStreamWriters.
*
* The following table defines the standard properties of this specification.
* Each property varies in the level of support required by each implementation.
* The level of support required is described in the 'Required' column.
*
*     <table border="2" rules="all" cellpadding="4">
*     <thead>
*      <tr>
*       <th align="center" colspan="2">
*        Configuration parameters
*       </th>
*      </tr>
*     </thead>
*     <tbody>
*      <tr>
*       <th>Property Name</th>
*       <th>Behavior</th>
*       <th>Return type</th>
*       <th>Default Value</th>
*       <th>Required</th>
*          </tr>
*        <tr><td>javax.xml.stream.isRepairingNamespaces</td><td>defaults prefixes on the output
side</td><td>Boolean</td><td>False</td><td>Yes</td></tr>
*     </tbody>
*   </table>
*
```

```
* <p>The following paragraphs describe the namespace and prefix repair algorithm:</p>
*
* <p>The property can be set with the following code line:
* <code>setProperty("javax.xml.stream.isRepairingNamespaces",new Boolean(true|false));</code></p>
*
* <p>This property specifies that the writer default namespace prefix declarations.
* The default value is false. </p>
*
* <p>If a writer isRepairingNamespaces it will create a namespace declaration
* on the current StartElement for
* any attribute that does not
* currently have a namespace declaration in scope.  If the StartElement
* has a uri but no prefix specified a prefix will be assigned, if the prefix
* has not been declared in a parent of the current StartElement it will be declared
* on the current StartElement.  If the defaultNamespace is bound and in scope
* and the default namespace matches the URI of the attribute or StartElement
* QName no prefix will be assigned.</p>
*
* <p>If an element or attribute name has a prefix, but is not
* bound to any namespace URI, then the prefix will be removed
* during serialization.</p>
*
* <p>If element and/or attribute names in the same start or
* empty-element tag are bound to different namespace URIs and
* are using the same prefix then the element or the first
* occurring attribute retains the original prefix and the
* following attributes have their prefixes replaced with a
* new prefix that is bound to the namespace URIs of those
* attributes. </p>
*
* <p>If an element or attribute name uses a prefix that is
* bound to a different URI than that inherited from the
* namespace context of the parent of that element and there
* is no namespace declaration in the context of the current
* element then such a namespace declaration is added. </p>
*
* <p>If an element or attribute name is bound to a prefix and
* there is a namespace declaration that binds that prefix
* to a different URI then that namespace declaration is
* either removed if the correct mapping is inherited from
* the parent context of that element, or changed to the
* namespace URI of the element or attribute using that prefix.</p>
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see XMLInputFactory
* @see XMLEventWriter
* @see XMLStreamWriter
```

*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/XMLOutputFactory.java
No license file was found, but licenses were detected in source scan.

/**
* A marker interface for the end of the document
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/EndDocument.java
No license file was found, but licenses were detected in source scan.

/**
* This is the top level interface for events dealing with DTDs
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/DTD.java
No license file was found, but licenses were detected in source scan.

/**
* An interface that describes the data found in processing instructions
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/ProcessingInstruction.java
No license file was found, but licenses were detected in source scan.

/**
* The base exception for unexpected processing errors. This Exception
* class is used to report well-formedness errors as well as unexpected
* processing conditions.
* @version 1.0

* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/XMLStreamException.java
No license file was found, but licenses were detected in source scan.

/**
* An interface for comment events
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/Comment.java
No license file was found, but licenses were detected in source scan.

/**
* This interface declares a simple filter interface that one can
* create to filter XMLStreamReaders
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/StreamFilter.java
No license file was found, but licenses were detected in source scan.

/**
* An interface that contains information about a namespace.
* Namespaces are accessed from a StartElement.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see StartElement
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/Namespace.java
No license file was found, but licenses were detected in source scan.

/**
* This describes the interface to Characters events.

* All text events get reported as Characters events.
* Content, CData and whitespace are all reported as
* Characters events. IgnorableWhitespace, in most cases,
* will be set to false unless an element declaration of element
* content is present for the current element.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/Characters.java
No license file was found, but licenses were detected in source scan.

/**
* An interface for the start document event
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/StartDocument.java
No license file was found, but licenses were detected in source scan.

/**
* The XMLStreamReader interface allows forward, read-only access to XML.
* It is designed to be the lowest level and most efficient way to
* read XML data.
*
* <p> The XMLStreamReader is designed to iterate over XML using
* next() and hasNext(). The data can be accessed using methods such as getEventType(),
* getNamespaceURI(), getLocalName() and getText();
*
* <p> The next() method causes the reader to read the next parse event.
* The next() method returns an integer which identifies the type of event just read.
* <p> The event type can be determined using getEventType().
* <p> Parsing events are defined as the XML Declaration, a DTD,
* start tag, character data, white space, end tag, comment,
* or processing instruction. An attribute or namespace event may be encountered
* at the root level of a document as the result of a query operation.
*
* <p>For XML 1.0 compliance an XML processor must pass the
* identifiers of declared unparsed entities, notation declarations and their
* associated identifiers to the application. This information is
* provided through the property API on this interface.

```
 * The following two properties allow access to this information:
 * javax.xml.stream.notations and javax.xml.stream.entities.
 * When the current event is a DTD the following call will return a
 * list of Notations
 *  <code>List l = (List) getProperty("javax.xml.stream.notations");</code>
 * The following call will return a list of entity declarations:
 * <code>List l = (List) getProperty("javax.xml.stream.entities");</code>
 * These properties can only be accessed during a DTD event and
 * are defined to return null if the information is not available.
 *
 * <p>The following table describes which methods are valid in what state.
 * If a method is called in an invalid state the method will throw a
 * java.lang.IllegalStateException.
 *
 * <table border="2" rules="all" cellpadding="4">
 *   <thead>
 *     <tr>
 *       <th align="center" colspan="2">
 *         Valid methods for each state
 *       </th>
 *     </tr>
 *   </thead>
 *   <tbody>
 *     <tr>
 *       <th>Event Type</th>
 *       <th>Valid Methods</th>
 *     </tr>
 *     <tr>
 *       <td> All States  </td>
 *       <td> getProperty(), hasNext(), require(), close(),
 *          getNamespaceURI(), isStartElement(),
 *          isEndElement(), isCharacters(), isWhiteSpace(),
 *          getNamespaceContext(), getEventType(),getLocation(),
 *          hasText(), hasName()
 *       </td>
 *     </tr>
 *     <tr>
 *       <td> START_ELEMENT  </td>
 *       <td> next(), getName(), getLocalName(), hasName(), getPrefix(),
 *          getAttributeXXX(), isAttributeSpecified(),
 *          getNamespaceXXX(),
 *          getElementText(), nextTag()
 *       </td>
 *     </tr>
 *       <td> ATTRIBUTE  </td>
 *       <td> next(), nextTag()
 *          getAttributeXXX(), isAttributeSpecified(),
 *       </td>
```

```
*     </tr>
*     </tr>
*      <td> NAMESPACE </td>
*      <td> next(), nextTag()
*          getNamespaceXXX()
*      </td>
*     </tr>
*     <tr>
*      <td> END_ELEMENT </td>
*      <td> next(), getName(), getLocalName(), hasName(), getPrefix(),
*          getNamespaceXXX(), nextTag()
*      </td>
*     </tr>
*     <tr>
*      <td> CHARACTERS </td>
*      <td> next(), getTextXXX(), nextTag() </td>
*     </tr>
*     <tr>
*      <td> CDATA </td>
*      <td> next(), getTextXXX(), nextTag() </td>
*     </tr>
*     <tr>
*      <td> COMMENT </td>
*      <td> next(), getTextXXX(), nextTag() </td>
*     </tr>
*     <tr>
*      <td> SPACE </td>
*      <td> next(), getTextXXX(), nextTag() </td>
*     </tr>
*     <tr>
*      <td> START_DOCUMENT </td>
*      <td> next(), getEncoding(), getVersion(), isStandalone(), standaloneSet(),
*          getCharacterEncodingScheme(), nextTag()</td>
*     </tr>
*     <tr>
*      <td> END_DOCUMENT </td>
*      <td> close()</td>
*     </tr>
*     <tr>
*      <td> PROCESSING_INSTRUCTION </td>
*      <td> next(), getPITarget(), getPIData(), nextTag() </td>
*     </tr>
*     <tr>
*      <td> ENTITY_REFERENCE </td>
*      <td> next(), getLocalName(), getText(), nextTag() </td>
*     </tr>
*     <tr>
*      <td> DTD </td>
```

```
*      <td> next(), getText(), nextTag() </td>
*    </tr>
*  </tbody>
*  </table>
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see javax.xml.stream.events.XMLEvent
* @see XMLInputFactory
* @see XMLStreamWriter
*/
```

Found in path(s):
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/XMLStreamReader.java

1.131 joda-time 2.7

1.131.1 Available under license :

```
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1.132 jersey-server 2.24.1

1.133 spring-security-acl 3.2.4.RELEASE

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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/PrincipalSid.java
* /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
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* /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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* /opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/domain/ObjectIdentityImpl.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/AclAuthorizationStrategyImpl.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/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/afterinvocation/CollectionFilterer.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/BasicLookupStrategy.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/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

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* /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
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jar/org/springframework/security/acls/domain/SpringCacheBasedAclCache.java

1.134 httpclient 4.4.1

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1.135 grpc-protobuf 1.9.0

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* /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

1.136 log4j-slf4j-impl 2.17.1

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1.137 grpc-core 1.9.0

1.138 owlapi-parsers 4.2.7

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1.140 hk2-core-module 2.5.0-b05

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1.142 sesame-util 2.7.16

1.143 xmltooling 1.4.4

1.143.1 Available under license :

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*/

/**

* Encodes and decodes to and from Base64 notation.

*

* <p>

* Change Log:

* </p>

*

* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading

* and writing to and from files.

* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like

* EBCDIC).

* v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.

* 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).

* 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).

* 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.

* v1.4 - Added helper methods to read/write files.

* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.

* 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.

* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.

* v1.3.3 - Fixed I/O streams which were totally messed up.

*

*

* <p>

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* warranties but with plenty of well-wishing instead! Please visit <a

* href="http://iharder.net/base64">http://iharder.net/base64 periodically to check for updates or to contribute

* improvements.

* </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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* /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
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* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/Pair.java
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* /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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* /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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* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
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jar/org/opensaml/xml/security/keyinfo/CollectionKeyInfoCredentialResolver.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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* /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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* /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/signature/PGPKeyPacket.java

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* /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
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  $Revision: 1.2 $ on $Date: 2005/06/03 03:09:54 $ by $Author: cantor $

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1.145 commons-lang3 2.6

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1.148 fast-infoset 1.2.15

1.149 shiro-crypto-cipher 1.6.0
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1.150 hk2-config 2.5.0-b05

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1.152 mongodb-driver 3.12.4

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1.153 kie-internal 6.5.0.Final

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* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/task/api/model/Deadline.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/task/api/model/InternalTaskSummary.java
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jar/org/kie/internal/task/api/model/NotificationEvent.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/task/api/TaskDeadlinesService.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/task/api/TaskStatisticsService.java
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```
/**
 * StatefulKnowledgeSession is the most common way to interact with the engine. A StatefulKnowledgeSession
 * allows the application to establish an iterative conversation with the engine, where the state of the
 * session is kept across invocations.  The reasoning process may be triggered multiple times for the
 * same set of data. After the application finishes using the session, though, it <b>must</b> call the
 * <code>dispose()</code> method in order to free the resources and used memory.
 *
 * <p>
 * Simple example showing a stateful session executing rules for a given collection of java objects.
 * </p>
 * <pre>
 * KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
 * kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.DRL );
 * assertFalse( kbuilder.hasErrors() );
 * if (kbuilder.hasErrors() ) {
 *    System.out.println( kbuilder.getErrors() );
 * }
 * KnowledgeBase kbase = KnowledgeBaseFactory.newKnowledgeBase();
 * kbase.addKnowledgePackages( kbuilder.getKnowledgePackages() );
 *
 * StatefulKnowledgeSession ksession = kbase.newKieSession();
 * for( Object fact : facts ) {
 *    ksession.insert( fact );
 * }
 * ksession.fireAllRules();
 * ksession.dispose();
 * </pre>
 *
 * <p>
 * Simple example showing a stateful session executing processes.
 * </p>
 * <pre>
 * KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
 * kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.BPMN2 );
 * KnowledgeBase kbase = kbuilder.newKnowledgeBase();
 * StatefulKnowledgeSession ksession = kbase.newKieSession();
 * ksession.startProcess("com.sample.processid");
 * ksession.signalEvent("SomeEvent", null);
```

```
* ksession.startProcess("com.sample.processid");
* ksession.dispose();
* </pre>
*
* <p>
* StatefulKnowledgeSessions support globals. Globals are used to pass information into the engine
* (like data or service callbacks that can be used in your rules and processes), but they should not
* be used to reason over. If you need to reason over your data, make sure you insert
* it as a fact, not a global.</p>
* <p>Globals are shared among ALL your rules and processes, so be especially careful of (and avoid
* as much as possible) mutable globals. Also, it is a good practice to set your globals before
* inserting your facts or starting your processes. Rules engines evaluate rules at fact insertion
* time, and so, if you are using a global to constraint a fact pattern, and the global is not set,
* you may receive a <code>NullPointerException</code>. </p>
* <p>Globals can be resolved in two ways. The StatefulKnowledgeSession supports getGlobals() which
* returns the internal Globals, which itself can take a delegate. Calling of setGlobal(String, Object)
* will set the global on an internal Collection. Identifiers in this internal
* Collection will have priority over the externally supplied Globals delegate. If an identifier cannot be found in
* the internal Collection, it will then check the externally supplied Globals delegate, if one has been set.
* </p>
*
* <p>Code snippet for setting a global:</p>
* <pre>
* StatefulKnowledgeSession ksession = kbase.newKieSession();
* ksession.setGlobal( "hbnSession", hibernateSession ); // sets a global hibernate session, that can be used for DB
interactions in the rules.
* for( Object fact : facts ) {
*     ksession.insert( fact );
* }
* ksession.fireAllRules(); // this will now execute and will be able to resolve the "hbnSession" identifier.
* ksession.dispose();
* </pre>
*
* <p>
* Like StatelessKnowledgeSession this also implements CommandExecutor which can be used to script a
StatefulKnowledgeSession. See CommandExecutor
* for more details.
* </p>
*
* @see org.kie.api.runtime.Globals
*/

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* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/StatefulKnowledgeSession.java
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jar/org/kie/internal/fluent/runtime/process/ProcessFluent.java

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jar/org/kie/internal/builder/RuleTemplateConfiguration.java

* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-

jar/org/kie/internal/conf/ConstraintJittingThresholdOption.java

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jar/org/kie/internal/jaxb/CorrelationKeyXmlAdapter.java

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jar/org/kie/internal/process/ProcessVariableIndexer.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/manager/RuntimeManagerIdFilter.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/task/api/TaskVariable.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/task/api/TaskVariableIndexer.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/utils/VariableIndexer.java

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* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/exception/TaskError.java

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* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/ResultSeverity.java

* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/conf/KBuilderSeverityOption.java

* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/KnowledgeBuilderResult.java

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jar/org/kie/internal/utils/ServiceDiscovery.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/weaver/KieWeaversImpl.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/query/ExtendedParametrizedQueryBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/assembler/KieAssemblers.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/task/query/TaskSummaryQueryBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/conf/ForceEagerActivationFilter.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/conf/RuntimeStrategy.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/task/query/AuditTaskQueryBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/builder/ResourceChangeSet.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/jaxb/StringKeyStringValueMapXmlAdapter.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/query/data/QueryParameters.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/task/query/TaskEventDeleteBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/manager/audit/query/AuditDeleteBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/jaxb/StringKeyStringValueEntry.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/manager/audit/query/ProcessInstanceLogDeleteBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/task/query/TaskEventQueryBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/manager/audit/query/NodeInstanceLogDeleteBuilder.java

* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/jaxb/StringKeyObjectValueEntry.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/beliefs/KieBeliefs.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/io/ResourceTypePackage.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/manager/audit/query/RequestInfoQueryBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/task/api/TaskContext.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/builder/ResourceChange.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/manager/audit/query/VariableInstanceLogDeleteBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
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jar/org/kie/internal/runtime/manager/audit/query/RequestInfoLogDeleteBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/jaxb/StringKeyObjectValueMapXmlAdapter.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/utils/ClassLoaderResolver.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/query/QueryParameterIdentifiers.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/query/data/QueryData.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/weaver/KieWeavers.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/KieRuntimesImpl.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/weaver/KieWeaverService.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/manager/audit/query/AuditDateDeleteBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/utils/KieService.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/utils/NoDepsClassLoaderResolver.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/builder/conf/SessionCacheOption.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/security/KiePolicyHelper.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/beliefs/KieBeliefService.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/manager/audit/query/ErrorInfoDeleteBuilder.java

* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/task/api/TaskModelFactory.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/manager/InternalRegisterableItemsFactory.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/manager/audit/query/ProcessInstanceLogQueryBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/task/query/TaskAuditQueryBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/command/CorrelationKeyCommand.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/query/ParametrizedQueryBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/manager/audit/query/NodeInstanceLogQueryBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/task/api/TaskPersistenceContext.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/executor/api/ExecutorStoreService.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
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jar/org/kie/internal/runtime/cdi/Activate.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/query/ProcessInstanceIdQueryBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
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jar/org/kie/internal/runtime/manager/RuntimeManagerRegistry.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/task/api/TaskPersistenceContextManager.java
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jar/org/kie/internal/assembler/KieAssemblersImpl.java
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jar/org/kie/internal/query/ParametrizedUpdate.java
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jar/org/kie/internal/runtime/beliefs/KieBeliefsImpl.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/jaxb/StringKeyObjectValueMap.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/cdi/ActivateExtension.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/command/ProcessInstanceIdCommand.java

* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/manager/audit/query/ProcessIdQueryBuilder.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/builder/ChangeType.java
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jar/org/kie/internal/event/knowledgeagent/AfterChangeSetProcessedEvent.java
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1.159 jboss-logging 3.1.3.GA

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1.161 jersey-bean-validation 2.24.1

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JUnit test library (junit-4.11.jar)

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/**
* <p>
* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* </p>
* <p>
* Script expressions can be written in any scripting or expression language,
* for which a JSR 223
* ("Scripting for the Java^{TM} Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* {@link javax.validation.ParameterNameProvider}. By default, {@code arg0}, {@code arg1} etc.
* will be used as parameter names.
* </p>
* <p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* {@code @ParametersScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
* </pre>
* <p>
* Can be specified on any method or constructor.
* </p>
*
* @author Gunnar Morling
*/

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jar/org/hibernate/validator/internal/metadata/aggregated/ReturnValueMetaData.java

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jar/org/hibernate/validator/internal/metadata/aggregated/ValidatableParametersMetaData.java

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jar/org/hibernate/validator/spi/resourceloading/ResourceBundleLocator.java
* /opt/cola/permits/1343826899_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/engine/ValidationContext.java
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* /opt/cola/permits/1343826899_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/constraintvalidation/package.html
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/**

 * Retrieves constraint related meta data for the parameters of the given

 * executable.

 *

 * @param executable The executable of interest.

 *

 * @return A list with parameter meta data for the given executable.

 */

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* /opt/cola/permits/1343826899_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-
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* /opt/cola/permits/1343826899_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/HibernateValidatorFactory.java
* /opt/cola/permits/1343826899_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/constraints/Mod11Check.java
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jar/org/hibernate/validator/cfg/context/ReturnValueConstraintMappingContext.java

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* /opt/cola/permits/1343826899_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/cfg/defs/package.html

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* /opt/cola/permits/1343826899_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/constraintvalidators/URLValidator.java

1.168 relaxngdatatype 20020414

1.169 config-types 2.5.0-b05

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1.170 commons-collections 3.2.2

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jar/org/apache/commons/collections/buffer/BlockingBuffer.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/map/AbstractHashedMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/map/TransformedSortedMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/map/TransformedMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/set/ListOrderedSet.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/SingletonListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/UnmodifiableOrderedMapIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ObjectArrayListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ArrayIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ArrayListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/LoopingIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/EnumerationIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/UniqueFilterIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/comparators/ComparatorChain.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ObjectArrayIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/CollatingIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/UnmodifiableListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/FilterListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/SingletonIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ProxyIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ProxyListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/IteratorEnumeration.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/TransformIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/UnmodifiableMapIterator.java
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jar/org/apache/commons/collections/list/NodeCachingLinkedList.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/CollectionUtils.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/MapUtils.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/bidimap/TreeBidiMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/list/AbstractLinkedList.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/FastArrayList.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/list/SetUniqueList.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-

jar/org/apache/commons/collections/BeanMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
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jar/org/apache/commons/collections/map/AbstractSortedMapDecorator.java
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jar/org/apache/commons/collections/list/TypedList.java
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jar/org/apache/commons/collections/buffer/TypedBuffer.java

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jar/org/apache/commons/collections/bidimap/AbstractDualBidiMap.java

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jar/org/apache/commons/collections/set/PredicatedSet.java

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jar/org/apache/commons/collections/BoundedMap.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/SortedBidiMap.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/list/SynchronizedList.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/bidimap/DualHashBidiMap.java

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jar/org/apache/commons/collections/bag/AbstractBagDecorator.java

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jar/org/apache/commons/collections/bidimap/DualTreeBidiMap.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/bidimap/UnmodifiableBidiMap.java

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jar/org/apache/commons/collections/map/AbstractLinkedMap.java

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jar/org/apache/commons/collections/bag/PredicatedBag.java

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jar/org/apache/commons/collections/set/PredicatedSortedSet.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/map/UnmodifiableMap.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/bag/TransformedBag.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/AbstractIteratorDecorator.java

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jar/org/apache/commons/collections/map/FixedSizeSortedMap.java

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jar/org/apache/commons/collections/set/CompositeSet.java

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jar/org/apache/commons/collections/map/AbstractOrderedMapDecorator.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/OrderedIterator.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/ResettableIterator.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/bag/TransformedSortedBag.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/bag/PredicatedSortedBag.java

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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/FixedSizeList.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/KeyValue.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/LazySortedMap.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/OrderedBidiMap.java

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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/collection/TypedCollection.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/ResettableListIterator.java

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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/TypedMap.java

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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/list/TransformedList.java

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jar/org/apache/commons/collections/iterators/ListIteratorWrapper.java
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jar/org/apache/commons/collections/iterators/FilterIterator.java

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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/map/AbstractReferenceMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/bag/AbstractMapBag.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/FactoryUtils.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/DefaultMapBag.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/DoubleOrderedMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/SequencedHashMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/BufferUnderflowException.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/BoundedCollection.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/TransformerUtils.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/BufferOverflowException.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/SetUtils.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/CursorableLinkedList.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/Factory.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/BagUtils.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-

jar/org/apache/commons/collections/map/ReferenceMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/Buffer.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/ComparatorUtils.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/UnboundedFifoBuffer.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/TreeBag.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/BoundedFifoBuffer.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/HashBag.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/SortedBag.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/IteratorUtils.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/ProxyMap.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/keyvalue/AbstractMapEntryDecorator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/keyvalue/TiedMapEntry.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/keyvalue/AbstractMapEntry.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/keyvalue/UnmodifiableMapEntry.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/keyvalue/AbstractKeyValue.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/DefaultKeyValue.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/ListOrderedMap.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/ClosureUtils.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/DefaultMapEntry.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/StringValueTransformer.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/ExtendedProperties.java

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jar/org/apache/commons/collections/buffer/BoundedFifoBuffer.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/buffer/UnboundedFifoBuffer.java
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jar/org/apache/commons/collections/functors/NonePredicate.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/functors/AnyPredicate.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/functors/SwitchTransformer.java

* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/OnePredicate.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/IfClosure.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/FunctorUtils.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/AllPredicate.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/TreeBag.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/HashBag.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/CursorableLinkedList.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/StaticBucketMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/BufferUtils.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/set/AbstractSerializableSetDecorator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/ObjectGraphIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/collection/AbstractSerializableCollectionDecorator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/EmptyOrderedMapIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/AbstractEmptyIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/list/AbstractSerializableListDecorator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/functors/PredicateDecorator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/EmptyIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/EmptyOrderedIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/EmptyListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/LoopingListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/set/MapBackedSet.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/map/CaseInsensitiveMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/EmptyMapIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/map/MultiKeyMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/map/ReferenceIdentityMap.java
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1.172 jaxen 1.1.6

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* $Header$
* $Revision: 1345 $
* $Date: 2009-10-22 07:25:23 -0400 (Thu, 22 Oct 2009) $
*

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

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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```
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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 $
```

*/

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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 $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/BaseXPath.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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* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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 * $Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo $
 */
```

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/XPathFactory.java
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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: 1300 $
 * $Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) $
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* $Id: Predicate.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/Predicate.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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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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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/NotFunction.java
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/*
* $Header$
* $Revision: 1261 $
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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultTextNodeStep.java

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* $Header$
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* $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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* $Id: FloorFunction.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: DocumentNavigator.java 1161 2006-06-03 20:36:00Z elharo $

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/*
 * $Header$
 * $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 $
 */
```

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultEqualityExpr.java
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```
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 * $Header$
 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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 *
 * $Id: FunctionContext.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/FunctionContext.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: 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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* $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: DefaultPredicate.java 1261 2006-11-30 18:49:27Z elharo $
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* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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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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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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* $Id: SubstringAfterFunction.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/SubstringAfterFunction.java
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```
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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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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Step.java
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultExpr.java

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* $Id: NodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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 * Jaxen Project, please see <http://www.jaxen.org/>.
 *
```

```
* $Id: SingleObjectIterator.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/SingleObjectIterator.java
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* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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*
* $Id: DefaultGreaterThanExpr.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/DefaultGreaterThanExpr.java
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* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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 *
 * $Id: DefaultPathExpr.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/DefaultPathExpr.java
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/*
 * $Header$
 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/saxpath/SAXPathEventSource.java
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultRelativeLocationPath.java
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/FilterExpr.java
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultTruthExpr.java
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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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* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultAbsoluteLocationPath.java
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/ext/LowerFunction.java
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* $Id: DefaultStep.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/expr/DefaultStep.java
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/*
$Id: XPath.java 1304 2007-05-02 15:00:13Z elharo $

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

*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/IdentitySet.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/SubstringBeforeFunction.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: PrecedingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
```

*/

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

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

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 * $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 $
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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: 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: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: RelationalExpr.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/RelationalExpr.java
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* $Header$
* $Revision: 1241 $
* $Date: 2006-11-08 10:07:25 -0800 (Wed, 08 Nov 2006) $
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* $Id: Predicated.java 1241 2006-11-08 18:07:25Z 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: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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 * $Id: DefaultModExpr.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/DefaultModExpr.java
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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: 1128 $
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* /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: 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 $
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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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*
* $Id: PatternHandler.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

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* $Id: IterablePrecedingAxis.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: SimpleNamespaceContext.java 1159 2006-06-03 20:25:34Z 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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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableChildAxis.java
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* $Header$
* $Revision: 1248 $
* $Date: 2006-11-08 11:20:29 -0800 (Wed, 08 Nov 2006) $
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jar/org/jaxen/expr/VariableReferenceExpr.java

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*
* $Id: NameTest.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/NameTest.java
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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/FollowingSiblingAxisIterator.java
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultArithExpr.java

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 * $Id: RoundFunction.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/RoundFunction.java
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* $Id: XPathSyntaxException.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/XPathSyntaxException.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: DefaultEqualsExpr.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/DefaultEqualsExpr.java
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* $Revision: 1193 $
* $Date: 2006-09-15 13:41:38 -0700 (Fri, 15 Sep 2006) $
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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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 * $Revision: 1128 $

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

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*/
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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* $Id: CountFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: Pattern.java 1134 2006-04-07 17:11:52Z elharo $
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* $Id: NamespaceUriFunction.java 1128 2006-02-05 21:49:04Z elharo $
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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: 1128 $
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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/StartsWithFunction.java
No license file was found, but licenses were detected in source scan.

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

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

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*
* $Id: LangFunction.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/LangFunction.java
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Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/javabean/JavaBeanXPath.java
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 * $Id: TrueFunction.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/TrueFunction.java
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* $Header$
* $Revision: 1156 $
* $Date: 2006-06-03 13:04:05 -0700 (Sat, 03 Jun 2006) $
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* $Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/xom/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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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/Context.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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* $Id: UnionPattern.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/UnionPattern.java
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* $Id: IterableFollowingSiblingAxis.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/IterableFollowingSiblingAxis.java
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* $Id: ContainsFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/
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* $Id: UnsupportedAxisException.java 1160 2006-06-03 20:26:02Z elharo $
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Found in path(s):
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jar/org/jaxen/UnsupportedAxisException.java
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*
* $Id: EndsWithFunction.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/EndsWithFunction.java
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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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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/SimpleVariableContext.java
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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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* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $

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

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

*/

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

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/dom4j/DocumentNavigator.java
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* $Id: LogicalExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/
```

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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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* $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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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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* $Id: DefaultLiteralExpr.java 1273 2007-01-03 20:47:42Z elharo $
*/
```

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* $Id: DefaultFilterExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: FalseFunction.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/StringFunction.java
No license file was found, but licenses were detected in source scan.

/*
* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
*
* ==
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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/FollowingAxisIterator.java
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/*
* $Header$
* $Revision: 1128 $

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

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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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* $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
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* $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 $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/AncestorOrSelfAxisIterator.java
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* $Revision: 1128 $
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* $Id: SimpleFunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
*/
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* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: LocalNameFunction.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/LocalNameFunction.java
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenRuntimeException.java
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jar/org/jaxen/function/xslt/DocumentFunction.java
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 * $Revision: 1128 $
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* $Id: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo $
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* $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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 * $Id: NameFunction.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/NameFunction.java
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 * $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 $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/UnionExpr.java
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Found in path(s):

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

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* $Id: AllNodeStep.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/AllNodeStep.java
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* $Revision: 1225 $
* $Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) $
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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/dom/DOMXPath.java
No license file was found, but licenses were detected in source scan.

Found in path(s):

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

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/*

* $Header$

* $Revision: 1277 $

* $Date: 2007-01-05 10:25:43 -0800 (Fri, 05 Jan 2007) $

*

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultBinaryExpr.java
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/*
* $Header$
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```
* $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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```
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 * $Header$
 * $Revision: 1334 $
 * $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
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 *
 * $Id: TokenTypes.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/TokenTypes.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: XPathNamespace.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/jdom/XPathNamespace.java
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* $Id: XPathLexer.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/XPathLexer.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: 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-
jar/org/jaxen/expr/DefaultGreaterThanEqualExpr.java
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* $Header$
* $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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/*
$Id: IterableAxis.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: FunctionCallException.java 1179 2006-07-16 11:07:25Z elharo $
*/
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* $Id: DefaultMultiplicativeExpr.java 1128 2006-02-05 21:49:04Z elharo $
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Found in path(s):
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* $Id: PathExpr.java 1300 2007-05-02 14:27:46Z elharo $
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* $Revision: 1162 $
* $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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 *
 * $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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 * $Header$
 * $Revision: 1255 $
 * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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 * Jaxen Project, please see <http://www.jaxen.org/>.
 *
 * $Id: AncestorAxisIterator.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/AncestorAxisIterator.java
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 * $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 $
*/

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

/*
* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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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: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultNotEqualsExpr.java
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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultAndExpr.java
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```
/*
* $Header$
* $Revision: 1128 $
```

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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```
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 *
 * $Id: NoNodeTest.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/NoNodeTest.java
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/*
$Id: ContextSupport.java 1157 2006-06-03 20:07:37Z elharo $

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/*
* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/ConcatFunction.java
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/*
* $Header$
* $Revision: 1245 $
* $Date: 2006-11-08 10:52:02 -0800 (Wed, 08 Nov 2006) $

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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```
/*
```

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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```
/*
 * $Header$
 * $Revision: 1226 $
 * $Date: 2006-11-08 07:44:33 -0800 (Wed, 08 Nov 2006) $
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 * $Id: ProcessingInstructionNodeStep.java 1226 2006-11-08 15:44:33Z elharo $
 */
```

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* $Id: TextNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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/*
$Id: IterableAttributeAxis.java 1162 2006-06-03 20:52:26Z elharo $

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 * $Id: DescendantAxisIterator.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/DescendantAxisIterator.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 $

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

jar/org/jaxen/saxpath/XPathSyntaxException.java

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* $Id: DefaultNumberExpr.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/DefaultNumberExpr.java

1.173 commons-logging 1.2
1.173.1 Available under license :

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* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
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/GlobalAuthenticationConfigurerAdapter.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/LdapAuthenticationProviderConfigurer.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/LogoutConfigurer.java

* /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

* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/authentication/ProviderManagerBuilder.java

* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/SecurityConfigurerAdapter.java

* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/builders/WebSecurity.java

* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configuration/WebSecurityConfiguration.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

* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/authentication/builders/AuthenticationManagerBuilder.java

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jar/org/springframework/security/config/annotation/web/configurers/RequestCacheConfigurer.java
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jar/org/springframework/security/config/annotation/web/HttpSecurityBuilder.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/PortMapperConfigurer.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/X509Configurer.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/GlobalMethodSecurityConfiguration.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
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1.176 knowledge-api 6.5.0.Final

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* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/rule/Evaluator.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/rule/AgendaGroupPoppedEvent.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/rule/ActivationCancelledEvent.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/process/ProcessNodeTriggeredEvent.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/AfterKnowledgePackageAddedEvent.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/process/ProcessVariableChangedEvent.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/process/ProcessNodeLeftEvent.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/rule/AfterActivationFiredEvent.java

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jar/org/drools/event/rule/WorkingMemoryEventListener.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/BeforeKnowledgeBaseUnlockedEvent.java

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jar/org/drools/event/rule/AgendaGroupPushedEvent.java

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jar/org/drools/event/knowledgebase/AfterProcessAddedEvent.java

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jar/org/drools/event/knowledgebase/AfterKnowledgeBaseLockedEvent.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/rule/RuleFlowGroupDeactivatedEvent.java

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jar/org/drools/event/rule/ObjectRetractedEvent.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/rule/RuleFlowGroupEvent.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/KnowledgeBaseEvent.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/BeforeFunctionRemovedEvent.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-

jar/org/drools/event/knowledgebase/AfterProcessRemovedEvent.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/rule/AgendaEventListener.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/process/ProcessEventListener.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/AfterKnowledgeBaseUnlockedEvent.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/process/ProcessCompletedEvent.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/rule/ObjectUpdatedEvent.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/AfterKnowledgePackageRemovedEvent.java

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* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/definition/type/Annotation.java

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*/
/**
* StatefulKnowledgeSession is the most common way to interact with the engine. A StatefulKnowledgeSession
* allows the application to establish an iterative conversation with the engine, where the state of the
* session is kept across invocations.  The reasoning process may be triggered multiple times for the
* same set of data. After the application finishes using the session, though, it <b>must</b> call the
* <code>dispose()</code> method in order to free the resources and used memory.
*
* <p>
* Simple example showing a stateful session executing rules for a given collection of java objects.
* </p>
* <pre>
* KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
* kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.DRL );
* assertFalse( kbuilder.hasErrors() );
* if (kbuilder.hasErrors() ) {
*     System.out.println( kbuilder.getErrors() );
* }
* KnowledgeBase kbase = KnowledgeBaseFactory.newKnowledgeBase();
* kbase.addKnowledgePackages( kbuilder.getKnowledgePackages() );
*
* StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
* for( Object fact : facts ) {
*     ksession.insert( fact );
* }
* ksession.fireAllRules();
* ksession.dispose();
* </pre>
*
* <p>
* Simple example showing a stateful session executing processes.
* </p>
* <pre>
* KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
* kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.BPMN2 );
* KnowledgeBase kbase = kbuilder.newKnowledgeBase();
* StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
* ksession.startProcess("com.sample.processid");
* ksession.signalEvent("SomeEvent", null);
* ksession.startProcess("com.sample.processid");
* ksession.dispose();
* </pre>
*
* <p>
* StatefulKnowledgeSessions support globals. Globals are used to pass information into the engine
* (like data or service callbacks that can be used in your rules and processes), but they should not
```

* be used to reason over. If you need to reason over your data, make sure you insert

* it as a fact, not a global.</p>

* <p>Globals are shared among ALL your rules and processes, so be especially careful of (and avoid

* as much as possible) mutable globals. Also, it is a good practice to set your globals before

* inserting your facts or starting your processes. Rules engines evaluate rules at fact insertion

* time, and so, if you are using a global to constraint a fact pattern, and the global is not set,

* you may receive a <code>NullPointerException</code>. </p>

* <p>Globals can be resolved in two ways. The StatefulKnowledgeSession supports getGlobals() which

* returns the internal Globals, which itself can take a delegate. Calling of setGlobal(String, Object)

* will set the global on an internal Collection. Identifiers in this internal

* Collection will have priority over the externally supplied Globals delegate. If an identifier cannot be found in

* the internal Collection, it will then check the externally supplied Globals delegate, if one has been set.

* </p>

*

* <p>Code snippet for setting a global:</p>

* <pre>

* StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();

* ksession.setGlobal("hbnSession", hibernateSession); // sets a global hibernate session, that can be used for DB

interactions in the rules.

* for(Object fact : facts) {

*   ksession.insert(fact);

* }

* ksession.fireAllRules(); // this will now execute and will be able to resolve the "hbnSession" identifier.

* ksession.dispose();

* </pre>

*

* <p>

* Like StatelessKnowledgeSession this also implements CommandExecutor which can be used to script a

StatefulKnowledgeSession. See CommandExecutor

* for more details.

* </p>

*

* @see org.drools.core.runtime.Globals

*/

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* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-

jar/org/drools/runtime/StatefulKnowledgeSession.java

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Found in path(s):
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/KnowledgeBaseConfiguration.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/time/Calendar.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/rule/QueryResults.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/conf/KnowledgeBaseOptionsConfiguration.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/rule/QueryResultsRow.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/rule/AgendaFilter.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/process/WorkItemManager.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/rule/Row.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgeagent/AfterChangeSetAppliedEvent.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/conf/ShareAlphaNodesOption.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/builder/conf/ProcessStringEscapesOption.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/Calendars.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgeagent/BeforeChangeSetAppliedEvent.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/rule/WorkingMemoryEntryPoint.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/conf/LogicalOverrideOption.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/builder/RuleBuilder.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/PropertiesConfiguration.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/ChangeSet.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/rule/ActivationGroup.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-

jar/org/drools/runtime/rule/Agenda.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/Service.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/management/KnowledgeSessionMonitoringMBean.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/ClassLoaderCacheOption.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/StatelessKnowledgeSessionResults.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/SingleValueKnowledgeBaseOption.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/KnowledgePackage.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/StatelessRuleSession.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/KnowledgeBaseFactory.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/type/FactField.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/LiveQuery.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/DebugKnowledgeAgentEventListener.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/conf/ClockTypeOption.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/EvaluatorOption.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/util/ClassLoaderUtil.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/RuleFlowGroup.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/process/NodeContainer.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgebase/KnowledgeBaseEventListener.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/KnowledgeBuilderOption.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/IndexLeftBetaMemoryOption.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/task/service/ResponseHandler.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/command/CommandFactory.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/DebugAgendaEventListener.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/DefaultPackageNameOption.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/KnowledgeSessionConfiguration.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/rule/Variable.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/management/DroolsManagementAgentMBean.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/util/CompositeClassLoader.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/builder/conf/KnowledgeBuilderOptionsConfiguration.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/rule/Operator.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/conf/SingleValueKnowledgeSessionOption.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/conf/EventProcessingOption.java

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jar/org/drools/definition/rule/Rule.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/rule/ConsequenceExceptionHandler.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/builder/ResourceConfiguration.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/help/BatchExecutionHelperProvider.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/builder/help/KnowledgeBuilderHelper.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/builder/conf/SingleValueKnowledgeBuilderOption.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/rule/DefaultKnowledgeAgentEventListener.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/conf/AlphaThresholdOption.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/conf/AssertBehaviorOption.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/builder/DecisionTableConfiguration.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/process/ProcessEventManager.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/conf/MultiValueKnowledgeSessionOption.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/ExecutionResults.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/StatelessKnowledgeSession.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/builder/DecisionTableInputType.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/process/ProcessContext.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/conf/Option.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/builder/conf/AccumulateFunctionOption.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/conf/KnowledgeSessionOption.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/osgi/api/Activator.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/definition/process/Process.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/conf/MaxThreadsOption.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/SystemEventListenerService.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/Globals.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/rule/FactHandle.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/management/KBaseConfigurationMonitorMBean.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
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* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/conf/ShareBetaNodesOption.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/process/ProcessNodeEvent.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/definition/process/WorkflowProcess.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/util/ServiceRegistry.java
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jar/org/drools/conf/ConsequenceExceptionHandlerOption.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/KnowledgeBaseFactoryService.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/rule/WorkingMemoryEventManager.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/impl/DecisionTableConfigurationImpl.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/conf/WorkItemHandlerOption.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/io/Resource.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/logger/KnowledgeRuntimeLoggerFactory.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/command/CommandFactoryService.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/rule/TypedAccumulateFunction.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/DefaultKnowledgeBaseEventListener.java

* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/definition/rule/Global.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/builder/KnowledgeBuilderConfiguration.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/process/ProcessRuntime.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgeagent/AfterResourceProcessedEvent.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/logger/KnowledgeLog.java
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jar/org/drools/builder/KnowledgeBuilderFactory.java
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jar/org/springframework/osgi/context/support/BundleContextAwareProcessor.java
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jar/org/springframework/osgi/config/ServiceBeanDefinitionParser.java

1.178 swagger-jaxrs 1.5.0

1.179 shiro-cache 1.6.0

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1.180 jaxb-api 2.2.11

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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/JAXBElement.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlSchema.java
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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/CollapsedStringAdapter.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapters.java
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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlAttribute.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
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jar/javax/xml/bind/DataBindingException.java
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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/ValidationEventLocatorImpl.java
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jar/javax/xml/bind/WhiteSpaceProcessor.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
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1.181 okhttp 3.9.0

1.182 hibernatejpa2.0api 1.0.1.Final

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1.183 spring-orm 4.3.19.RELEASE

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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
 */

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jar/org/springframework/orm/hibernate4/HibernateTransactionManager.java
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jar/org/springframework/orm/jpa/JpaSystemException.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
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* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
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* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
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* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jpa/JpaVendorAdapter.java

* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/support/OpenSessionInViewInterceptor.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/ObjectOptimisticLockingFailureException.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/ObjectRetrievalFailureException.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/HibernateJpaDialect.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/support/SharedEntityManagerBean.java
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* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/persistenceunit/SmartPersistenceUnitInfo.java
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* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateOperations.java
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* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/TypeDefinitionBean.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/Database.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateJdbcException.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/JdoOptimisticLockingFailureException.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateQueryException.java
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* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateSystemException.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/EntityManagerProxy.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/JdoResourceFailureException.java
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* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/SpringJtaSessionContext.java
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1.184 shiro-crypto-core 1.6.0

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1.185 google-http-client-xml 1.20.0

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jar/com/google/api/client/http/xml/atom/package-info.java

* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-

jar/com/google/api/client/http/xml/atom/AtomContent.java

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* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/http/xml/atom/AtomFeedParser.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/xml/Xml.java
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* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/xml/GenericXml.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/xml/atom/Atom.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/http/xml/package-info.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/http/xml/XmlHttpContent.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/xml/atom/package-info.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/xml/XmlObjectParser.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/xml/XmlNamespaceDictionary.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/xml/package-info.java

1.186 hk2-api 2.5.0-b05

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1.189 groovy-json 3.0.8

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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

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jar/org/apache/groovy/json/internal/ValueMap.java

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jar/org/apache/groovy/json/internal/Value.java

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jar/org/apache/groovy/json/internal/ValueContainer.java

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jar/groovy/json/StreamingJsonBuilder.java

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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
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* /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
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* /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-

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#
org.apache.groovy.json.DefaultFastStringServiceFactory

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INF/services/org.apache.groovy.json.FastStringServiceFactory

1.190 sesame-rio-ntriples 2.7.16

1.191 jul-to-slf4j 1.7.21

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1.192 commons-dbcp 2.0.1

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1.193 sesame-model 2.7.16

1.194 xpp 1.1.4c

1.195 swagger-annotations 1.5.0

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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/swagger-api/swagger-spec/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 "";
}
```

1.196 jetty-continuation 9.3.27.v20190418

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* /opt/cola/permits/1147649994_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/ContinuationListener.java
* /opt/cola/permits/1147649994_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-

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1.197 accessors-smart 1.2

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1.198 antlr-runtime 4.5.1

1.199 cisco-xalan 2.7.2b

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2000-05-05

1.200 commons-cli 1.1

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1.201 jetty-security 9.3.27.v20190418

1.202 jsqlparser 2.1
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medium customarily used for software interchange.

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from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
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Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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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1.205 sesame-rio-languages 2.7.16

1.206 jakarta activation api 1.2.1

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1.207 jax-ws-api 2.3.0

1.208 vavr-match 0.10.2

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1.209 spring-security-cas 3.2.4.RELEASE

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* /opt/cola/permits/1114224931_1607455138.74/0/spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/authentication/SpringCacheBasedTicketCache.java

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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-
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* /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

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* /opt/cola/permits/1114224931_1607455138.74/0/spring-security-cas-3-2-4-release-sources-jar/org/springframework/security/cas/authentication/CasAssertionAuthenticationToken.java

1.210 instrumentation-api 0.4.3

1.211 httpcore 4.4.1

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* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
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1.223 jetty-servlets 9.3.27.v20190418

1.224 jackson-core 2.10.4

1.224.1 Available under license :

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1.225 jackson-databind 2.10.4

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1.226 jetty-http 9.3.27.v20190418

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1.227 opentracing-util 0.31.0

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

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

* /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

1.228 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
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#
##############################################################################

# 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-xpixmap    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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jar/org/springframework/cache/jcache/interceptor/AbstractFallbackJCacheOperationSource.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/commonj/TimerManagerTaskScheduler.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/quartz/CronTriggerFactoryBean.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/caffeine/CaffeineCacheManager.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/quartz/SimpleTriggerFactoryBean.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/caffeine/CaffeineCache.java

* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java
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* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/CacheResultInterceptor.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/JCacheCacheManager.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/DefaultCacheInvocationContext.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailMessage.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/JCacheAspectSupport.java
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* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/javamail/MimeMessageHelper.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/velocity/VelocityEngineFactory.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/velocity/VelocityEngineUtils.java
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jar/org/springframework/cache/guava/GuavaCache.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/DefaultJCacheOperationSource.java
* /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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jar/org/springframework/cache/jcache/interceptor/JCacheOperation.java
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jar/org/springframework/mail/javamail/JavaMailSenderImpl.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/ehcache/EhCacheCacheManager.java
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jar/org/springframework/scheduling/commonj/DelegatingWork.java
* /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

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* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/javamail/SmartMimeMessage.java

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* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/MethodInvokingJobDetailFactoryBean.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/freemarker/SpringTemplateLoader.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/interceptor/JCacheInterceptor.java

* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/AbstractJCacheOperation.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/interceptor/CacheResultOperation.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/interceptor/DefaultCacheMethodDetails.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/JCacheCache.java

1.229 aopalliance-repackaged 2.5.0-b05

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1.230 object-cache-noop 0.8.3-SNAPSHOT

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Manifest-Version: 1.0
Bnd-LastModified: 1466334883740
Build-Jdk: 1.7.0_91
Built-By: jenkins
Bundle-DocURL: https://www.opendaylight.org
Bundle-License: https://www.eclipse.org/legal/epl-v10.html
Bundle-ManifestVersion: 2
Bundle-Name: object-cache-noop
Bundle-SymbolicName: org.opendaylight.yangtools.object-cache-noop
Bundle-Vendor: OpenDaylight
Bundle-Version: 0.8.3.SNAPSHOT
Created-By: Apache Maven Bundle Plugin
Export-Package: org.opendaylight.yangtools.objcache.impl;version="0.8.3"
;uses:="org.opendaylight.yangtools.objcache.spi"
Import-Package: org.opendaylight.yangtools.objcache;version="[0.8,1)",or
g.opendaylight.yangtools.objcache.spi;version="[0.8,1)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326

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1.231 gson 2.7

1.232 metrics-jvm 4.1.0

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1.233 proto-google-common-protos 1.0.0

1.234 jersey-guava 2.24.1

1.235 commons-digester 1.8.1

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1.237 commons-compress 1.20

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1.243 jedis 2.10.2

1.244 jackson-dataformat-yaml 2.10.4

1.244.1 Available under license :

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1.245 javax-el 2.2.4

1.246 jetty-jndi 9.3.27.v20190418

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1.247 sesame-rio-binary 2.7.16

1.248 hk2-utils 2.5.0-b05
1.248.1 Available under license :

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1.250 jcl-over-slf4j 1.7.5

1.251 java-jwt 3.8.3
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JUnit test library (junit-3.8.1.jar)

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  <module name='ant'
      licenseType='apache-2.0'
      version='1.8.2'
      projectHome='http://ant.apache.org/'
      description='ANT (compile time)'>
    <jar name='ant.jar' />
  </module>
  <module name='ant-launcher'
      licenseType='apache-2.0'
      version='1.8.2'
      projectHome='http://ant.apache.org/'
      description='ANT launcher (compile time)'>
    <jar name='ant-launcher.jar' />
  </module>
  <module name='ant-junit'
      licenseType='apache-2.0'
      version='1.8.2'
      projectHome='http://ant.apache.org/'
      description='ANT junit support (compile time)'>
    <jar name='ant-junit.jar' />
  </module>

  <module name='BND'
      licenseType='apache-2.0'
      version='1.44.0'
      projectHome='http://www.aqute.biz/Bnd/Bnd'
      description='Used to generate an OSGI compliant conf/MANIFEST.MF'>
    <jar name='bnd.jar' />
  </module>
  <module name='Bouncy castle'
      licenseType='bouncycastle'
      version='1.17'
      projectHome='http://www.bouncycastle.org'
      description='Encryption algorithms. Used by ENCRYPT and AUTH (runtime)'>
    <jar name='bouncycastle.jar' />
  </module>
  <module name='Beanshell'
      licenseType='lgpl (dual license, but LGPL may be chosen)'
      version='2.0b5'
      projectHome='http://www.beanshell.org'
      description='Lightweight Scripting for Java. Uused mainly by the BSH protocol (uncomplete) (runtime)'>
    <jar name='bsh.jar' />
  </module>
  <module name='byteman'
      licenseType='LGPL 2.1'
      version='2.1.0'
      projectHome='http://www.jboss.org/byteman'>
```

```xml
        <jar name='byteman.jar' />
    </module>
    <module name='byteman-bmunit'
        licenseType='LGPL 2.1'
        version='2.1.0'
        projectHome='http://www.jboss.org/byteman'>
        <jar name='byteman-bmunit.jar' />
    </module>
    <module name='byteman-install'
        licenseType='LGPL 2.1'
        version='2.1.0'
        projectHome='http://www.jboss.org/byteman'>
        <jar name='byteman-install.jar' />
    </module>
    <module name='byteman-submit'
        licenseType='LGPL 2.1'
        version='2.1.0'
        projectHome='http://www.jboss.org/byteman'>
        <jar name='byteman-submit.jar' />
    </module>
    <module name='creative-commons'
        licenseType='creative-commons'
        version='2.5'
        projectHome='http://creativecommons.org/licenses/by/2.5/'
        description='Annotations of JCIP'>
        <jar name='none (part of src tree: org.jgroups.annotations)' />
    </module>
    <module name='log4j'
      licenseType='apache-2.0'
      version='1.2.14'
      projectHome='http://logging.apache.org/'
      description='Java logging framework (runtime)'>
        <jar name='log4j.jar' />
    </module>
    <module name='serializer'
        licenseType='apache-2.0'
        version='1.6.5'
        projectHome='http://ant.apache.org/'
        description='ANT (compile time), needed for generation of test reports'>
        <jar name='serializer.jar' />
    </module>
    <module name='testng'
        licenseType='apache-2.0'
        version='6.8'
        projectHome='http://www.testng.org'
        description='Used for unit testing'>
        <jar name='testng-6.8.jar' />
    </module>
```

```
<module name='xalan'
    licenseType='apache-2.0'
    version='2.4.D1'
    projectHome='http://xml.apache.org/xalan-j/'
    description='Xalan-Java is an XSLT processor for transforming XML documents.
            Used to generate HTML test reports from XML (testing time)'>
  <jar name='xalan.jar' />
</module>
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```

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1.253 jsonld-java 0.5.0

1.254 commons-net 3.0

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-
jar/com/nimbusds/jose/crypto/impl/ECDHCryptoProvider.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-
jar/com/nimbusds/jose/proc/JOSEObjectTypeVerifier.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-
jar/com/nimbusds/jose/jwk/source/JWKSecurityContextJWKSet.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/META-
INF/maven/com.nimbusds/nimbus-jose-jwt/pom.xml
No license file was found, but licenses were detected in source scan.

/*

* nimbus-jose-jwt

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/proc/DefaultJWTProcessor.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JWEDecryptionKeySelector.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JWSAlgorithmFamilyJWSKeySelector.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/ECDHEncrypter.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JWSVerificationKeySelector.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JOSEProcessorConfiguration.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/JWKMatcher.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/DefaultJOSEProcessor.java
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* nimbus-jose-jwt
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/JWKSet.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/Ed25519Signer.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/Base64Codec.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/Ed25519Verifier.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-

jar/com/nimbusds/jose/crypto/X25519Decrypter.java

1.257 groovy 3.0.8

1.257.1 Available under license :

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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.

/** 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
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```
*       John Pybus          john@pybus.org
*       John Rose           rose00@mac.com
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*       Alex Popescu         the.mindstorm@gmail.com
*       Martin Kempf         mkempf@hsr.ch
*       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 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.
*
*   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 Eliasen 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 reconcilliation 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 Java1.5 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 mkempf, 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
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* 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/groovy.g
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/antlr/java/java.g
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>'

```
*
* Contributing authors:
*     Jeremy Rayner      groovy@ross-rayner.com
* John Mitchell  johnm@non.net
* Terence Parr  parrt@magelang.com
* John Lilley  jlilley@empathy.com
* Scott Stanchfield thetick@magelang.com
* Markus Mohnen  mohnen@informatik.rwth-aachen.de
* Peter Williams  pete.williams@sun.com
* Allan Jacobs  Allan.Jacobs@eng.sun.com
* Steve Messick  messick@redhills.com
* John Pybus  john@pybus.org
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* Version 1.00 December 9, 1997 -- initial release
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*   fixed bug in octal def (0..7 not 0..8)
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*   added tree construction
*   fixed definition of WS,comments for mac,pc,unix newlines
*   added unary plus
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*   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
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*   Put instanceof precedence where it belongs...in relationalExpr
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* statements.

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*   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

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* 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*

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* Note that the grammar is stricter now; e.g., this(...) must

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*

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*   (isBig ? bigDigits : digits)[i];

*

* Checked parser/tree parser on source for

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*    Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
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*   o We only allow the "extends" keyword and not the "implements"
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*   o Thanks to Monty Zukowski for his help on the antlr-interest
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*   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
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*  and package definitions
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*   o Fixed bug where type parameter was not included in generic constructor's branch of AST
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*   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

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*   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 Java1.5 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/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weigher.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-

jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java

* /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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jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EntryWeigher.java

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jar/org/codehaus/groovy/control/io/package.html

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* /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-jar/org/codehaus/groovy/ast/package.html

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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/lang/MetaClassRegistryChangeEventListener.java
* /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
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/m12n/SimpleExtensionModule.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/expr/ListExpression.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/DelegateASTTransformation.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/ExtendedVerifier.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/lang/GroovyObjectSupport.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/tools/shell/util/Logger.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/codehaus/groovy/antlr/EnumHelper.java
* /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-
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jar/org/codehaus/groovy/tools/javac/JavacJavaCompiler.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/NullCheckASTTransformation.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-

jar/org/codehaus/groovy/reflection/stdclasses/IntegerCachedClass.java

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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/antlr/ASTRuntimeException.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/util/IFileNameFinder.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/trait/TraitASTTransformation.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/DynamicVariable.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/stc/SecondParam.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/AbstractConcurrentMap.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/ASTTest.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/lang/SpreadMapEvaluatingException.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/ASTTransformationCollectorCodeVisitor.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/tools/javac/RawJavaFileObject.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/apache/groovy/parser/antlr4/AbstractLexer.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-
jar/org/apache/groovy/internal/metaclass/MetaClassConstant.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/SocketGroovyMethods.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/builder/ExternalStrategy.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/vmplugin/v5/JUnit4Utils.java

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jar/org/codehaus/groovy/antlr/GroovySourceAST.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/GetEffectivePogoPropertySite.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/ListExpressionTransformer.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/syntax/TokenException.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/java/Java2GroovyConverter.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/NewMetaMethod.java

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* /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-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
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/tailrec/ReturnStatementToIterationConverter.groovy
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* /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
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* /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
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/typehandling/NumberMath.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/AbstractComparator.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/apache/groovy/plugin/GroovyRunner.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/ReferenceBundle.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/MultipleCompilationErrorsException.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/MutableMetaClass.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/TupleConstructorASTTransformation.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/lang/groovydoc/GroovydocTag.java

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jar/org/codehaus/groovy/transform/SynchronizedASTTransformation.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/util/ClosureComparator.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/antlr/treewalker/CompositeVisitor.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/cli/UnparsedField.groovy

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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jar/org/codehaus/groovy/runtime/dgmimpl/arrays/DoubleArrayPutAtMetaMethod.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/vmplugin/v6/Java6.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/Reference.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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jar/org/codehaus/groovy/control/customizers/builder/InlinedASTCustomizerFactory.java

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jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesStatementWriter.java

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jar/org/codehaus/groovy/runtime/callsite/ConstructorSite.java

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jar/org/codehaus/groovy/transform/sc/transformers/StaticMethodCallExpressionTransformer.java

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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Binding.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/codehaus/groovy/vmplugin/v7/IndyGuardsFiltersAndSignatures.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/vmplugin/v7/IndyMath.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Singleton.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ArrayMetaMethod.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/typehandling/FloatingPointMath.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/IntRange.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/sc/transformers/CompareToNullExpression.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/lang/MissingPropertyException.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/GroovyASTTransformationClass.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/lang/MissingFieldException.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/InstanceOfVerifier.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/cli/internal/OptionAccessor.groovy

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/MemoizedASTTransformation.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/Parameter.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/LongArrayIterable.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/AbstractASTTransformation.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/ConditionalInterrupt.groovy

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/tools/GrapeUtil.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-

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-
jar/org/codehaus/groovy/runtime/GeneratedLambda.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/memoize/LRUProtectionStorage.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/callsite/PerInstancePojoMetaClassSite.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/syntax/Numbers.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/LongArrayIterator.java

* /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-
jar/org/codehaus/groovy/transform/IndexedPropertyASTTransformation.java

* /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-
jar/groovy/beans/BindableASTTransformation.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/tools/ast/TransformTestHelper.groovy

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/MetaClassHelper.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/lang/ClosureInvokingMethod.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/stmt/ContinueStatement.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/ClassNodeResolver.java

* /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-
jar/org/apache/groovy/parser/antlr4/AstBuilder.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/util/logging/Log.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/SourceExtensionHandler.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/util/BufferedIterator.java

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jar/org/codehaus/groovy/runtime/BytecodeInterface8.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/stc/PickFirstResolver.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/powerassert/AssertionRenderer.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/tools/GroovyClass.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/CompilerConfiguration.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/DoubleArrayIterator.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/wrappers/CharWrapper.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/callsite/MetaMethodSite.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/Proxy.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/callsite/GroovySunClassLoader.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ObjectArrayPutAtMetaMethod.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/PropertyNode.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/ExternalizeVerifier.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/tools/shell/IO.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/callsite/PogoMetaClassGetPropertySite.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/AutoFinal.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/CompilationFailedException.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/GeneratorContext.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/memoize/ProtectionStorage.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/FloatArrayPutAtMetaMethod.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ByteArrayGetAtMetaMethod.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/tailrec/StatementReplacer.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/vmplugin/VMPluginFactory.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/reflection/stdclasses/FloatCachedClass.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/SourceUnit.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/asm/ExpressionAsVariableSlot.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/PackageScopeTarget.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Lazy.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/Memoized.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/tools/javac/MemJavaFileObject.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/antlr/treewalker/SourceCodeTraversal.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/reflection/stdclasses/ByteCachedClass.java

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jar/org/codehaus/groovy/transform/ASTTransformation.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/BaseScript.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/ManagedLinkedList.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/stc/PropertyLookupVisitor.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/antlr/treewalker/MindMapPrinter.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/ModuleNode.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/ASTTestTransformation.groovy

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/stc/UnionTypeClassNode.java

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jar/org/codehaus/groovy/reflection/stdclasses/StringCachedClass.java

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jar/org/codehaus/groovy/transform/NamedVariantASTTransformation.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/expr/ExpressionTransformer.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/expr/BooleanExpression.java

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jar/org/codehaus/groovy/transform/ASTTransformationVisitor.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/IntArrayIterable.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/callsite/CallSite.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/typehandling/GroovyCastException.java

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jar/org/codehaus/groovy/runtime/DefaultMethodKey.java

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jar/org/codehaus/groovy/runtime/metaclass/TransformMetaMethod.java

* /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
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Mixin.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
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/DefaultGroovyMethodsSupport.java
* /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
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/CompileStatic.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/AutoImplement.java
* /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
* /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/org/codehaus/groovy/transform/sc/transformers/ConstructorCallTransformer.java
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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/org/codehaus/groovy/runtime/powerassert/Value.java

* /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

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/tools/PropertyNodeUtils.java

* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/typehandling/ShortTypeHandling.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/classgen/asm/BinaryFloatExpressionHelper.java

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jar/org/codehaus/groovy/runtime/RangeInfo.java

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jar/org/apache/groovy/parser/antlr4/PositionInfo.java

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jar/org/codehaus/groovy/transform/sc/transformers/CompareIdentityExpression.java

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jar/org/codehaus/groovy/reflection/ReflectionUtils.java

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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/callsite/CallSiteClassLoader.java

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jar/org/apache/groovy/ast/tools/ClassNodeUtils.java

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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/stmt/ThrowStatement.java
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* /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
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* /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-
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-
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

* /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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/*
* This file is adapted from the Antlr4 Java grammar which has the following license
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```
/**
* 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? LBRACK expressionList[true]? RBRACK
    ;

namedPropertyArgs
    :   QUESTION? LBRACK (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.

```
# 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.

# 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
```

Found in path(s):
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/META-INF/groovy/org.codehaus.groovy.source.Extensions
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
 */
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());
```

```java
    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 overrided by GroovyLangLexer
     */
    protected void rollbackOneChar() {}

    private static class Paren {
        private String text;
        private int lastTokenType;
        private int line;
        private int column;
```

```java
    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
```

```java
  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
   :  [lLiIgG]
   ;

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
TsqStringQuotationMark
  :  '\'\'\''
  ;


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

1.258 osgi-core 4.3.1

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1.259 shiro-crypto-hash 1.6.0

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1.260 guava 18.0

1.261 error_prone_annotations 2.1.2
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* /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/ForOverride.java
* /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-

jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java

* /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/IncompatibleModifiers.java

* /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/RequiredModifiers.java

* /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/CompileTimeConstant.java

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jar/com/google/errorprone/annotations/Immutable.java

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jar/com/google/errorprone/annotations/Var.java

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jar/com/google/errorprone/annotations/concurrent/LazyInit.java

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jar/com/google/errorprone/annotations/DoNotMock.java

* /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/FormatString.java

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jar/com/google/errorprone/annotations/FormatMethod.java

* /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/MustBeClosed.java

* /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/RestrictedApi.java

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jar/com/google/errorprone/annotations/NoAllocation.java
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jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
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1.262 owlapi-rio 4.2.7

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* /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

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```

*/
/**

   * 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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* /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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* https://github.com/marianobarrios/tls-channel
*/
/**
  * Writes a sequence of bytesProduced to this channel from a subsequence of the
  * given buffers.
  *
```

```
 * <p>
 * See {@link GatheringByteChannel#write(ByteBuffer[], int, int)} for more
 * details of the meaning of this signature.
 *
 * <p>
 * This method behaves slightly different than the interface specification,
 * with respect to non-blocking responses, see {@link #write(ByteBuffer)}
 * for more details.
 *
 * @param srcs   The buffers from which bytesProduced are to be retrieved
 * @param offset The offset within the buffer array of the first buffer from
 *               which bytesProduced are to be retrieved; must be non-negative and no
 *               larger than <tt>srcs.length</tt>
 * @param length The maximum number of buffers to be accessed; must be
 *               non-negative and no larger than <tt>srcs.length</tt>
 *                - <tt>offset</tt>
 * @return The number of bytesProduced written, 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
 */
/**
 * Reads a sequence of bytesProduced from this channel into a subsequence of the
 * given buffers.
 *
 * <p>
 * See {@link ScatteringByteChannel#read(ByteBuffer[], int, int)} for more
 * details of the meaning of this signature.
 *
 * <p>
 * This method behaves slightly different than the interface specification,
 * with respect to non-blocking responses, see {@link #read(ByteBuffer)} for
 * more details.
 *
 * @param dsts   The buffers into which bytesProduced are to be transferred
 * @param offset The offset within the buffer array of the first buffer into
 *               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>
 *                - <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
 */

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jar/com/mongodb/annotations/NotThreadSafe.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/annotations/Immutable.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/annotations/ThreadSafe.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/ReadConcernHelper.java

* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/lang/package-info.java

* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/AbortTransactionOperation.java

* /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

1.264 swagger-models 0.8.8

1.265 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/client/Entity.java
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jar/javax/ws/rs/Priorities.java
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jar/javax/ws/rs/ext/InterceptorContext.java
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jar/javax/ws/rs/NameBinding.java
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jar/javax/ws/rs/core/Feature.java
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jar/javax/ws/rs/ext/WriterInterceptor.java

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jar/javax/ws/rs/container/DynamicFeature.java

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jar/javax/ws/rs/core/Configurable.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/client/Client.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/client/AsyncInvoker.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/ext/WriterInterceptorContext.java
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jar/javax/ws/rs/client/package-info.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/Form.java
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jar/javax/ws/rs/ProcessingException.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/client/WebTarget.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/client/ClientBuilder.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/client/SyncInvoker.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/ext/ReaderInterceptorContext.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/client/Invocation.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
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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

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* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/NewCookie.java

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* /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

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* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/EntityTag.java

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```
/**
   * Convert the supplied value to a String.
   * <p>
   * This method is reserved for future use. Proprietary JAX-RS extensions may leverage the method.
   * Users should be aware that any such support for the method comes at the expense of producing
   * non-portable code.
   * </p>
   *
   * @param value the value of type {@code T}.
   * @return a String representation of the value.
   *
   * @throws IllegalArgumentException if the supplied object cannot be
   *                        serialized or is {@code null}.
```

```
  */
```

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* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/MultivaluedMap.java

* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/GenericType.java

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* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Context.java

* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/package-info.java

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jar/javax/ws/rs/WebApplicationException.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/Response.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/CacheControl.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/MediaType.java
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* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/container/Suspended.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/FeatureContext.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/ConstrainedTo.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/RuntimeType.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/container/ConnectionCallback.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/container/TimeoutHandler.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/container/ResourceContext.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-

jar/javax/ws/rs/container/CompletionCallback.java

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jar/javax/ws/rs/container/ContainerResponseContext.java

1.266 jline 2.9

1.267 metrics-health-checks 4.1.0

1.268 slf4j 1.7.25
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* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/MarkerIgnoringBase.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/LoggerFactory.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/NOPLoggerFactory.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-

jar/org/slf4j/spi/LocationAwareLogger.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/MessageFormatter.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/NamedLoggerBase.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/spi/MarkerFactoryBinder.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/impl/StaticMDCBinder.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/SubstituteLogger.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/NOPLogger.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/impl/StaticLoggerBinder.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/Util.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/FormattingTuple.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/MarkerFactory.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/SubstituteLoggerFactory.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/Marker.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/spi/MDCAdapter.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/BasicMarker.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/NOPMDCAdapter.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/BasicMDCAdapter.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/impl/StaticMarkerBinder.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/BasicMarkerFactory.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/Logger.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/IMarkerFactory.java

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/ILoggerFactory.java

1.269 commons-collections 4.4

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1.273 shiro-config-core 1.6.0

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1.274 jetty-util 9.3.27.v20190418

1.275 hamcrest-core 1.1
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1.276 resilience4j-core 1.7.1

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* /opt/cola/permits/1343828803_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-
jar/io/github/resilience4j/core/registry/RegistryEventConsumer.java
* /opt/cola/permits/1343828803_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-
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* /opt/cola/permits/1095510603_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-
jar/org/drools/decisiontable/parser/RhsBuilder.java
* /opt/cola/permits/1095510603_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-
jar/org/drools/decisiontable/parser/SourceBuilder.java
* /opt/cola/permits/1095510603_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-
jar/org/drools/decisiontable/package-info.java
* /opt/cola/permits/1095510603_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-
jar/org/drools/decisiontable/DecisionTableProviderImpl.java

* /opt/cola/permits/1095510603_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-
jar/org/drools/decisiontable/parser/LhsBuilder.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1095510603_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/python-
dt/pydt.py

1.278 websocket-client 9.3.27.v20190418

1.279 object-cache-api 0.8.4-Beryllium-SR4

1.279.1 Available under license :

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1.280 mibble-commercial-parser 2.9.3

1.280.1 Available under license :

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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"
  CONTACT-INFO
    "Author:
            Steve Waldbusser
        Phone:  +1-650-948-6500
        Fax :   +1-650-745-0671
        Email:  waldbusser@nextbeacon.com

      Working Group Chair:
            Andy Bierman
        E-mail: ietf@andybierman.com

      Working Group Mailing List: <rmonmib@ietf.org>
      To subscribe send email to: <rmonmib-request@ietf.org>    "
  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.

       Copyright (C) The Internet Society (2006).  This version of
       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 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   HlHostControlEntry
  MAX-ACCESS not-accessible
  STATUS   current
  DESCRIPTION
    "A conceptual row in the hlHostControlTable.

    An example of the indexing of this entry is

    hlHostControlNlDroppedFrames.1"
  INDEX { hlHostControlIndex }
  ::= { hlHostControlTable 1 }

HlHostControlEntry ::= SEQUENCE {
  hlHostControlIndex   Integer32,
  hlHostControlDataSource   DataSource,
  hlHostControlNlDroppedFrames Counter32,
  hlHostControlNlInserts   Counter32,
  hlHostControlNlDeletes   Counter32,
  hlHostControlNlMaxDesiredEntries 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 }

hlHostControlNlDroppedFrames 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 }


hlHostControlNlInserts 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
    hlHostControlNlDeletes from hlHostControlNlInserts."
::= { hlHostControlEntry 4 }


hlHostControlNlDeletes 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
hlHostControlNlDeletes from hlHostControlNlInserts."
::= { hlHostControlEntry 5 }


hlHostControlNlMaxDesiredEntries 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 }


hlHostControlAlDroppedFrames 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 }

hlHostControlAlInserts 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 hlHostControlAlDeletes from hlHostControlAlInserts."
    ::= { hlHostControlEntry 8 }

hlHostControlAlDeletes 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."
    ::= { 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 NlHostEntry
  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     NlHostEntry
  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 }

NlHostEntry ::= 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
    hlMatrixControlNlDroppedFrames.1"
  INDEX { hlMatrixControlIndex }
  ::= { hlMatrixControlTable 1 }


HlMatrixControlEntry ::= SEQUENCE {
  hlMatrixControlIndex              Integer32,
  hlMatrixControlDataSource         DataSource,
  hlMatrixControlNlDroppedFrames    Counter32,
  hlMatrixControlNlInserts          Counter32,
  hlMatrixControlNlDeletes          Counter32,
  hlMatrixControlNlMaxDesiredEntries   Integer32,
  hlMatrixControlAlDroppedFrames    Counter32,
  hlMatrixControlAlInserts          Counter32,
  hlMatrixControlAlDeletes          Counter32,
  hlMatrixControlAlMaxDesiredEntries   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 }


hlMatrixControlNlDroppedFrames 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 }

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
hlMatrixControlNlDeletes from hlMatrixControlNlInserts."
    ::= { hlMatrixControlEntry 5 }

hlMatrixControlNlMaxDesiredEntries 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 }

hlMatrixControlAlDroppedFrames 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 }

hlMatrixControlAlInserts 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
hlMatrixControlAlDeletes from hlMatrixControlAlInserts."
::= { hlMatrixControlEntry 8 }

hlMatrixControlAlDeletes 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
    hlMatrixControlAlDeletes from hlMatrixControlAlInserts."
 ::= { 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 NlMatrixSDEntry
  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."
::= { 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 NlMatrixDSEntry
   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."
::= { 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."
  ::= { nlMatrixDSEntry 4 }

nlMatrixDSOctets 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
    nlMatrixDSTable (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."
  ::= { nlMatrixDSEntry 5 }

nlMatrixDSCreateTime 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 NlMatrixTopNControlEntry
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   NlMatrixTopNControlEntry
  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 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   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 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 { hlHostControlDataSource,
hlHostControlNlDroppedFrames, hlHostControlNlInserts,
hlHostControlNlDeletes,
hlHostControlNlMaxDesiredEntries,
hlHostControlAlDroppedFrames, hlHostControlAlInserts,
hlHostControlAlDeletes,
hlHostControlAlMaxDesiredEntries, 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,
hlMatrixControlNlDroppedFrames,
hlMatrixControlNlInserts, hlMatrixControlNlDeletes,
hlMatrixControlNlMaxDesiredEntries,
hlMatrixControlAlDroppedFrames,
hlMatrixControlAlInserts, hlMatrixControlAlDeletes,
hlMatrixControlAlMaxDesiredEntries,
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.

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 invaliding the
        corresponding entry in the atTable object. That
        is, it effectively dissasociates 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
        datagarms 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 dissasociates 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
        dissasociates 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/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1213-
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"
   CONTACT-INFO


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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.

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,
    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 }

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 docsCableMaclayer(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,
      docsIfCmStatusRangingAborteds   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 }


docsIfCmStatusRangingAborteds 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,
    docsIfCmtsStatusRangingAborteds   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 }

docsIfCmtsStatusRangingAborteds 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,
      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   "ThenthdBmV"
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 }

docsIfCmtsCmStatusUnerroreds 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 }

docsIfCmtsCmStatusExtUnerroreds 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 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 }

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 * (data bytes / 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..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..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,
        docsIfCmStatusRangingAborteds,
```

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,
        docsIfCmtsStatusRangingAborteds,
        docsIfCmtsStatusInvalidRegReqs,
        docsIfCmtsStatusFailedRegReqs,
        docsIfCmtsStatusInvalidDataReqs,
        docsIfCmtsStatusT5Timeouts,
        docsIfCmtsCmStatusMacAddress,
        docsIfCmtsCmStatusIpAddress,
        docsIfCmtsCmStatusDownChannelIfIndex,
        docsIfCmtsCmStatusUpChannelIfIndex,
        docsIfCmtsCmStatusRxPower,
        docsIfCmtsCmStatusTimingOffset,
        docsIfCmtsCmStatusEqualizationData,
        docsIfCmtsCmStatusValue,
        docsIfCmtsCmStatusUnerroreds,
        docsIfCmtsCmStatusCorrecteds,
        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,
        docsIfSigQUnerroreds,
        docsIfSigQCorrecteds,
        docsIfSigQUncorrectables,
        docsIfSigQSignalNoise,
        docsIfSigQMicroreflections,
        docsIfSigQExtUnerroreds,
        docsIfSigQExtCorrecteds,
        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,
        docsIfCmStatusInvalidUcds,
        docsIfCmStatusInvalidRangingResponses,
        docsIfCmStatusInvalidRegistrationResponses,
        docsIfCmStatusT1Timeouts,
        docsIfCmStatusT2Timeouts,
        docsIfCmStatusT3Timeouts,
        docsIfCmStatusT4Timeouts,
        docsIfCmStatusRangingAborteds,
        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,
docsIfCmtsStatusRangingAborteds,
docsIfCmtsStatusInvalidRegReqs,
docsIfCmtsStatusFailedRegReqs,
docsIfCmtsStatusInvalidDataReqs,
docsIfCmtsStatusT5Timeouts,
docsIfCmtsCmStatusMacAddress,
docsIfCmtsCmStatusDownChannelIfIndex,
docsIfCmtsCmStatusUpChannelIfIndex,
docsIfCmtsCmStatusRxPower,
docsIfCmtsCmStatusTimingOffset,
docsIfCmtsCmStatusEqualizationData,
docsIfCmtsCmStatusValue,
docsIfCmtsCmStatusUnerroreds,
docsIfCmtsCmStatusCorrecteds,
docsIfCmtsCmStatusUncorrectables,
docsIfCmtsCmStatusSignalNoise,
docsIfCmtsCmStatusMicroreflections,
docsIfCmtsCmStatusExtUnerroreds,
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/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.


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
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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.

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 OA
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 OA
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 OA
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 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 OA
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
 terminatingLoopack(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 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 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. 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 OA
   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
dot3OamFunctionsSuppported). 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
 dot3OamErrSymPeriodWindow = ((2^32)*dot3OamErrSymPeriodWindowHi)
                   + 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

  dot3OamErrSymPeriodWindow = ((2^32)*dot3OamErrSymPeriodWindowHi)
                  + 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

   dot3OamErrSymPeriodThreshold =
            $((2^{32}) *$ 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 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

    dot3OamErrSymPeriodThreshold =
            $((2^{32}) *$ 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:

   dot3OamEventLogWindow = ((2^32) * dot3OamEventLogWindowHi)

+ 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:

   dot3OamEventLogWindow = ((2^32) * dot3OamEventLogWindowHi)
                   + 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:

   dot3OamEventLogThreshold = ((2^32) * dot3OamEventLogThresholdHi)
                   + 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:

  dot3OamEventLogThreshold = ((2^32) * dot3OamEventLogThresholdHi)
                    + 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.

```
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
  SnmpAdminString
     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:  stjohns@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 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 $2^{(l-1)} <= xa < 2^l < p-1$. 'l' is the
optional privateValueLength from usmDHParameters in bits. If 'l'
is omitted, then xa (and xr below) is selected in the interval 0
$<= xa < p-1$. 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 <> 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 $z = g^{xr}$ 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 $2^{(l-1)} <= xr < 2^l <$
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 <> 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 $sk = z^{xa}$ MOD
p, and at the manager as $sk = y^{xr}$ 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
DHParameter 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 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) <= r < p-1 < 2^l. If l is unspecified, then r is
a random integer selected in the interval 0 <= r < p-1

The public value is expressed as an OCTET STRING 'PV' of length
'k' which satisfies

```
      k
  y =  SUM   2^(8(k-i)) PV'i
      i = 1
```

    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 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 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 interation 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 Schnier - 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),

rectifierLowFVoltage (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),

lowTemperatue (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),

lossOfRealTimel (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),

underlayingResourceUnavailable (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),
coruptData (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),
responseTimeExecessive (542),
retransmissionRateExcessive (543),
softwareErrorX733 (544),
softwareProgramAbnormallyTerminated (545),
softwareProgramError (546),
storageCapacityProblemX733 (547),
temperatureUnacceptable (548),
thresholdCrossed (549),
timingProblemX733 (550),
toxicLeakDetected (551),
transmitFailureX733 (552),
transmiterFailure (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.

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          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 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.
--
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,
        sipCommonNotifApplIndex,
        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.

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]


pktcIetfSigMib MODULE-IDENTITY
    LAST-UPDATED    "200712180000Z" -- December 18, 2007
    ORGANIZATION    "IETF IPCDN Working Group"
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        Co-Chair: Jean-Francois Mule, jf.mule@cablelabs.com
        Co-Chair: Richard Woundy, Richard_Woundy@cable.comcast.com"
```

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)
    }
```

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)
}
```

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:

pktcSigDev CodecComboIndex	pktcSigDev CodecType	pktcSigDev 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."
    ::= { pktcSigDevObjects 1 }

pktcSigDevCodecEntry OBJECT-TYPE
  SYNTAX   PktcSigDevCodecEntry
  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.
--


pktcSigDevEchoCancellation  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."
  ::= { pktcSigDevObjects 2 }


pktcSigDevSilenceSuppression  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."
::= { pktcSigDevObjects 3 }


pktcSigDevCidSigProtocol  OBJECT-TYPE
  SYNTAX       PktcSubscriberSideSigProtocol
  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:

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	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:

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

| 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
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   PktcSigDevToneEntry
  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 }

PktcSigDevToneEntry ::= SEQUENCE {
    pktcSigDevToneType   INTEGER,
    pktcSigDevToneFreqGroup   Unsigned32,
    pktcSigDevToneFreqCounter   Unsigned32,
    pktcSigDevToneWholeToneRepeatCount   Unsigned32,
    pktcSigDevToneSteady   TruthValue
    }

pktcSigDevToneType   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."
::= { pktcSigDevToneEntry 1 }

pktcSigDevToneFreqGroup 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
}
```

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 }

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   PktcSubscriberSideSigProtocol
    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 }

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,
  pktcSigEndPntConfigRingBackTO   Unsigned32,
  pktcSigEndPntConfigReorderToneTO   Unsigned32,
  pktcSigEndPntConfigStutterDialToneTO   Unsigned32,

  pktcSigEndPntConfigTSMax   Unsigned32,
  pktcSigEndPntConfigMax1   Unsigned32,
  pktcSigEndPntConfigMax2   Unsigned32,
  pktcSigEndPntConfigMax1QEnable   TruthValue,
  pktcSigEndPntConfigMax2QEnable   TruthValue,
  pktcSigEndPntConfigMWD   Unsigned32,
  pktcSigEndPntConfigTdinit   Unsigned32,
  pktcSigEndPntConfigTdmin   Unsigned32,
  pktcSigEndPntConfigTdmax   Unsigned32,

```
    pktcSigEndPntConfigRtoMax              Unsigned32,
    pktcSigEndPntConfigRtoInit             Unsigned32,
    pktcSigEndPntConfigLongDurationKeepAlive   Unsigned32,
    pktcSigEndPntConfigThist               Unsigned32,
    pktcSigEndPntConfigStatus              RowStatus,
    pktcSigEndPntConfigCallWaitingMaxRep       Unsigned32,
    pktcSigEndPntConfigCallWaitingDelay        Unsigned32,
    pktcSigEndPntStatusCallIpAddressType       InetAddressType,
    pktcSigEndPntStatusCallIpAddress           InetAddress,
    pktcSigEndPntStatusError               INTEGER,
    pktcSigEndPntConfigMinHookFlash            Unsigned32,
    pktcSigEndPntConfigMaxHookFlash            Unsigned32,
    pktcSigEndPntConfigPulseDialInterdigitTime Unsigned32,
    pktcSigEndPntConfigPulseDialMinMakeTime    Unsigned32,
    pktcSigEndPntConfigPulseDialMaxMakeTime    Unsigned32,
    pktcSigEndPntConfigPulseDialMinBreakTime   Unsigned32,
    pktcSigEndPntConfigPulseDialMaxBreakTime   Unsigned32
    }


pktcSigEndPntConfigCallAgentId    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 }

pktcSigEndPntConfigTSMax   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 }

pktcSigEndPntConfigTdmin   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 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,
```

```
        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,
     pktcSigEndPntConfigTSMax,
     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,
  pktcSigDevrpAsDtsDuration,
  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.

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
         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,

mdmCCCallSetUpFailTimer, mdmCCResultCodeEnable,
mdmCCEscapeAction, mdmCCCallDuration,
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 { mdmECErrorControlUsed }
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
        existance 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,
    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

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 occured 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 MdmECEntry
  MAX-ACCESS not-accessible
  STATUS   current
  DESCRIPTION

"The modem error correcting table augments the modem ID
table."
::= { mdmMIBObjects 9 }

mdmECEntry OBJECT-TYPE
  SYNTAX   MdmECEntry
  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 }

MdmECEntry ::= SEQUENCE {
  mdmECErrorControlUsed   OBJECT IDENTIFIER
}

mdmECErrorControlUsed 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"
  ::= { mdmECEntry 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 gstnModulationSchemeActive"
  ::= { 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
        sucessfully 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.

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
    "   Fred Baker
         Cisco Systems
         1121 Via Del Rey
         Santa Barbara, CA 93117, USA
         E-mail: fred@cisco.com

         Kwok Ho Chan
         Nortel Networks
         600 Technology Park Drive
         Billerica, MA 01821, USA
         E-mail: khchan@nortelnetworks.com

         Andrew Smith
         Harbour Networks
         Jiuling Building

         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:

      diffServMinRateRelative =
          (diffServMinRateAbsolute*1000000)/ifSpeed

    or, if appropriate:

      diffServMinRateRelative = diffServMinRateAbsolute/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:

    diffServMinRateRelative =
       (diffServMinRateAbsolute*1000000)/ifSpeed

   or, if appropriate:

    diffServMinRateRelative = diffServMinRateAbsolute/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:

      diffServMaxRateRelative =
          (diffServMaxRateAbsolute*1000000)/ifSpeed

    or, if appropriate:

      diffServMaxRateRelative = diffServMaxRateAbsolute/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:

diffServMaxRateRelative =
(diffServMaxRateAbsolute*1000000)/ifSpeed

or, if appropriate:

diffServMaxRateRelative = diffServMaxRateAbsolute/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.

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
        "   Zbigniew Kielczewski
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            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,
    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 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/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNA-NAU-MIB

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   "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).

        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
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 syncronous 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 Communtications

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

lmp (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
}

IANAtunnelType ::= 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 IANAtunnelType values is
        identical to the policy for assigning IANAifType
        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 }

```
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/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]
SnmpAdminString
    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
LAST-UPDATED "200609180000Z" -- September 18, 2006
ORGANIZATION "IETF IP over Cable Data Network Working Group"
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    Subscribe: http://www.ietf.org/mailman/listinfo/ipcdn
    Archive: ftp://ftp.ietf.org/ietf-mail-archive/ipcdn
    Co-Chair: Jean-Francois Mule, jf.mule@cablelabs.com
    Co-Chair: Richard Woundy, Richard_Woundy@cable.comcast.com"


DESCRIPTION
    "This MIB module defines the basic management object
```

for the Multimedia Terminal Adapter devices compliant
with PacketCable and IPCablecom requirements.

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
         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
-- (pktcMatDevCmsUnsolicitedMaxRetries).
-- 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,
             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 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."
MODULE DOCS-CABLE-DEVICE-MIB
  MANDATORY-GROUPS {

    docsDevSoftwareGroupV2
  }

MODULE DOCS-IETF-BPI2-MIB
  MANDATORY-GROUPS {
    docsBpi2CodeDownloadGroup
  }

  ::= { pktcMtaCompliances 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.

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
            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."
    ::= { 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 results 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 then 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.

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"
    CONTACT-INFO
        "Cheryl Krupczak (Editor, WG Advisor)
        Postal: Empire Technologies, Inc.
        541 Tenth Street NW
        Suite 169
        Atlanta, GA 30318
        USA
        Phone: (770) 384-0184
        Email: cheryl@empiretech.com

        Jon Saperia (WG Chair)
        Postal: BGS Systems, Inc.

One First Avenue
Waltham, MA 02254-9111
USA
Phone: (617) 891-0000
Email: saperia@networks.bgs.com"
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..'ffffffff'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..'ffffffff'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."
    ::= { sysApplInstallElmtEntry 2 }

sysApplInstallElmtType 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."
    ::= { sysApplInstallElmtEntry 3 }

sysApplInstallElmtDate OBJECT-TYPE
```

SYNTAX   DateAndTime
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
    "The date and time that this component was installed on
    the system."
::= { sysApplInstallElmtEntry 4 }

sysApplInstallElmtPath 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."
    ::= { sysApplInstallElmtEntry 5}

sysApplInstallElmtSizeHigh OBJECT-TYPE
    SYNTAX   Unsigned32
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
        "The installed file size in 2^32 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 2^32 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 2^32 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 2^32 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..'ffffffff'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 be
-- 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..'ffffffff'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 sysApplElmtRunInstallPkg,
-- sysApplElmtRunInvocID, and sysApplElmtRunIndex to make it easy
-- to locate all running elements of a particular invoked application
-- which has been installed on the system.

sysApplElmtRunTable OBJECT-TYPE
    SYNTAX   SEQUENCE OF SysApplElmtRunEntry
    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 sysApplElmtRunInstallPkg,
        sysApplElmtRunInvocID, and sysApplElmtRunIndex to
        facilitate the retrieval of all running elements of a
        particular invoked application which has been installed on
        the system."
    ::= { sysApplRun 3 }

sysApplElmtRunEntry OBJECT-TYPE
    SYNTAX   SysApplElmtRunEntry
    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   { sysApplElmtRunInstallPkg, sysApplElmtRunInvocID,
      sysApplElmtRunIndex }
  ::= { sysApplElmtRunTable   1 }


SysApplElmtRunEntry ::= SEQUENCE {
  sysApplElmtRunInstallPkg      Unsigned32,
  sysApplElmtRunInvocID         Unsigned32,
  sysApplElmtRunIndex           Unsigned32,
  sysApplElmtRunInstallID       Unsigned32,
  sysApplElmtRunTimeStarted     DateAndTime,
  sysApplElmtRunState           RunState,
  sysApplElmtRunName            LongUtf8String,
  sysApplElmtRunParameters      Utf8String,
  sysApplElmtRunCPU             TimeTicks,
  sysApplElmtRunMemory          Gauge32,
  sysApplElmtRunNumFiles        Gauge32,
  sysApplElmtRunUser            Utf8String
}


sysApplElmtRunInstallPkg OBJECT-TYPE
  SYNTAX      Unsigned32 (0..'ffffffff'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 sysApplInstallPkgIndex for the
    entry in the sysApplInstallPkgTable 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."
  ::= { sysApplElmtRunEntry 1 }


sysApplElmtRunInvocID OBJECT-TYPE
  SYNTAX      Unsigned32 (0..'ffffffff'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..'ffffffff'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..'ffffffff'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)."
   ::= { sysApplElmtRunEntry 6 }

sysApplElmtRunName 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'."
   ::= { sysApplElmtRunEntry 7 }

sysApplElmtRunParameters OBJECT-TYPE
   SYNTAX   Utf8String
   MAX-ACCESS read-only
   STATUS   current
   DESCRIPTION
      "The starting parameters for the process."
::= { sysApplElmtRunEntry 8 }

sysApplElmtRunCPU 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."
   ::= { sysApplElmtRunEntry 9 }

sysApplElmtRunMemory 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."

   ::= { sysApplElmtRunEntry 10 }

sysApplElmtRunNumFiles 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."
   ::= { sysApplElmtRunEntry 11 }

sysApplElmtRunUser OBJECT-TYPE
   SYNTAX   Utf8String
   MAX-ACCESS read-only
   STATUS   current
   DESCRIPTION
      "The process owner's login name (e.g. root)."
   ::= { sysApplElmtRunEntry 12 }

-- sysApplElmtPastRunTable
-- The sysApplElmtPastRunTable 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 sysApplElmtRunTable 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 sysApplElmtRunTable contains an entry for
-- every process currently executing on the system, the
-- sysApplElmtPastRunTable 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 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.

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 sysApplElmtRunIndex. Note carefully: only those
processes which could be associated with an
identified application are included in this table."
INDEX   { sysApplInstallPkgIndex, sysApplElmtPastRunInvocID,
       sysApplElmtPastRunIndex }
::= { sysApplElmtPastRunTable   1 }

SysApplElmtPastRunEntry ::= SEQUENCE {
   sysApplElmtPastRunInvocID   Unsigned32,
   sysApplElmtPastRunIndex   Unsigned32,
   sysApplElmtPastRunInstallID   Unsigned32,
   sysApplElmtPastRunTimeStarted   DateAndTime,
   sysApplElmtPastRunTimeEnded   DateAndTime,
   sysApplElmtPastRunName   LongUtf8String,
   sysApplElmtPastRunParameters   Utf8String,
   sysApplElmtPastRunCPU   TimeTicks,
   sysApplElmtPastRunMemory   Unsigned32,
   sysApplElmtPastRunNumFiles   Unsigned32,
   sysApplElmtPastRunUser   Utf8String
}

sysApplElmtPastRunInvocID OBJECT-TYPE
   SYNTAX   Unsigned32 (1..'ffffffff'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
      sysApplRunIndex for the corresponding application
      invocation in the sysApplRunTable. If the invoked
      application as a whole has terminated, it will be the
      same as the sysApplPastRunIndex."
   ::= { sysApplElmtPastRunEntry 1 }

sysApplElmtPastRunIndex OBJECT-TYPE
   SYNTAX   Unsigned32 (0..'ffffffff'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
      sysApplElmtRunIndex which was removed from the
      sysApplElmtRunTable and moved to this table
      when the element terminated.

Note: entries in this table are indexed by
sysApplElmtPastRunInvocID, sysApplElmtPastRunIndex.
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 -
sysApplElmtPastRunTable Entry Collisions' for the
conditions that would have to occur in order for a
collision to occur."
::= { sysApplElmtPastRunEntry 2 }

sysApplElmtPastRunInstallID OBJECT-TYPE
    SYNTAX   Unsigned32 (1..'ffffffff'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
        sysApplInstallElmtIndex for the application element
        of which this entry represents a previously executed
        process."
    ::= { sysApplElmtPastRunEntry 3 }

sysApplElmtPastRunTimeStarted OBJECT-TYPE
    SYNTAX   DateAndTime
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
        "The time the process was started."
    ::= { sysApplElmtPastRunEntry 4 }

sysApplElmtPastRunTimeEnded OBJECT-TYPE
    SYNTAX   DateAndTime
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
        "The time the process ended."
    ::= { sysApplElmtPastRunEntry 5 }

sysApplElmtPastRunName 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'."
   ::= { sysApplElmtPastRunEntry 6 }

sysApplElmtPastRunParameters OBJECT-TYPE
   SYNTAX   Utf8String
   MAX-ACCESS read-only
   STATUS   current
   DESCRIPTION
      "The starting parameters for the process."
   ::= { sysApplElmtPastRunEntry 7 }

sysApplElmtPastRunCPU 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."
   ::= { sysApplElmtPastRunEntry 8 }

sysApplElmtPastRunMemory OBJECT-TYPE
   SYNTAX   Unsigned32 (0..'ffffffff'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."
   ::= { sysApplElmtPastRunEntry 9 }

sysApplElmtPastRunNumFiles OBJECT-TYPE
   SYNTAX   Unsigned32 (0..'ffffffff'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."
::= { sysApplElmtPastRunEntry 10 }

sysApplElmtPastRunUser OBJECT-TYPE
    SYNTAX   Utf8String
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
        "The process owner's login name (e.g. root)."
    ::= { sysApplElmtPastRunEntry 11 }

-- Additional Scalar objects to control table sizes

sysApplPastRunMaxRows OBJECT-TYPE
    SYNTAX   Unsigned32 (0..'ffffffff'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 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..'ffffffff'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..'ffffffff'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 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..'ffffffff'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..'ffffffff'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 { sysApplElmtRunIndex, sysApplElmtRunInvocID,
        sysApplMapInstallElmtIndex }
   ::= { sysApplMapTable 1 }

SysApplMapEntry ::= SEQUENCE {
   sysApplMapInstallElmtIndex   Unsigned32,
   sysApplMapInstallPkgIndex   Unsigned32
}

sysApplMapInstallElmtIndex OBJECT-TYPE
   SYNTAX   Unsigned32 (0..'ffffffff'h)

MAX-ACCESS not-accessible
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 to an installed
   executable, the value should be '0'."
   ::= { sysApplMapEntry 1 }

sysApplMapInstallPkgIndex OBJECT-TYPE
   SYNTAX   Unsigned32 (0..'ffffffff'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 sysApplInstallPkgIndex for the
      entry in the sysApplInstallPkgTable 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."
   ::= { sysApplMapEntry 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,
            sysApplElmtRunState,
            sysApplElmtRunName,
            sysApplElmtRunParameters,
            sysApplElmtRunCPU,
            sysApplElmtRunMemory,
            sysApplElmtRunNumFiles,
            sysApplElmtRunUser,
            sysApplElmtPastRunInstallID,
            sysApplElmtPastRunTimeStarted,
            sysApplElmtPastRunTimeEnded,
            sysApplElmtPastRunName,
            sysApplElmtPastRunParameters,
            sysApplElmtPastRunCPU,
            sysApplElmtPastRunMemory,
            sysApplElmtPastRunNumFiles,
            sysApplElmtPastRunUser,

sysApplPastRunMaxRows,
                sysApplPastRunTableRemItems,
                sysApplPastRunTblTimeLimit,
                sysApplElemPastRunMaxRows,
                sysApplElemPastRunTableRemItems,
                sysApplElemPastRunTblTimeLimit,
                sysApplAgentPollInterval }
        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."
        ::= { sysApplMIBGroups 2 }

    sysApplMapGroup OBJECT-GROUP
        OBJECTS { sysApplMapInstallPkgIndex }
        STATUS current
        DESCRIPTION
            "The Map Group contains a single table, sysApplMapTable,
            that provides a backwards mapping for determining the
            invoked application, installed element, and installed
            application package given a known process identification
            number."
    ::= { sysApplMIBGroups 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.

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),

rectifierLowFVoltage (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),

lowTemperatue (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),

lossOfRealTimel (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),

underlayingResourceUnavailable (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),

applicationSubsystemFailture (501),

bandwidthReducedX733 (502),

callEstablishmentError (503),

communicationsProtocolError (504),

communicationsSubsystemFailure (505),

configurationOrCustomizationError (506),

congestionX733 (507),

coruptData (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),

responseTimeExecessive (542),

retransmissionRateExcessive (543),

softwareErrorX733 (544),

softwareProgramAbnormallyTerminated (545),

softwareProgramError (546),

storageCapacityProblemX733 (547),

temperatureUnacceptable (548),

thresholdCrossed (549),

timingProblemX733 (550),

toxicLeakDetected (551),

transmitFailureX733 (552),

transmiterFailure (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.

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
        SnmpAdminString
             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"
CONTACT-INFO
    "   Rich Woundy
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        27 Industrial Avenue
        Chelmsford, MA 01824 U.S.A.
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    E-mail: kevin.marez@motorola.com

    IETF IPCDN Working Group
    General Discussion: ipcdn@ietf.org
    Subscribe: http://www.ietf.org/mailman/listinfo/ipcdn
    Archive: ftp://ftp.ietf.org/ietf-mail-archive/ipcdn
    Co-chairs: Richard Woundy,
        richard_woundy@cable.comcast.com
        Jean-Francois Mule,
        jf.mule@cablelabs.com"

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
  maxmium 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 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 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,
      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 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 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 docsDevBaseIgmpGroup
    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.

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
        " 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/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.


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
      "WG-EMail:   snmpv3@lists.tislabs.com
       Subscribe:  snmpv3-request@lists.tislabs.com

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phone: +1 408 546-1006"
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


  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 }

snmpOutTooBigs 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.

```
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
          Subscribe: snmpv3-request@lists.tislabs.com

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   "

DESCRIPTION "The SNMP Management Architecture MIB

     Copyright (C) The Internet Society (2002). This

     version of this MIB module is part of RFC 3411;

     see the RFC itself for full legal notices.

     "

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))

SnmpSecurityModel ::= 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:

                  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)

SnmpSecurityLevel ::= 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]

  SnmpAdminString   FROM SNMP-FRAMEWORK-MIB
                    -- [RFC3411]

```
    ;


--
-- module identity
--

spdMIB MODULE-IDENTITY
  LAST-UPDATED "200702070000Z"    -- 7 February 2007
  ORGANIZATION "IETF IP Security Policy Working Group"
  CONTACT-INFO "Michael Baer
          P.O. Box 72682
          Davis, CA 95617
          Phone: +1 530 902 3131
          Email: baerm@tislabs.com

          Ricky Charlet
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          Davis, CA  95617
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          Phone: +1 770 617 3722
          Email: rstory@ipsp.revelstone.com

          Cliff Wang
          ARO
          4300 S. Miami Blvd.
          Durham, NC 27703
          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 {
  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
    spdIpsoHeaderFilterTable

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 { 'fffffffffffffffe'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
--

spdIpsoHeaderFilterTable OBJECT-TYPE
  SYNTAX   SEQUENCE OF SpdIpsoHeaderFilterEntry
  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 }

spdIpsoHeaderFilterEntry OBJECT-TYPE
  SYNTAX   SpdIpsoHeaderFilterEntry
  MAX-ACCESS not-accessible
  STATUS   current
  DESCRIPTION
    "A definition of a particular filter."
  INDEX   { spdIpsoHeadFiltName }
  ::= { spdIpsoHeaderFilterTable 1 }

SpdIpsoHeaderFilterEntry ::= SEQUENCE {
  spdIpsoHeadFiltName   SnmpAdminString,
  spdIpsoHeadFiltType   BITS,
  spdIpsoHeadFiltClassification   INTEGER,
  spdIpsoHeadFiltProtectionAuth   INTEGER,
  spdIpsoHeadFiltLastChanged   TimeStamp,
  spdIpsoHeadFiltStorageType   StorageType,
  spdIpsoHeadFiltRowStatus   RowStatus

}

spdIpsoHeadFiltName OBJECT-TYPE
  SYNTAX   SnmpAdminString (SIZE(1..32))
  MAX-ACCESS not-accessible
  STATUS   current
  DESCRIPTION
     "The administrative name for this filter."
  ::= { spdIpsoHeaderFilterEntry 1 }

spdIpsoHeadFiltType 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 spdIpsoHeadFiltClassification

      object indicates how the packet is filtered. If this object
      is set to protectionAuthority(1), the
      spdIpsoHeadFiltProtectionAuth object indicates how the
      packet is filtered."
  ::= { spdIpsoHeaderFilterEntry 2 }

spdIpsoHeadFiltClassification 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"
  ::= { spdIpsoHeaderFilterEntry 3 }

spdIpsoHeadFiltProtectionAuth 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"
::= { spdIpsoHeaderFilterEntry 4 }

spdIpsoHeadFiltLastChanged 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."

  ::= { spdIpsoHeaderFilterEntry 5 }

spdIpsoHeadFiltStorageType 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 }
  ::= { spdIpsoHeaderFilterEntry 6 }

spdIpsoHeadFiltRowStatus 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 spdIpsoHeadFiltType object are not met.
Specifically, if the spdIpsoHeadFiltType bit for
classification(0) is set, the spdIpsoHeadFiltClassification
column MUST have a valid value for the row status to be set
to active. If the spdIpsoHeadFiltType bit for
protectionAuthority(1) is set, the
spdIpsoHeadFiltProtectionAuth 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."
  ::= { spdIpsoHeaderFilterEntry 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 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   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 }

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 }

spdIpsoHeaderFilterGroup OBJECT-GROUP
    OBJECTS {
        spdIpsoHeadFiltType, spdIpsoHeadFiltClassification,
        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/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/IPSEC-SPD-
MIB
No license file was found, but licenses were detected in source scan.

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"
    CONTACT-INFO
        "Author:
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            E-mail: abierman@cisco.com


        Working Group Mailing List: <rmonmib@ietf.org>
        To subscribe send email to: <rmonmib-request@ietf.org>
        "
    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:
-- 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/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.

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
        }

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 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
      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
   }

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 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 dlswTConnOperEntrys 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 dlswTConnOperEntrys 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 dlswTConnOperEntrys 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 dlswTConnOperEntrys 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 dlswTConnOperEntrys 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
     -- ....
dlswTConnTcpOperTable OBJECT-TYPE
     SYNTAX   SEQUENCE OF DlswTConnTcpOperEntry
     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."
     ::= { dlswTConnTcp 2 }

dlswTConnTcpOperEntry OBJECT-TYPE
     SYNTAX   DlswTConnTcpOperEntry
     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 }

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 }

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 { lfs65535 }
  ::= { 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 }


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
        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 {
  dlswDirLocateMacMac   MacAddressNC,
  dlswDirLocateMacMatch   INTEGER,
  dlswDirLocateMacLocation   RowPointer
  }

dlswDirLocateMacMac OBJECT-TYPE
  SYNTAX   MacAddressNC
  MAX-ACCESS not-accessible
  STATUS   current
  DESCRIPTION
    "The MAC address to be located."
  ::= { dlswDirLocateMacEntry 1 }

dlswDirLocateMacMatch OBJECT-TYPE
  SYNTAX   INTEGER (1..255)
  MAX-ACCESS not-accessible
  STATUS   current
  DESCRIPTION
    "The order of the entries of dlswDirMacTable
    that match dlswDirLocateMacMac. 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."
  ::= { dlswDirLocateMacEntry 2 }

dlswDirLocateMacLocation 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."
  ::= { dlswCircuit 2 }

dlswCircuitEntry OBJECT-TYPE
  SYNTAX   DlswCircuitEntry
  MAX-ACCESS not-accessible
  STATUS   current
  DESCRIPTION
    ""
  INDEX { dlswCircuitS1Mac,
       dlswCircuitS1Sap,
       dlswCircuitS2Mac,
       dlswCircuitS2Sap }
  ::= { dlswCircuitTable 1 }

DlswCircuitEntry ::= SEQUENCE {
  dlswCircuitS1Mac   MacAddressNC,
  dlswCircuitS1Sap   OCTET STRING,
  dlswCircuitS1IfIndex   INTEGER,
  dlswCircuitS1DlcType   DlcType,
  dlswCircuitS1RouteInfo   OCTET STRING,
  dlswCircuitS1CircuitId   OCTET STRING,
  dlswCircuitS1Dlc   RowPointer,

  dlswCircuitS2Mac   MacAddressNC,
  dlswCircuitS2Sap   OCTET STRING,
  dlswCircuitS2Location   EndStationLocation,
  dlswCircuitS2TDomain   OBJECT IDENTIFIER,
  dlswCircuitS2TAddress   TAddress,
  dlswCircuitS2CircuitId   OCTET STRING,

  dlswCircuitOrigin   INTEGER,

```
    dlswCircuitEntryTime        TimeTicks,
    dlswCircuitStateTime        TimeTicks,
    dlswCircuitState            INTEGER,

    dlswCircuitPriority         INTEGER,

    dlswCircuitFCSendGrantedUnits   INTEGER,
    dlswCircuitFCSendCurrentWndw    INTEGER,
    dlswCircuitFCRecvGrantedUnits   INTEGER,
    dlswCircuitFCRecvCurrentWndw    INTEGER,
    dlswCircuitFCLargestRecvGranted Gauge32,
    dlswCircuitFCLargestSendGranted 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
-- ................................................
dlswCircuitDiscReasonLocal  OBJECT-TYPE
  SYNTAX    INTEGER {
    endStationDiscRcvd        (1),
    endStationDlcError        (2),
    protocolError        (3),
    operatorCommand        (4),
    haltDlRcvd        (5),
    haltDlNoAckRcvd        (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 }
   ::= { 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 {
    dlswCircuitS1IfIndex,
    dlswCircuitS1DlcType,
    dlswCircuitS1RouteInfo,
    dlswCircuitS1CircuitId,
    dlswCircuitS1Dlc,
    dlswCircuitS2Location,
    dlswCircuitS2TDomain,
    dlswCircuitS2TAddress,
    dlswCircuitS2CircuitId,
    dlswCircuitOrigin,
    dlswCircuitEntryTime,
    dlswCircuitStateTime,
    dlswCircuitState,
    dlswCircuitPriority,
    dlswCircuitFCSendGrantedUnits,
    dlswCircuitFCSendCurrentWndw,
    dlswCircuitFCRecvGrantedUnits,

```
    dlswCircuitFCRecvCurrentWndw,
    dlswCircuitFCLargestRecvGranted,
    dlswCircuitFCLargestSendGranted,
    dlswCircuitFCHalveWndwSents,
    dlswCircuitFCResetOpSents,
    dlswCircuitFCHalveWndwRcvds,
    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

1.281 okio 1.12.0

1.282 sesame-rio-n3 2.7.16

1.283 libthrift 0.9.2
1.283.1 Available under license :

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1.284 resilience4j-circuitbreaker 1.7.1

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jar/io/github/resilience4j/circuitbreaker/internal/CircuitBreakerStateMachine.java
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jar/io/github/resilience4j/circuitbreaker/internal/InMemoryCircuitBreakerRegistry.java
* /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
* /opt/cola/permits/1343828809_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-
jar/io/github/resilience4j/circuitbreaker/event/AbstractCircuitBreakerEvent.java
* /opt/cola/permits/1343828809_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-
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
* /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
* /opt/cola/permits/1343828809_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnSuccessEvent.java
* /opt/cola/permits/1343828809_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerEvent.java
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* /opt/cola/permits/1343828809_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/internal/package-info.java
* /opt/cola/permits/1343828809_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/package-info.java
* /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/internal/CircuitBreakerMetrics.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

1.285 stax-ex 1.8

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: build
Build-Jdk: 9.0.4
Implementation-Title: Extended StAX API
Implementation-Version: 1.8

Implementation-Vendor-Id: org.jvnet.staxex

Implementation-URL: http://stax-ex.java.net/

Implementation-Build-Id: ${scmBranch}-${buildNumber}, ${timestamp}

Bnd-LastModified: 1524563042303

Bundle-Description: Extensions to JSR-173 StAX API.

Bundle-License: https://glassfish.dev.java.net/public/CDDL+GPL_1_1.htm
l

Bundle-ManifestVersion: 2

Bundle-Name: Extended StAX API

Bundle-SymbolicName: org.jvnet.staxex.stax-ex

Bundle-Version: 1.8.0

Export-Package: org.jvnet.staxex;version="1.8.0";uses:="javax.activati
on,javax.xml.namespace,javax.xml.stream",org.jvnet.staxex.util;versio
n="1.8.0";uses:="javax.xml.bind.attachment,javax.xml.namespace,javax.
xml.stream,org.w3c.dom"

Import-Package: javax.activation,javax.xml.bind.attachment,javax.xml.n
amespace,javax.xml.stream,org.jvnet.staxex;version="[1.8,2)",org.w3c.
dom

Originally-Created-By: Apache Maven Bundle Plugin

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=9.0))"

Tool: Bnd-3.5.0.201709291849

Found in path(s):

* /opt/cola/permits/1526682834_1673245458.2780282/0/stax-ex-1-8-9-jar/META-INF/MANIFEST.MF

1.286 ini4j 0.5.2

1.287 model 2.5.0-b05

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1.288 annotations 2.0.1

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1.291 semargl-core 0.6.1

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jar/javax/validation/package-info.java

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jar/javax/validation/metadata/ReturnValueDescriptor.java

* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/executable/ValidateOnExecution.java
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jar/javax/validation/Valid.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/constraints/Past.java
* /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
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/metadata/ConstraintDescriptor.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/constraints/Min.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/constraints/Pattern.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/spi/ValidationProvider.java
* /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-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/ParameterNameProvider.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/metadata/ConstructorDescriptor.java
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jar/javax/validation/ConstraintViolation.java

* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/constraints/DecimalMax.java

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jar/javax/validation/groups/package-info.java

* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/ConstraintValidatorContext.java

* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/Path.java

* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/Validator.java

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jar/javax/validation/ReportAsSingleViolation.java

* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/MessageInterpolator.java

* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/metadata/BeanDescriptor.java

* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/constraints/DecimalMin.java

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jar/javax/validation/ConstraintViolationException.java
* /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
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/ValidatorContext.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/ValidatorFactory.java

1.297 owlapi-tools 4.2.7

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1.298 metrics-core 4.1.0

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* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/manager/SpringRuntimeManagerFactoryImpl.java

* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/SpringObjectModelResolver.java

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* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/KModuleSpringMarshaller.java

* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/EventListenersFactoryBean.java

* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/EventListenersUtil.java

* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/RuntimeManagerFactoryBean.java

* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/LoggerDefinitionParser.java

* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/KStoreDefinitionParser.java

* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/DefinitionParserHelper.java

* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/KieObjectsResolver.java

* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-

jar/org/kie/spring/factorybeans/RuntimeEnvironmentFactoryBean.java

* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/KModuleBeanFactoryPostProcessor.java

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* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/helper/KSessionFactoryBeanHelper.java

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* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/ReleaseIdFactoryBean.java

* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/ReleaseIdDefinitionParser.java

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* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/helper/StatefulKSessionFactoryBeanHelper.java

* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/KieSpringNamespaceHandler.java

* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/helper/StatelessKSessionFactoryBeanHelper.java

* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/EnvironmentDefinitionParser.java

* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/KieImportFactoryBean.java

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* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/annotations/AnnotationsPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/annotations/AnnotationsUtil.java
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* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/persistence/KieSpringTransactionManager.java
* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/persistence/KieSpringJpaManager.java
* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/persistence/AbstractKieSpringJpaManager.java
* /opt/ws_local/PERMITS_SQL/1069083493_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/persistence/SpringTransactionSynchronizationAdapter.java

1.300 sesame-rio-rdfxml 2.7.16

1.301 shiro-core 1.6.0

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jar/org/springframework/amqp/rabbit/core/RabbitOperations.java

* /opt/cola/permits/1147423766_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-
jar/org/springframework/amqp/rabbit/connection/ConnectionListener.java

* /opt/cola/permits/1147423766_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-
jar/org/springframework/amqp/rabbit/connection/CompositeChannelListener.java

* /opt/cola/permits/1147423766_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-
jar/org/springframework/amqp/rabbit/connection/ChannelListener.java

* /opt/cola/permits/1147423766_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-
jar/org/springframework/amqp/rabbit/connection/CompositeConnectionListener.java

* /opt/cola/permits/1147423766_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-
jar/org/springframework/amqp/rabbit/core/ChannelAwareMessageListener.java

* /opt/cola/permits/1147423766_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-

jar/org/springframework/amqp/rabbit/connection/ChannelProxy.java

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jar/org/springframework/amqp/rabbit/listener/FatalListenerExecutionException.java
* /opt/cola/permits/1147423766_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-
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jar/org/springframework/amqp/rabbit/connection/ConsumerChannelRegistry.java

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jar/org/springframework/amqp/rabbit/config/HeadersExchangeParser.java

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jar/org/springframework/amqp/rabbit/support/PublisherCallbackChannel.java

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jar/org/springframework/amqp/rabbit/connection/CachingConnectionFactory.java
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jar/org/springframework/amqp/rabbit/listener/adapter/MessageListenerAdapter.java
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*/
/**
* Special exception for listener implementations that want to signal that the current batch of messages should be
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*
* @author Dave Syer
*
*/

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jar/org/springframework/amqp/core/AbstractDeclarable.java

* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/core/FederatedExchange.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/support/converter/SimpleMessageConverter.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/core/AbstractExchange.java
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* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/remoting/client/AmqpProxyFactoryBean.java
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* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/support/converter/AbstractJsonMessageConverter.java
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* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/support/converter/DefaultClassMapper.java
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Found in path(s):
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/AmqpUnsupportedEncodingException.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/support/converter/MessageConverter.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/AnonymousQueue.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/DirectExchange.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/TopicExchange.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/FanoutExchange.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/UniquelyNamedQueue.java

* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/core/HeadersExchange.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/UncategorizedAmqpException.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/core/MessageListener.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/core/MessagePostProcessor.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/core/MessageDeliveryMode.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/AmqpException.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/AmqpIOException.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/AmqpIllegalStateException.java
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* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/core/CustomExchange.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/support/converter/SerializerMessageConverter.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/core/AcknowledgeMode.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/core/Address.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/support/converter/MessageConversionException.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/AmqpConnectException.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/core/AmqpTemplate.java

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* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/Queue.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/remoting/service/AmqpInvokerServiceExporter.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/Exchange.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/Message.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/support/converter/AbstractMessageConverter.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/Binding.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/AmqpAdmin.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/BindingBuilder.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/remoting/client/AmqpClientInterceptor.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/MessageProperties.java
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* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/utils/SerializationUtils.java

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1.305 jackson-jaxrs 2.10.4

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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
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A list of contributors may be found from CREDITS file, which is included
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1.306 objenesis 1.0
1.306.1 Available under license :

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1.307 mibble-commercial-mibs 2.9.3

1.307.1 Available under license :

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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]
  SnmpAdminString
      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
LAST-UPDATED "200609180000Z" -- September 18, 2006
ORGANIZATION "IETF IP over Cable Data Network Working Group"
CONTACT-INFO
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Co-Chair: Jean-Francois Mule, jf.mule@cablelabs.com
Co-Chair: Richard Woundy, Richard_Woundy@cable.comcast.com"

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
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
-- (pktcMatDevCmsUnsolicitedMaxRetries).
-- 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,
            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 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."
MODULE DOCS-CABLE-DEVICE-MIB
    MANDATORY-GROUPS {

        docsDevSoftwareGroupV2
    }

    MODULE DOCS-IETF-BPI2-MIB
        MANDATORY-GROUPS {
            docsBpi2CodeDownloadGroup
        }

    ::= { pktcMtaCompliances 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.

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 OA
  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 OA 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 OA 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 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 OA
   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
terminatingLoopack(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 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 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. 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 OA
   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
   dot3OamFunctionsSuppported). 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
 dot3OamErrSymPeriodWindow = ((2^32)*dot3OamErrSymPeriodWindowHi)
                 + 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

dot3OamErrSymPeriodWindow = ((2^32)*dot3OamErrSymPeriodWindowHi)
                    + 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

    dot3OamErrSymPeriodThreshold =
             ((2^32) * 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 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

    dot3OamErrSymPeriodThreshold =
            ((2^32) * 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:

   dot3OamEventLogWindow = ((2^32) * dot3OamEventLogWindowHi)
                 + 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:

dot3OamEventLogWindow = ((2^{32}) * dot3OamEventLogWindowHi)
$+$ 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:

dot3OamEventLogThreshold = ((2^{32}) * dot3OamEventLogThresholdHi)
$+$ 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.

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
            "    Zbigniew Kielczewski
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                Tel:   1 408 747 4305
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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 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,
    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 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.

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.

```
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
         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,
    mdmCCCallSetUpFailTimer, mdmCCResultCodeEnable,
    mdmCCEscapeAction, mdmCCCallDuration,
    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 { mdmECErrorControlUsed }
  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
      existance 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,
    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

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 occured 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 MdmECEntry
   MAX-ACCESS  not-accessible
```

```
    STATUS    current
    DESCRIPTION
        "The modem error correcting table augments the modem ID
        table."
    ::= { mdmMIBObjects 9 }


mdmECEntry OBJECT-TYPE
    SYNTAX    MdmECEntry
    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 }


MdmECEntry ::= SEQUENCE {
    mdmECErrorControlUsed        OBJECT IDENTIFIER
}


mdmECErrorControlUsed 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"
    ::= { mdmECEntry 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 gstnModulationSchemeActive"
::= { 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
      sucessfully 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.

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
  ORGANIZATION "IETF IP Security Policy Working Group"
  CONTACT-INFO "Michael Baer
          P.O. Box 72682
          Davis, CA 95617
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          Robert Story
          Revelstone Software
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          Tucker, GA 30085
          Phone: +1 770 617 3722
          Email: rstory@ipsp.revelstone.com
```

           Cliff Wang
           ARO
           4300 S. Miami Blvd.
           Durham, NC 27703
           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 {
   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
            spdIpsoHeaderFilterTable

      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 { 'fffffffffffffffe'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
--

spdIpsoHeaderFilterTable OBJECT-TYPE
  SYNTAX   SEQUENCE OF SpdIpsoHeaderFilterEntry
  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 }

spdIpsoHeaderFilterEntry OBJECT-TYPE
  SYNTAX   SpdIpsoHeaderFilterEntry
  MAX-ACCESS not-accessible
  STATUS   current

DESCRIPTION
    "A definition of a particular filter."
    INDEX   { spdIpsoHeadFiltName }
    ::= { spdIpsoHeaderFilterTable 1 }

SpdIpsoHeaderFilterEntry ::= SEQUENCE {
    spdIpsoHeadFiltName   SnmpAdminString,
    spdIpsoHeadFiltType   BITS,
    spdIpsoHeadFiltClassification   INTEGER,
    spdIpsoHeadFiltProtectionAuth   INTEGER,
    spdIpsoHeadFiltLastChanged   TimeStamp,
    spdIpsoHeadFiltStorageType   StorageType,
    spdIpsoHeadFiltRowStatus   RowStatus
}

spdIpsoHeadFiltName OBJECT-TYPE
    SYNTAX   SnmpAdminString (SIZE(1..32))
    MAX-ACCESS not-accessible
    STATUS   current
    DESCRIPTION
        "The administrative name for this filter."
    ::= { spdIpsoHeaderFilterEntry 1 }

spdIpsoHeadFiltType 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 spdIpsoHeadFiltClassification

        object indicates how the packet is filtered. If this object
        is set to protectionAuthority(1), the
        spdIpsoHeadFiltProtectionAuth object indicates how the
        packet is filtered."
    ::= { spdIpsoHeaderFilterEntry 2 }

spdIpsoHeadFiltClassification 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"
::= { spdIpsoHeaderFilterEntry 3 }

spdIpsoHeadFiltProtectionAuth 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"
   ::= { spdIpsoHeaderFilterEntry 4 }

spdIpsoHeadFiltLastChanged 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."

   ::= { spdIpsoHeaderFilterEntry 5 }

spdIpsoHeadFiltStorageType 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 }
::= { spdIpsoHeaderFilterEntry 6 }

spdIpsoHeadFiltRowStatus 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 spdIpsoHeadFiltType object are not met.
Specifically, if the spdIpsoHeadFiltType bit for
classification(0) is set, the spdIpsoHeadFiltClassification
column MUST have a valid value for the row status to be set
to active. If the spdIpsoHeadFiltType bit for
protectionAuthority(1) is set, the
spdIpsoHeadFiltProtectionAuth 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."
::= { spdIpsoHeaderFilterEntry 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 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   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 }

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 }


spdIpsoHeaderFilterGroup OBJECT-GROUP
   OBJECTS {
      spdIpsoHeadFiltType, spdIpsoHeadFiltClassification,
      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),
            rectifierLowFVoltage (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),
            lowTemperatue (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),

lossOfRealTimel (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),

underlayingResourceUnavailable (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),

applicationSubsystemFailture (501),

bandwidthReducedX733 (502),

callEstablishmentError (503),

communicationsProtocolError (504),

communicationsSubsystemFailure (505),

configurationOrCustomizationError (506),

congestionX733 (507),

coruptData (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),

responseTimeExecessive (542),

retransmissionRateExcessive (543),

softwareErrorX733 (544),

softwareProgramAbnormallyTerminated (545),

softwareProgramError (546),

storageCapacityProblemX733 (547),

temperatureUnacceptable (548),

thresholdCrossed (549),

timingProblemX733 (550),

toxicLeakDetected (551),

transmitFailureX733 (552),

transmiterFailure (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.

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"
    CONTACT-INFO
        "Cheryl Krupczak (Editor, WG Advisor)
        Postal: Empire Technologies, Inc.
        541 Tenth Street NW
        Suite 169
        Atlanta, GA 30318
        USA
        Phone: (770) 384-0184
        Email: cheryl@empiretech.com

        Jon Saperia (WG Chair)
        Postal: BGS Systems, Inc.
        One First Avenue
        Waltham, MA 02254-9111
        USA
        Phone: (617) 891-0000
        Email: saperia@networks.bgs.com"
    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..'ffffffff'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..'ffffffff'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."
   ::= { sysApplInstallElmtEntry 2 }

sysApplInstallElmtType 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."
   ::= { sysApplInstallElmtEntry 3 }

sysApplInstallElmtDate OBJECT-TYPE
   SYNTAX   DateAndTime
   MAX-ACCESS read-only
   STATUS   current
   DESCRIPTION
      "The date and time that this component was installed on
      the system."
   ::= { sysApplInstallElmtEntry 4 }

sysApplInstallElmtPath 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."
    ::= { sysApplInstallElmtEntry 5 }

sysApplInstallElmtSizeHigh OBJECT-TYPE
    SYNTAX   Unsigned32
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
        "The installed file size in 2^32 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 2^32 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 2^32 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 2^32 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..'ffffffff'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 be
-- 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..'ffffffff'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 sysApplElmtRunInstallPkg,
-- sysApplElmtRunInvocID, and sysApplElmtRunIndex to make it easy
-- to locate all running elements of a particular invoked application
-- which has been installed on the system.
```

sysApplElmtRunTable OBJECT-TYPE
   SYNTAX   SEQUENCE OF SysApplElmtRunEntry
   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 sysApplElmtRunInstallPkg,
      sysApplElmtRunInvocID, and sysApplElmtRunIndex to
      facilitate the retrieval of all running elements of a
      particular invoked application which has been installed on
      the system."
   ::= { sysApplRun 3 }

sysApplElmtRunEntry OBJECT-TYPE
   SYNTAX   SysApplElmtRunEntry
   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   { sysApplElmtRunInstallPkg, sysApplElmtRunInvocID,
        sysApplElmtRunIndex }
   ::= { sysApplElmtRunTable 1 }

SysApplElmtRunEntry ::= SEQUENCE {
   sysApplElmtRunInstallPkg   Unsigned32,
   sysApplElmtRunInvocID   Unsigned32,
   sysApplElmtRunIndex   Unsigned32,
   sysApplElmtRunInstallID   Unsigned32,
   sysApplElmtRunTimeStarted   DateAndTime,
   sysApplElmtRunState   RunState,
   sysApplElmtRunName   LongUtf8String,

```
    sysApplElmtRunParameters       Utf8String,
    sysApplElmtRunCPU              TimeTicks,
    sysApplElmtRunMemory           Gauge32,
    sysApplElmtRunNumFiles         Gauge32,
    sysApplElmtRunUser             Utf8String
}


sysApplElmtRunInstallPkg OBJECT-TYPE
    SYNTAX     Unsigned32 (0..'ffffffff'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 sysApplInstallPkgIndex for the
        entry in the sysApplInstallPkgTable 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."
    ::= { sysApplElmtRunEntry 1 }


sysApplElmtRunInvocID OBJECT-TYPE
    SYNTAX     Unsigned32 (0..'ffffffff'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..'ffffffff'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..'ffffffff'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)."
   ::= { sysApplElmtRunEntry 6 }

sysApplElmtRunName 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'."
::= { sysApplElmtRunEntry 7 }

sysApplElmtRunParameters OBJECT-TYPE
   SYNTAX   Utf8String
   MAX-ACCESS read-only
   STATUS   current
   DESCRIPTION
      "The starting parameters for the process."
::= { sysApplElmtRunEntry 8 }

sysApplElmtRunCPU 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."
   ::= { sysApplElmtRunEntry 9 }

sysApplElmtRunMemory 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."

   ::= { sysApplElmtRunEntry 10 }

sysApplElmtRunNumFiles 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."
::= { sysApplElmtRunEntry 11 }

sysApplElmtRunUser OBJECT-TYPE
    SYNTAX   Utf8String
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
        "The process owner's login name (e.g. root)."
    ::= { sysApplElmtRunEntry 12 }

-- sysApplElmtPastRunTable
-- The sysApplElmtPastRunTable 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 sysApplElmtRunTable 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 sysApplElmtRunTable contains an entry for
-- every process currently executing on the system, the
-- sysApplElmtPastRunTable 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 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.

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 sysApplElmtRunIndex. Note carefully: only those
        processes which could be associated with an
        identified application are included in this table."
    INDEX   { sysApplInstallPkgIndex, sysApplElmtPastRunInvocID,
            sysApplElmtPastRunIndex }
    ::= { sysApplElmtPastRunTable   1 }

SysApplElmtPastRunEntry ::= SEQUENCE {
    sysApplElmtPastRunInvocID   Unsigned32,
    sysApplElmtPastRunIndex   Unsigned32,
    sysApplElmtPastRunInstallID   Unsigned32,
    sysApplElmtPastRunTimeStarted   DateAndTime,

```
        sysApplElmtPastRunTimeEnded       DateAndTime,
        sysApplElmtPastRunName        LongUtf8String,
        sysApplElmtPastRunParameters      Utf8String,
        sysApplElmtPastRunCPU         TimeTicks,
        sysApplElmtPastRunMemory        Unsigned32,
        sysApplElmtPastRunNumFiles       Unsigned32,
        sysApplElmtPastRunUser        Utf8String
    }
```

sysApplElmtPastRunInvocID OBJECT-TYPE
    SYNTAX   Unsigned32 (1..'ffffffff'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
        sysApplRunIndex for the corresponding application
        invocation in the sysApplRunTable. If the invoked
        application as a whole has terminated, it will be the
        same as the sysApplPastRunIndex."
    ::= { sysApplElmtPastRunEntry 1 }

sysApplElmtPastRunIndex OBJECT-TYPE
    SYNTAX   Unsigned32 (0..'ffffffff'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
        sysApplElmtRunIndex which was removed from the
        sysApplElmtRunTable and moved to this table
        when the element terminated.

        Note: entries in this table are indexed by
        sysApplElmtPastRunInvocID, sysApplElmtPastRunIndex.
        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 -

sysApplElmtPastRunTable Entry Collisions' for the
conditions that would have to occur in order for a
collision to occur."
::= { sysApplElmtPastRunEntry 2 }

sysApplElmtPastRunInstallID OBJECT-TYPE
   SYNTAX   Unsigned32 (1..'ffffffff'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
      sysApplInstallElmtIndex for the application element
      of which this entry represents a previously executed
      process."
   ::= { sysApplElmtPastRunEntry 3 }

sysApplElmtPastRunTimeStarted OBJECT-TYPE
   SYNTAX   DateAndTime
   MAX-ACCESS read-only
   STATUS   current
   DESCRIPTION
      "The time the process was started."
   ::= { sysApplElmtPastRunEntry 4 }

sysApplElmtPastRunTimeEnded OBJECT-TYPE
   SYNTAX   DateAndTime
   MAX-ACCESS read-only
   STATUS   current
   DESCRIPTION
      "The time the process ended."
   ::= { sysApplElmtPastRunEntry 5 }

sysApplElmtPastRunName 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'."
   ::= { sysApplElmtPastRunEntry 6 }

sysApplElmtPastRunParameters OBJECT-TYPE
   SYNTAX   Utf8String
   MAX-ACCESS read-only

STATUS   current
DESCRIPTION
   "The starting parameters for the process."
::= { sysApplElmtPastRunEntry 7 }

sysApplElmtPastRunCPU 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."
   ::= { sysApplElmtPastRunEntry 8 }

sysApplElmtPastRunMemory OBJECT-TYPE
   SYNTAX   Unsigned32 (0..'ffffffff'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."
   ::= { sysApplElmtPastRunEntry 9 }

sysApplElmtPastRunNumFiles OBJECT-TYPE
   SYNTAX   Unsigned32 (0..'ffffffff'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."
   ::= { sysApplElmtPastRunEntry 10 }

sysApplElmtPastRunUser OBJECT-TYPE
   SYNTAX   Utf8String
   MAX-ACCESS read-only
   STATUS   current
   DESCRIPTION
      "The process owner's login name (e.g. root)."
   ::= { sysApplElmtPastRunEntry 11 }

-- Additional Scalar objects to control table sizes

sysApplPastRunMaxRows OBJECT-TYPE
    SYNTAX   Unsigned32 (0..'ffffffff'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 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..'ffffffff'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..'ffffffff'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 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..'ffffffff'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..'ffffffff'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 { sysApplElmtRunIndex, sysApplElmtRunInvocID,
        sysApplMapInstallElmtIndex }
  ::= { sysApplMapTable 1 }

SysApplMapEntry ::= SEQUENCE {
  sysApplMapInstallElmtIndex   Unsigned32,
  sysApplMapInstallPkgIndex   Unsigned32
}

sysApplMapInstallElmtIndex OBJECT-TYPE
  SYNTAX   Unsigned32 (0..'ffffffff'h)
  MAX-ACCESS not-accessible
  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 to an installed
     executable, the value should be '0'."
  ::= { sysApplMapEntry 1 }

sysApplMapInstallPkgIndex OBJECT-TYPE
  SYNTAX   Unsigned32 (0..'ffffffff'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 sysApplInstallPkgIndex for the
    entry in the sysApplInstallPkgTable 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."
  ::= { sysApplMapEntry 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,
                    sysApplElmtRunState,
                    sysApplElmtRunName,
                    sysApplElmtRunParameters,
                    sysApplElmtRunCPU,
                    sysApplElmtRunMemory,
                    sysApplElmtRunNumFiles,
                    sysApplElmtRunUser,
                    sysApplElmtPastRunInstallID,
                    sysApplElmtPastRunTimeStarted,
                    sysApplElmtPastRunTimeEnded,
                    sysApplElmtPastRunName,
                    sysApplElmtPastRunParameters,
                    sysApplElmtPastRunCPU,
                    sysApplElmtPastRunMemory,
                    sysApplElmtPastRunNumFiles,
                    sysApplElmtPastRunUser,
                    sysApplPastRunMaxRows,
                    sysApplPastRunTableRemItems,
                    sysApplPastRunTblTimeLimit,
                    sysApplElemPastRunMaxRows,
                    sysApplElemPastRunTableRemItems,
                    sysApplElemPastRunTblTimeLimit,
                    sysApplAgentPollInterval }
            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."
            ::= { sysApplMIBGroups 2 }

sysApplMapGroup OBJECT-GROUP
  OBJECTS { sysApplMapInstallPkgIndex }
  STATUS current
  DESCRIPTION
    "The Map Group contains a single table, sysApplMapTable,
    that provides a backwards mapping for determining the
    invoked application, installed element, and installed
    application package given a known process identification
    number."
  ::= { sysApplMIBGroups 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

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))

SnmpSecurityModel ::= 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:

                  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)

SnmpSecurityLevel ::= 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/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.

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
      "WG-EMail: snmpv3@lists.tislabs.com
       Subscribe: snmpv3-request@lists.tislabs.com

       Co-Chair: Russ Mundy
               Network Associates Laboratories
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                        USA
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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

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 }

snmpOutTooBigs 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/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.

```
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),

rectifierLowFVoltage (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),

lowTemperatue (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),

lossOfRealTimel (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),

underlayingResourceUnavailable (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),
applicationSubsystemFailture (501),
bandwidthReducedX733 (502),
callEstablishmentError (503),
communicationsProtocolError (504),
communicationsSubsystemFailure (505),
configurationOrCustomizationError (506),
congestionX733 (507),
coruptData (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),

responseTimeExecessive (542),

retransmissionRateExcessive (543),

softwareErrorX733 (544),

softwareProgramAbnormallyTerminated (545),

softwareProgramError (546),

storageCapacityProblemX733 (547),

temperatureUnacceptable (548),

thresholdCrossed (549),

timingProblemX733 (550),

toxicLeakDetected (551),

transmitFailureX733 (552),

transmiterFailure (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.

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"
  CONTACT-INFO
    "Author:

          Steve Waldbusser
       Phone: +1-650-948-6500
       Fax :   +1-650-745-0671
       Email: waldbusser@nextbeacon.com

     Working Group Chair:
          Andy Bierman
       E-mail: ietf@andybierman.com

     Working Group Mailing List: <rmonmib@ietf.org>
     To subscribe send email to: <rmonmib-request@ietf.org>   "
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.

     Copyright (C) The Internet Society (2006). This version of
     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 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   HlHostControlEntry
  MAX-ACCESS not-accessible
  STATUS   current
  DESCRIPTION
    "A conceptual row in the hlHostControlTable.

    An example of the indexing of this entry is

    hlHostControlNlDroppedFrames.1"
  INDEX { hlHostControlIndex }
  ::= { hlHostControlTable 1 }

HlHostControlEntry ::= SEQUENCE {
  hlHostControlIndex   Integer32,
  hlHostControlDataSource   DataSource,
  hlHostControlNlDroppedFrames   Counter32,
  hlHostControlNlInserts   Counter32,
  hlHostControlNlDeletes   Counter32,
  hlHostControlNlMaxDesiredEntries 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 }

hlHostControlNlDroppedFrames 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 }

hlHostControlNlInserts 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 hlHostControlNlDeletes from hlHostControlNlInserts."
  ::= { hlHostControlEntry 4 }

hlHostControlNlDeletes 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

hlHostControlNlDeletes from hlHostControlNlInserts."
  ::= { hlHostControlEntry 5 }

hlHostControlNlMaxDesiredEntries 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 }

hlHostControlAlDroppedFrames 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 }

hlHostControlAlInserts 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
    hlHostControlAlDeletes from hlHostControlAlInserts."
  ::= { hlHostControlEntry 8 }

hlHostControlAlDeletes 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."
  ::= { 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 NlHostEntry
    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   NlHostEntry
    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 }

NlHostEntry ::= 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
        hlMatrixControlNlDroppedFrames.1"
    INDEX { hlMatrixControlIndex }
    ::= { hlMatrixControlTable 1 }

HlMatrixControlEntry ::= SEQUENCE {
    hlMatrixControlIndex   Integer32,
    hlMatrixControlDataSource   DataSource,
    hlMatrixControlNlDroppedFrames   Counter32,
    hlMatrixControlNlInserts   Counter32,
    hlMatrixControlNlDeletes   Counter32,
    hlMatrixControlNlMaxDesiredEntries   Integer32,
    hlMatrixControlAlDroppedFrames   Counter32,
    hlMatrixControlAlInserts   Counter32,
    hlMatrixControlAlDeletes   Counter32,
    hlMatrixControlAlMaxDesiredEntries   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 }

hlMatrixControlNlDroppedFrames 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 }

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
hlMatrixControlNlDeletes from hlMatrixControlNlInserts."
::= { hlMatrixControlEntry 5 }

hlMatrixControlNlMaxDesiredEntries 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 }

hlMatrixControlAlDroppedFrames 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 }

hlMatrixControlAlInserts 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
    hlMatrixControlAlDeletes from hlMatrixControlAlInserts."
  ::= { hlMatrixControlEntry 8 }

hlMatrixControlAlDeletes 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
hlMatrixControlAlDeletes from hlMatrixControlAlInserts."
::= { 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 NlMatrixSDEntry
  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."
  ::= { 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 NlMatrixDSEntry
  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."
```

::= { 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."
  ::= { nlMatrixDSEntry 4 }

nlMatrixDSOctets 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
    nlMatrixDSTable (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."
  ::= { nlMatrixDSEntry 5 }

nlMatrixDSCreateTime 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 NlMatrixTopNControlEntry
  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   NlMatrixTopNControlEntry
  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 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   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 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 { hlHostControlDataSource,
        hlHostControlNlDroppedFrames, hlHostControlNlInserts,
        hlHostControlNlDeletes,
        hlHostControlNlMaxDesiredEntries,
        hlHostControlAlDroppedFrames, hlHostControlAlInserts,
        hlHostControlAlDeletes,
        hlHostControlAlMaxDesiredEntries, 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,
        hlMatrixControlNlDroppedFrames,
        hlMatrixControlNlInserts, hlMatrixControlNlDeletes,
        hlMatrixControlNlMaxDesiredEntries,
        hlMatrixControlAlDroppedFrames,
        hlMatrixControlAlInserts, hlMatrixControlAlDeletes,
        hlMatrixControlAlMaxDesiredEntries,
        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/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.

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
    SnmpAdminString
        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
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    DESCRIPTION
     "This is the MIB Module for DOCSIS-compliant cable modems
```

and cable-modem termination systems.

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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
    maxmium 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 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 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,
    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 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 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 docsDevBaseIgmpGroup
    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/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.

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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Co-chairs: Richard Woundy, Richard_Woundy@cable.comcast.com
           Jean-Francois Mule, jf.mule@cablelabs.com"
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,
    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 }

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 docsCableMaclayer(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,
                docsIfCmStatusRangingAborteds    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 }

docsIfCmStatusRangingAborteds 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,
        docsIfCmtsStatusRangingAborteds         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 }

docsIfCmtsStatusRangingAborteds 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,
        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   "ThenthdBmV"
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 }

docsIfCmtsCmStatusUnerroreds 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 }

docsIfCmtsCmStatusExtUnerroreds 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 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 }


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 * (data bytes / 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 }

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-- MIB Compliance statements.

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--

-- Conformance definitions

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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..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,
         docsIfCmStatusRangingAborteds,
         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,
      docsIfCmtsStatusRangingAborteds,
      docsIfCmtsStatusInvalidRegReqs,
      docsIfCmtsStatusFailedRegReqs,
      docsIfCmtsStatusInvalidDataReqs,
      docsIfCmtsStatusT5Timeouts,
      docsIfCmtsCmStatusMacAddress,
      docsIfCmtsCmStatusIpAddress,
      docsIfCmtsCmStatusDownChannelIfIndex,
      docsIfCmtsCmStatusUpChannelIfIndex,
```

```
        docsIfCmtsCmStatusRxPower,
        docsIfCmtsCmStatusTimingOffset,
        docsIfCmtsCmStatusEqualizationData,
        docsIfCmtsCmStatusValue,
        docsIfCmtsCmStatusUnerroreds,
        docsIfCmtsCmStatusCorrecteds,
        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,
      docsIfSigQUnerroreds,
      docsIfSigQCorrecteds,
      docsIfSigQUncorrectables,
      docsIfSigQSignalNoise,
      docsIfSigQMicroreflections,

```
        docsIfSigQExtUnerroreds,
        docsIfSigQExtCorrecteds,
        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,
        docsIfCmStatusInvalidUcds,
        docsIfCmStatusInvalidRangingResponses,
        docsIfCmStatusInvalidRegistrationResponses,
        docsIfCmStatusT1Timeouts,
        docsIfCmStatusT2Timeouts,
        docsIfCmStatusT3Timeouts,
        docsIfCmStatusT4Timeouts,
        docsIfCmStatusRangingAborteds,
        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,
        docsIfCmtsStatusRangingAborteds,
        docsIfCmtsStatusInvalidRegReqs,
        docsIfCmtsStatusFailedRegReqs,
        docsIfCmtsStatusInvalidDataReqs,
        docsIfCmtsStatusT5Timeouts,
        docsIfCmtsCmStatusMacAddress,
        docsIfCmtsCmStatusDownChannelIfIndex,
        docsIfCmtsCmStatusUpChannelIfIndex,
        docsIfCmtsCmStatusRxPower,
        docsIfCmtsCmStatusTimingOffset,
        docsIfCmtsCmStatusEqualizationData,
        docsIfCmtsCmStatusValue,
        docsIfCmtsCmStatusUnerroreds,
        docsIfCmtsCmStatusCorrecteds,
        docsIfCmtsCmStatusUncorrectables,
        docsIfCmtsCmStatusSignalNoise,
        docsIfCmtsCmStatusMicroreflections,
        docsIfCmtsCmStatusExtUnerroreds,
        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.


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]


pktcIetfSigMib MODULE-IDENTITY
  LAST-UPDATED    "200712180000Z" -- December 18, 2007
  ORGANIZATION    "IETF IPCDN Working Group"
  CONTACT-INFO
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  IETF IPCDN Working Group
     General Discussion: ipcdn@ietf.org
     Subscribe: http://www.ietf.org/mailman/listinfo/ipcdn
     Archive: ftp://ftp.ietf.org/ietf-mail-archive/ipcdn
     Co-Chair: Jean-Francois Mule, jf.mule@cablelabs.com
     Co-Chair: Richard Woundy, Richard_Woundy@cable.comcast.com"
```

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)
  }


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)
   }

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:

pktcSigDev CodecComboIndex	pktcSigDev CodecType	pktcSigDev 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."
::= { pktcSigDevObjects 1 }

pktcSigDevCodecEntry OBJECT-TYPE
  SYNTAX   PktcSigDevCodecEntry
  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.
--

pktcSigDevEchoCancellation  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."
  ::= { pktcSigDevObjects 2 }

pktcSigDevSilenceSuppression 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."
  ::= { pktcSigDevObjects 3 }

pktcSigDevCidSigProtocol OBJECT-TYPE
  SYNTAX   PktcSubscriberSideSigProtocol
  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:

```
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   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:

| 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 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   PktcSigDevToneEntry
   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 }

PktcSigDevToneEntry ::= SEQUENCE {
  pktcSigDevToneType   INTEGER,
  pktcSigDevToneFreqGroup   Unsigned32,
  pktcSigDevToneFreqCounter   Unsigned32,
  pktcSigDevToneWholeToneRepeatCount   Unsigned32,
  pktcSigDevToneSteady   TruthValue
  }

pktcSigDevToneType   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."
 ::= { pktcSigDevToneEntry 1 }

pktcSigDevToneFreqGroup 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
}

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 }

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   PktcSubscriberSideSigProtocol
    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 }

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,
  pktcSigEndPntConfigRingBackTO   Unsigned32,
  pktcSigEndPntConfigReorderToneTO   Unsigned32,
  pktcSigEndPntConfigStutterDialToneTO   Unsigned32,

  pktcSigEndPntConfigTSMax   Unsigned32,
  pktcSigEndPntConfigMax1   Unsigned32,
  pktcSigEndPntConfigMax2   Unsigned32,
  pktcSigEndPntConfigMax1QEnable   TruthValue,
  pktcSigEndPntConfigMax2QEnable   TruthValue,
  pktcSigEndPntConfigMWD   Unsigned32,
  pktcSigEndPntConfigTdinit   Unsigned32,
  pktcSigEndPntConfigTdmin   Unsigned32,
  pktcSigEndPntConfigTdmax   Unsigned32,
  pktcSigEndPntConfigRtoMax   Unsigned32,

```
        pktcSigEndPntConfigRtoInit              Unsigned32,
        pktcSigEndPntConfigLongDurationKeepAlive   Unsigned32,
        pktcSigEndPntConfigThist                Unsigned32,
        pktcSigEndPntConfigStatus               RowStatus,
        pktcSigEndPntConfigCallWaitingMaxRep      Unsigned32,
        pktcSigEndPntConfigCallWaitingDelay       Unsigned32,
        pktcSigEndPntStatusCallIpAddressType      InetAddressType,
        pktcSigEndPntStatusCallIpAddress          InetAddress,
        pktcSigEndPntStatusError                INTEGER,
        pktcSigEndPntConfigMinHookFlash           Unsigned32,
        pktcSigEndPntConfigMaxHookFlash           Unsigned32,
        pktcSigEndPntConfigPulseDialInterdigitTime Unsigned32,
        pktcSigEndPntConfigPulseDialMinMakeTime    Unsigned32,
        pktcSigEndPntConfigPulseDialMaxMakeTime    Unsigned32,
        pktcSigEndPntConfigPulseDialMinBreakTime   Unsigned32,
        pktcSigEndPntConfigPulseDialMaxBreakTime   Unsigned32
        }


pktcSigEndPntConfigCallAgentId    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 }

pktcSigEndPntConfigTSMax   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 }

pktcSigEndPntConfigTdmin    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 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,
  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,
  pktcSigEndPntConfigTSMax,
  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,
    pktcSigDevrpAsDtsDuration,
    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/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.


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"
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  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
      }


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 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
    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 { 'AA000000000000000000000000000000'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
        }

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 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 dlswTConnOperEntrys 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 dlswTConnOperEntrys 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 dlswTConnOperEntrys 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 dlswTConnOperEntrys 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 dlswTConnOperEntrys 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
-- ....
dlswTConnTcpOperTable OBJECT-TYPE
  SYNTAX   SEQUENCE OF DlswTConnTcpOperEntry
  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."
  ::= { dlswTConnTcp 2 }

dlswTConnTcpOperEntry OBJECT-TYPE
  SYNTAX   DlswTConnTcpOperEntry
  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 }


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 }

```
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 { lfs65535 }
  ::= { 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 }

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
        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 {
  dlswDirLocateMacMac   MacAddressNC,
  dlswDirLocateMacMatch   INTEGER,
  dlswDirLocateMacLocation   RowPointer
  }

dlswDirLocateMacMac OBJECT-TYPE
  SYNTAX   MacAddressNC
  MAX-ACCESS not-accessible
  STATUS   current
  DESCRIPTION
    "The MAC address to be located."
  ::= { dlswDirLocateMacEntry 1 }

dlswDirLocateMacMatch OBJECT-TYPE
  SYNTAX   INTEGER (1..255)
  MAX-ACCESS not-accessible
  STATUS   current
  DESCRIPTION
    "The order of the entries of dlswDirMacTable
    that match dlswDirLocateMacMac. 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."
  ::= { dlswDirLocateMacEntry 2 }

dlswDirLocateMacLocation 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."
    ::= { dlswCircuit 2 }

dlswCircuitEntry OBJECT-TYPE
  SYNTAX   DlswCircuitEntry
  MAX-ACCESS not-accessible
  STATUS   current
  DESCRIPTION
      ""
  INDEX   { dlswCircuitS1Mac,
        dlswCircuitS1Sap,
        dlswCircuitS2Mac,
        dlswCircuitS2Sap }
    ::= { dlswCircuitTable 1 }

DlswCircuitEntry ::= SEQUENCE {
  dlswCircuitS1Mac   MacAddressNC,
  dlswCircuitS1Sap   OCTET STRING,
  dlswCircuitS1IfIndex   INTEGER,
  dlswCircuitS1DlcType   DlcType,
  dlswCircuitS1RouteInfo   OCTET STRING,
  dlswCircuitS1CircuitId   OCTET STRING,
  dlswCircuitS1Dlc   RowPointer,

  dlswCircuitS2Mac   MacAddressNC,
  dlswCircuitS2Sap   OCTET STRING,
  dlswCircuitS2Location   EndStationLocation,
  dlswCircuitS2TDomain   OBJECT IDENTIFIER,
  dlswCircuitS2TAddress   TAddress,
  dlswCircuitS2CircuitId   OCTET STRING,

  dlswCircuitOrigin   INTEGER,

  dlswCircuitEntryTime   TimeTicks,
  dlswCircuitStateTime   TimeTicks,
  dlswCircuitState   INTEGER,

  dlswCircuitPriority   INTEGER,

  dlswCircuitFCSendGrantedUnits   INTEGER,
  dlswCircuitFCSendCurrentWndw   INTEGER,

```
    dlswCircuitFCRecvGrantedUnits   INTEGER,
    dlswCircuitFCRecvCurrentWndw    INTEGER,
    dlswCircuitFCLargestRecvGranted Gauge32,
    dlswCircuitFCLargestSendGranted 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
-- ....
dlswCircuitDiscReasonLocal OBJECT-TYPE
  SYNTAX   INTEGER {
    endStationDiscRcvd   (1),
    endStationDlcError   (2),
    protocolError   (3),

```
        operatorCommand          (4),
        haltDlRcvd          (5),
        haltDlNoAckRcvd          (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 }
  ::= { 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  {
        dlswCircuitS1IfIndex,
        dlswCircuitS1DlcType,
        dlswCircuitS1RouteInfo,
        dlswCircuitS1CircuitId,
        dlswCircuitS1Dlc,
        dlswCircuitS2Location,
        dlswCircuitS2TDomain,
        dlswCircuitS2TAddress,
        dlswCircuitS2CircuitId,
        dlswCircuitOrigin,
        dlswCircuitEntryTime,
        dlswCircuitStateTime,
        dlswCircuitState,
        dlswCircuitPriority,
        dlswCircuitFCSendGrantedUnits,
        dlswCircuitFCSendCurrentWndw,
        dlswCircuitFCRecvGrantedUnits,
        dlswCircuitFCRecvCurrentWndw,
        dlswCircuitFCLargestRecvGranted,
        dlswCircuitFCLargestSendGranted,
        dlswCircuitFCHalveWndwSents,
        dlswCircuitFCResetOpSents,
        dlswCircuitFCHalveWndwRcvds,
        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/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.

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 invaliding the
corresponding entry in the atTable object. That
is, it effectively dissasociates 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
      datagarms 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 dissasociates 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
                dissasociates 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/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.

```
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
            " 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/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.

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
        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."
::= { 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 results 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 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.

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
  SnmpAdminString
    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: stjohns@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 $y = g^{xa}$ 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 $2^{(l-1)} <= xa < 2^l < p-1$. 'l' is the
optional privateValueLength from usmDHParameters in bits. If 'l'
is omitted, then xa (and xr below) is selected in the interval 0
$<= xa < p-1$. 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 $PV1 <> 0$.

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 $z = g^{xr}$ 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 $2^{(l-1)} <= xr < 2^l <$
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), $yout <> yin$).

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 $sk = z^{xa}$ MOD
p, and at the manager as $sk = y^{xr}$ 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
   DHParameter 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 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 $y = g^r \bmod p$ 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 =
$mgrPublic^r \bmod p$ 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 interation 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 Schnier - 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.

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"
  CONTACT-INFO
     "Author:
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Working Group Mailing List: <rmonmib@ietf.org>

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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:
-- 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.


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   "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).

          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
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 syncronous 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 Communtications

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

lmp (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
        }

IANAtunnelType ::= 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 IANAtunnelType values is
        identical to the policy for assigning IANAifType
        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

  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

        Co-editor Kevin Lingle
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        Co-editor Dave Walker
        email: drwalker@rogers.com"
  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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    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   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 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.
--
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,
        sipCommonNotifApplIndex,
        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"
  CONTACT-INFO
      "   Fred Baker
          Cisco Systems
          1121 Via Del Rey
          Santa Barbara, CA 93117, USA
          E-mail: fred@cisco.com

          Kwok Ho Chan
          Nortel Networks
          600 Technology Park Drive
          Billerica, MA 01821, USA
          E-mail: khchan@nortelnetworks.com

Andrew Smith

Harbour Networks

Jiuling Building

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:

    diffServMinRateRelative =
        (diffServMinRateAbsolute*1000000)/ifSpeed

  or, if appropriate:

    diffServMinRateRelative = diffServMinRateAbsolute/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:

diffServMinRateRelative =
    (diffServMinRateAbsolute*1000000)/ifSpeed

or, if appropriate:

diffServMinRateRelative = diffServMinRateAbsolute/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:

      diffServMaxRateRelative =
          (diffServMaxRateAbsolute*1000000)/ifSpeed

    or, if appropriate:

      diffServMaxRateRelative = diffServMaxRateAbsolute/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:

diffServMaxRateRelative =
            (diffServMaxRateAbsolute*1000000)/ifSpeed

    or, if appropriate:

    diffServMaxRateRelative = diffServMaxRateAbsolute/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

1.308 woodstox-core 6.2.0

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1.309 cglib 3.1

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ASM: a very small and fast Java bytecode manipulation framework

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jar/org/springframework/web/method/support/HandlerMethodReturnValueHandler.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/remoting/caucho/SimpleHessianServiceExporter.java
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* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/support/WebBindingInitializer.java

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jar/org/springframework/web/context/support/ContextExposingHttpServletRequest.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/filter/Log4jNestedDiagnosticContextFilter.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/request/AbstractRequestAttributes.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java
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jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/client/support/InterceptingHttpAccessor.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/server/ServerHttpRequest.java
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jar/org/springframework/http/converter/ActivationMediaTypeFactory.java
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jar/org/springframework/remoting/jaxws/JaxWsPortClientInterceptor.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/remoting/caucho/HessianProxyFactoryBean.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/remoting/caucho/HessianServiceExporter.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/remoting/caucho/BurlapExporter.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/ServletContextAwareProcessor.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/remoting/caucho/BurlapClientInterceptor.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/server/ServerHttpResponse.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/InvalidMediaTypeException.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/remoting/caucho/HessianClientInterceptor.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/util/ServletContextPropertyUtils.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-

jar/org/springframework/web/client/AsyncRequestCallback.java

* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/remoting/caucho/BurlapServiceExporter.java

* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/request/RequestAttributes.java

* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/xml/XmlAwareFormHttpMessageConverter.java

* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/remoting/caucho/BurlapProxyFactoryBean.java

* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/AbstractRefreshableWebApplicationContext.java

* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/StandardServletEnvironment.java

* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/jsf/el/SpringBeanFacesELResolver.java

* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/HttpMediaTypeNotSupportedException.java

* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/HttpMediaTypeException.java

1.311 lz4 1.2.0

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* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4UnsafeUtils.java
* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/XXHashJNI.java
* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-
jar/net/jpountz/lz4/LZ4BlockOutputStream.java
* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Factory.java
* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Constants.java
* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-

jar/net/jpountz/lz4/LZ4HCJNICompressor.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Exception.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-
jar/net/jpountz/lz4/LZ4FastDecompressor.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-
jar/net/jpountz/xxhash/XXHashConstants.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-
jar/net/jpountz/xxhash/StreamingXXHash32JNI.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/util/Native.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-
jar/net/jpountz/xxhash/AbstractStreamingXXHash32Java.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4JNICompressor.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/util/UnsafeUtils.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/XXHashFactory.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/util/Utils.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-
jar/net/jpountz/lz4/LZ4BlockInputStream.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/XXHash32.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/XXHash32JNI.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Decompressor.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-
jar/net/jpountz/xxhash/StreamingXXHash32.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-
jar/net/jpountz/lz4/LZ4SafeDecompressor.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4JNI.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Utils.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-
jar/net/jpountz/lz4/LZ4JNISafeDecompressor.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Compressor.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-
jar/net/jpountz/lz4/LZ4UnknownSizeDecompressor.java

* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-
jar/net/jpountz/lz4/LZ4JNIFastDecompressor.java

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* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/lz4/package.html
* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/package.html
* /opt/cola/permits/1168013945_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/util/package.html

1.312 cglib-nodep 3.1

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ASM: a very small and fast Java bytecode manipulation framework

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1.314 minio 4.0.0

1.315 drools-reteoo 6.5.0.Final

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jar/org/drools/reteoo/common/ReteAgenda.java

* /opt/cola/permits/1669569904_1683666730.5821862/0/drools-reteoo-6-5-0-final-sources-2-
jar/org/drools/reteoo/common/RetePropagationList.java

* /opt/cola/permits/1669569904_1683666730.5821862/0/drools-reteoo-6-5-0-final-sources-2-
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jar/org/drools/reteoo/nodes/ReteConditionalBranchNode.java
* /opt/cola/permits/1669569904_1683666730.5821862/0/drools-reteoo-6-5-0-final-sources-2-
jar/org/drools/reteoo/nodes/ReteFromNode.java
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jar/org/drools/reteoo/nodes/ReteQueryTerminalNode.java
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jar/org/drools/reteoo/nodes/ReteJoinNode.java
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jar/org/drools/reteoo/nodes/ReteQueryElementNode.java
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jar/org/drools/reteoo/common/ReteWorkingMemoryFactory.java
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jar/org/drools/reteoo/nodes/ReteEntryPointNode.java
* /opt/cola/permits/1669569904_1683666730.5821862/0/drools-reteoo-6-5-0-final-sources-2-
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* /opt/cola/permits/1669569904_1683666730.5821862/0/drools-reteoo-6-5-0-final-sources-2-
jar/org/drools/reteoo/nodes/ReteRightInputAdapterNode.java
* /opt/cola/permits/1669569904_1683666730.5821862/0/drools-reteoo-6-5-0-final-sources-2-
jar/org/drools/reteoo/common/ReteBeliefSystemFactory.java
* /opt/cola/permits/1669569904_1683666730.5821862/0/drools-reteoo-6-5-0-final-sources-2-
jar/org/drools/reteoo/nodes/ReteRuleTerminalNode.java
* /opt/cola/permits/1669569904_1683666730.5821862/0/drools-reteoo-6-5-0-final-sources-2-
jar/org/drools/reteoo/common/ReteWorkingMemory.java
* /opt/cola/permits/1669569904_1683666730.5821862/0/drools-reteoo-6-5-0-final-sources-2-
jar/org/drools/reteoo/nodes/ReteLeftInputAdapterNode.java
* /opt/cola/permits/1669569904_1683666730.5821862/0/drools-reteoo-6-5-0-final-sources-2-
jar/org/drools/reteoo/nodes/ReteAccumulateNode.java
* /opt/cola/permits/1669569904_1683666730.5821862/0/drools-reteoo-6-5-0-final-sources-2-
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* /opt/cola/permits/1669569904_1683666730.5821862/0/drools-reteoo-6-5-0-final-sources-2-
jar/org/drools/reteoo/builder/ReteNodeFactory.java

* /opt/cola/permits/1669569904_1683666730.5821862/0/drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/common/ReteAgendaFactory.java

* /opt/cola/permits/1669569904_1683666730.5821862/0/drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteSlidingLengthWindow.java

1.316 opentracing-spring-web-autoconfigure 0.3.2

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jar/org/jvnet/tiger_types/GenericArrayTypeImpl.java
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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

1.319 spring-aspects 4.3.19.RELEASE

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jar/org/springframework/context/annotation/aspectj/EnableSpringConfigured.java

* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-

jar/org/springframework/beans/factory/aspectj/ConfigurableObject.java

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jar/org/springframework/beans/factory/aspectj/AbstractInterfaceDrivenDependencyInjectionAspect.aj
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/transaction/aspectj/AspectJTransactionManagementConfiguration.java
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/scheduling/aspectj/AspectJAsyncConfiguration.java
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/mock/staticmock/AbstractMethodMockingControl.aj
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/mock/staticmock/MockStaticEntityMethods.java
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/cache/aspectj/AbstractCacheAspect.aj
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/orm/jpa/aspectj/JpaExceptionTranslatorAspect.aj
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/aspectj/AnnotationBeanConfigurerAspect.aj
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/cache/aspectj/JCacheCacheAspect.aj
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/mock/staticmock/AnnotationDrivenStaticEntityMockingControl.aj
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/aspectj/AbstractDependencyInjectionAspect.aj
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* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-

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* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/aspectj/GenericInterfaceDrivenDependencyInjectionAspect.aj
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
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jar/org/springframework/transaction/aspectj/AnnotationTransactionAspect.aj
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-

jar/org/springframework/cache/aspectj/AnyThrow.java
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/transaction/aspectj/JtaAnnotationTransactionAspect.aj
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/context/annotation/aspectj/SpringConfiguredConfiguration.java
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jar/org/springframework/cache/aspectj/AspectJCachingConfiguration.java
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/cache/aspectj/AspectJJCacheConfiguration.java

1.320 commons-discovery 0.4_1
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1.321 swagger-models 1.5.0

1.321.1 Available under license :

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package io.swagger.models;

public class License {
  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;
  }

  @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());
    return result;
  }

```java
    @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;
        }
        return true;
    }
}
```

Found in path(s):
* /opt/cola/permits/1110914972_1611184211.75/0/swagger-models-1-5-0-sources-jar/io/swagger/models/License.java
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```java
package io.swagger.models;

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

import java.util.HashMap;
import java.util.Map;

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

```java
    private String termsOfService;
    private Contact contact;
    private License license;
    private Map<String, Object> vendorExtensions = new HashMap<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) {
```

```java
      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;
```

```java
        }
        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);
    }
}

@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;
    }
```

```java
        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/cola/permits/1110914972_1611184211.75/0/swagger-models-1-5-0-sources-jar/io/swagger/models/Info.java

1.322 kie-api 6.5.0.Final

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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-

jar/org/kie/api/definition/type/Annotation.java

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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/task/TaskLifeCycleEventListener.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/definition/type/Position.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/KieContainer.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/manager/RuntimeEngine.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/executor/ExecutorQueryService.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/builder/model/ListenerModel.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/executor/STATUS.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/manager/RegisterableItemsFactory.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/rule/Match.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/executor/ExecutorAdminService.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/builder/model/KieModuleModel.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/executor/CommandContext.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/KieBase.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/manager/audit/ProcessInstanceLog.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/definition/type/Timestamp.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/manager/Context.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/ExecutorService.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/manager/RuntimeManager.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/cdi/KContainer.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/manager/audit/AuditService.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/TaskEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/DataTransformer.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/Duration.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/Expires.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/TypeSafe.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/conf/TimerJobFactoryOption.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/TaskContext.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/Modifies.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/KieScanner.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/Include.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/ReleaseId.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/KieRepository.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/Role.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/cdi/KSession.java
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/CommandCallback.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/Results.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/ErrorInfo.java
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jar/org/kie/api/executor/Command.java
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jar/org/kie/api/builder/KieBuilder.java
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jar/org/kie/api/runtime/StatelessKieSession.java
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jar/org/kie/api/executor/ExecutionResults.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/definition/type/ClassReactive.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/builder/model/WorkItemHandlerModel.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/builder/model/KieBaseModel.java
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jar/org/kie/api/builder/KieFileSystem.java
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jar/org/kie/api/builder/KieModule.java
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jar/org/kie/api/concurrent/KieExecutors.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/builder/model/KieSessionModel.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/builder/model/QualifierModel.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/executor/Reoccurring.java
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/process/ProcessEventListener.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/rule/MatchEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/kiebase/AfterFunctionRemovedEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/kiebase/AfterKieBaseLockedEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/rule/AgendaGroupPushedEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/kiebase/AfterKiePackageAddedEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/kiebase/BeforeProcessAddedEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/kiebase/BeforeProcessRemovedEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/rule/BeforeMatchFiredEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/rule/RuleFlowGroupEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/kiebase/KieBaseEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-

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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/rule/RuleFlowGroupDeactivatedEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/kiebase/BeforeKieBaseLockedEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/kiebase/BeforeRuleAddedEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/rule/AgendaGroupPoppedEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/rule/AfterMatchFiredEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/process/ProcessVariableChangedEvent.java
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jar/org/kie/api/event/rule/ObjectInsertedEvent.java
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jar/org/kie/api/definition/rule/ActivationListener.java
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jar/org/kie/api/management/GAV.java
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jar/org/kie/api/event/rule/RuleRuntimeEventListener.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/executor/ExecutorStoreService.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/conf/TimedRuleExectionOption.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/definition/type/PropertyChangeSupport.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/manager/RuntimeEnvironmentBuilderFactory.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/remote/Remotable.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/definition/rule/All.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/definition/rule/Watch.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/definition/rule/Propagation.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/rule/RuleRuntimeEventManager.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/builder/model/FileLoggerModel.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/rule/RuleRuntimeEvent.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/manager/RuntimeEnvironmentBuilder.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-

jar/org/kie/api/runtime/conf/TimedRuleExecutionFilter.java

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*/
/**
* KieSession is the most common way to interact with the engine. A KieSession
* allows the application to establish an iterative conversation with the engine, where the state of the
* session is kept across invocations. The reasoning process may be triggered multiple times for the
* same set of data. After the application finishes using the session, though, it <b>must</b> call the
* <code>dispose()</code> method in order to free the resources and used memory.
*
* <p>
* Simple example showing a KieSession executing rules for a given collection of java objects.
```

```
* </p>
* <pre>
* KieServices kieServices = KieServices.Factory.get();
* KieContainer kContainer = kieServices.getKieClasspathContainer();
* KieSession kSession = kContainer.newKieSession();
*
* for( Object fact : facts ) {
* kSession.insert( fact );
* }
* kSession.fireAllRules();
* kSession.dispose();
* </pre>
*
* <p>
* Simple example showing a stateful session executing processes.
* </p>
* <pre>
* KieSession kSession = kbase.newKieSession();
* kSession.startProcess("com.sample.processid");
* kSession.signalEvent("SomeEvent", null);
* kSession.startProcess("com.sample.processid");
* kSession.dispose();
* </pre>
*
* <p>
* KieSession support globals. Globals are used to pass information into the engine
* (like data or service callbacks that can be used in your rules and processes), but they should not
* be used to reason over. If you need to reason over your data, make sure you insert
* it as a fact, not a global.</p>
* <p>Globals are shared among ALL your rules and processes, so be especially careful of (and avoid
* as much as possible) mutable globals. Also, it is a good practice to set your globals before
* inserting your facts or starting your processes. Rules engines evaluate rules at fact insertion
* time, and so, if you are using a global to constraint a fact pattern, and the global is not set,
* you may receive a <code>NullPointerException</code>. </p>
* <p>Globals can be resolved in two ways. The KieSession supports getGlobals() which
* returns the internal Globals, which itself can take a delegate. Calling of setGlobal(String, Object)
* will set the global on an internal Collection. Identifiers in this internal
* Collection will have priority over the externally supplied Globals delegate. If an identifier cannot be found in
* the internal Collection, it will then check the externally supplied Globals delegate, if one has been set.
* </p>
*
* <p>Code snippet for setting a global:</p>
* <pre>
* KieSession ksession = kbase.newKieSession();
* ksession.setGlobal( "hbnSession", hibernateSession ); // sets a global hibernate session, that can be used for DB
interactions in the rules.
* for( Object fact : facts ) {
* ksession.insert( fact );
```

* }
* ksession.fireAllRules(); // this will now execute and will be able to resolve the "hbnSession" identifier.
* ksession.dispose();
* </pre>
*
* <p>
* Like StatelessKieSession this also implements CommandExecutor which can be used to script a KieSession. See CommandExecutor
* for more details.
* </p>
*
* @see Globals
*/

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jar/org/kie/api/definition/type/Label.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/rule/EvaluatorDefinition.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/conf/EventProcessingOption.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/marshalling/MarshallingConfiguration.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/rule/Operator.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/conf/KieBaseOptionsConfiguration.java
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jar/org/kie/api/runtime/process/EventListener.java
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jar/org/kie/api/task/model/Task.java
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jar/org/kie/api/runtime/BatchRequestMessage.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/management/KieBaseConfigurationMonitorMBean.java
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jar/org/kie/api/runtime/process/WorkflowProcessInstance.java
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jar/org/kie/api/definition/process/WorkflowProcess.java
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jar/org/kie/api/runtime/rule/RuleRuntime.java
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jar/org/kie/api/event/rule/MatchCancelledCause.java
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jar/org/kie/api/runtime/rule/LiveQuery.java
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jar/org/kie/api/runtime/Calendars.java
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jar/org/kie/api/task/model/I18NText.java
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jar/org/kie/api/logger/KieRuntimeLogger.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/definition/process/NodeContainer.java
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jar/org/kie/api/management/ObjectTypeNodeMonitorMBean.java
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jar/org/kie/api/KieBaseConfiguration.java

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jar/org/kie/api/runtime/rule/QueryResultsRow.java

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jar/org/kie/api/management/KieManagementAgentMBean.java

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jar/org/kie/api/runtime/rule/StatelessRuleSession.java

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jar/org/kie/api/runtime/rule/EntryPoint.java

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jar/org/kie/api/event/rule/DebugAgendaEventListener.java

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jar/org/kie/api/runtime/rule/ActivationGroup.java

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jar/org/kie/api/task/model/Comment.java

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jar/org/kie/api/runtime/process/StatefulProcessSession.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/rule/AttachedViewChangedEventListener.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/osgi/Activator.java

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* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/KieBaseEventManager.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/Agenda.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/model/Attachment.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/StatelessProcessSession.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/RuleFlowGroup.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/logger/KieLoggers.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/model/OrganizationalEntity.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/conf/BeliefSystemTypeOption.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/conf/RemoveIdentitiesOption.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/UserGroupCallback.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/KieContext.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/management/GenericKieSessionMonitoringMXBean.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/NodeInstanceContainer.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/WorkItemManager.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/conf/SingleValueKieSessionOption.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-

jar/org/kie/api/time/SessionClock.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/Environment.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/process/NodeInstance.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/ClassObjectFilter.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/Channel.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/conf/MultiValueKieBaseOption.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/definition/process/Process.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/Service.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/io/Resource.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/rule/QueryResults.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/ObjectFilter.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/rule/AccumulateFunction.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/process/ProcessRuntime.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/command/KieCommands.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/definition/type/FactField.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/conf/SingleValueKieBaseOption.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/process/ProcessInstance.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/rule/DefaultRuleRuntimeEventListener.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/persistence/jpa/KieStoreServices.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/process/DefaultProcessEventListener.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/conf/KeepReferenceOption.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/task/model/TaskData.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/time/Calendar.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/process/ProcessNodeEvent.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/event/rule/DebugRuleRuntimeEventListener.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/management/KieSessionMonitoringMXBean.java

* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/process/WorkItem.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/CommandExecutor.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/io/ResourceType.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/rule/Row.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/rule/Variable.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/rule/PropagationContext.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/definition/process/Connection.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/definition/KiePackage.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/task/model/Content.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/management/StatelessKieSessionMonitoringMXBean.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/rule/ConsequenceException.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/task/model/Group.java
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Found in path(s):
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/runtime/query/QueryContext.java
* /opt/cola/permits/1114653403_1607543522.84/0/kie-api-6-5-0-final-sources-2-
jar/org/kie/api/task/model/QuickTaskSummary.java

1.323 grpc-context 1.9.0

1.324 icu4j 56.1

1.324.1 Available under license :

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```
/*
***********************************************************************
* Copyright (c) 2004-2015, International Business Machines
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***********************************************************************
* Author: Alan Liu
* Created: March 16 2004
* Since: ICU 3.0
***********************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/TokenIterator.java
No license file was found, but licenses were detected in source scan.

```
/*
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* others. All Rights Reserved.                                *
***************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CharacterIteration.java
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```
/*
****************************************************************************
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* others. All Rights Reserved.                                *
****************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ResourceBundleWrapper.java

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```
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******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/locale/StringTokenIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CalendarUtil.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie2Writable.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/ICURegionDataTables.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/ICULangDataTables.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/locale/LocaleSyntaxException.java
No license file was found, but licenses were detected in source scan.

```
/******************************************************************************
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* others. All Rights Reserved.
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/ChineseDateFormatSymbols.java
No license file was found, but licenses were detected in source scan.

```
/*
* @(#)TimeZone.java    1.51 00/01/19
*
* Copyright (C) 1996-2015, International Business Machines
* Corporation and others.  All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/TimeZone.java
No license file was found, but licenses were detected in source scan.

```
/*
******************************************************************************
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```

```
******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/CaseFoldTransliterator.java
No license file was found, but licenses were detected in source scan.

```
/*
******************************************************************************
* Copyright (C) 2013-2014, International Business Machines
* Corporation and others.  All Rights Reserved.
******************************************************************************
* ContractionsAndExpansions.java, ported from collationsets.h/.cpp
*
* C++ version created on: 2013feb09
* created by: Markus W. Scherer
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/coll/ContractionsAndExpansions.java
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```
/*
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*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/IDNA2003.java
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```
/*
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*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BidiWriter.java
No license file was found, but licenses were detected in source scan.

```
/*
******************************************************************************
```

```
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 * others. All Rights Reserved.
 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Normalizer.java
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```
/**
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 * others. All Rights Reserved.                                   *
 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICULocaleService.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
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 *******************************************************************************
 * CollationBuilder.java, ported from collationbuilder.h/.cpp
 *
 * C++ version created on: 2013may06
 * created by: Markus W. Scherer
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationBuilder.java
No license file was found, but licenses were detected in source scan.

```
/*
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 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ArabicShapingException.java
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```
/*
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******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/BasicPeriodFormatterService.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/impl/XMLRecordWriter.java
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```
/*
******************************************************************************
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******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CalendarData.java
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```
/*
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******************************************************************************
*
* created on: 2014feb10
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*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/UVector32.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/UVector64.java
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```
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*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUService.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CaseInsensitiveString.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICURWLock.java

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```
/*
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*********************************************************************************
*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBIRuleScanner.java

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```
/*
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*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UFieldPosition.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/QuantityFormatter.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/PluralSamples.java

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```
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*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ChineseCalendar.java

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```
/**
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*********************************************************************************
*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/OverlayBundle.java

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/***
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**/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBINode.java
No license file was found, but licenses were detected in source scan.

/*
****
* Copyright (C) 2012-2014, International Business Machines
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****
* IterCollationIterator.java, ported from uitercollationiterator.h/.cpp
*
* C++ version created on: 2012sep23 (from utf16collationiterator.h)
* created by: Markus W. Scherer
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/IterCollationIterator.java
No license file was found, but licenses were detected in source scan.

/*
****
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****
* FCDUTF16CollationIterator.java, ported from utf16collationiterator.h/.cpp
*
* C++ version created on: 2010oct27
* created by: Markus W. Scherer
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/FCDUTF16CollationIterator.java
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*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DateIntervalFormat.java
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```
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*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBISymbolTable.java
No license file was found, but licenses were detected in source scan.

```
/*
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*********************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/LocaleDisplayNamesImpl.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/CurrencyDisplayNames.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/LocaleDisplayNames.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CurrencyMetaInfo.java
No license file was found, but licenses were detected in source scan.

```
/*
*********************************************************************************
* Copyright (C) 2008-2009, Google, International Business Machines
* Corporation and others. All Rights Reserved.
*********************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/TimeUnitAmount.java
No license file was found, but licenses were detected in source scan.

```
/*
*********************************************************************************
* Copyright (C) 1996-2015, International Business Machines Corporation and
* others. All Rights Reserved.
```

```
********************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/TrieIterator.java
No license file was found, but licenses were detected in source scan.

```
/*
****************************************************************************
* Copyright (C) 2010-2015, International Business Machines
* Corporation and others.  All Rights Reserved.
****************************************************************************
* CollationData.java, ported from collationdata.h/.cpp
*
* C++ version created on: 2010oct27
* created by: Markus W. Scherer
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationData.java
No license file was found, but licenses were detected in source scan.

```
/*
****************************************************************************
* Copyright (C) 2001-2011, International Business Machines Corporation and    *
* others. All Rights Reserved.                                   *
****************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Quantifier.java
No license file was found, but licenses were detected in source scan.

```
/**
****************************************************************************
* Copyright (C) 2003-2014, International Business Machines Corporation and
* others. All Rights Reserved.
****************************************************************************
* Partial port from ICU4C's Grego class in i18n/gregoimp.h.
*
* Methods ported, or moved here from OlsonTimeZone, initially
* for work on Jitterbug 5470:
*   tzdata2006n Brazil incorrect fall-back date 2009-mar-01
* Only the methods necessary for that work are provided - this is not a full
* port of ICU4C's Grego class (yet).
*
* These utilities are used by both OlsonTimeZone and SimpleTimeZone.
*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Grego.java

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

```
/*
*******************************************************************************
* Copyright (C) 2010-2014, International Business Machines
* Corporation and others.  All Rights Reserved.
*******************************************************************************
* UTF16CollationIterator.java, ported from utf16collationiterator.h/.cpp
*
* C++ version created on: 2010oct27
* created by: Markus W. Scherer
*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/UTF16CollationIterator.java

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

```
/*
*******************************************************************************
*   Copyright (C) 2011-2014, International Business Machines
*   Corporation and others.  All Rights Reserved.
*******************************************************************************
*   created on: 2011jul14
*   created by: Markus W. Scherer
*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/MessagePatternUtil.java

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

```
//   All Rights Reserved.
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBIRuleBuilder.java

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

```
/*
* *******************************************************************************
* Copyright (C) 2007-2011, International Business Machines Corporation and others.
* All Rights Reserved.
* *******************************************************************************
*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/TextTrieMap.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
* Copyright (C) 2003-2010, International Business Machines Corporation and
* others. All Rights Reserved.
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/RBBIRuleParseTable.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
*   Copyright (C) 2010-2014, International Business Machines
*   Corporation and others.  All Rights Reserved.
*******************************************************************************
*   created on: 2010nov23
*   created by: Markus W. Scherer
*   ported from ICU4C bytestrie.h/.cpp
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/BytesTrie.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
* Copyright (C) 2003-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*******************************************************************************
*
* Created on May 2, 2003
*
* To change the template for this generated file go to
* Window>Preferences>Java>Code Generation>Code and Comments
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/StringPrepDataReader.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
```

```
 * Copyright (C) 2010-2013, International Business Machines Corporation and    *
 * others. All Rights Reserved.                                      *
 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/locale/LanguageTag.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
 * Copyright (C) 2003-2014, International Business Machines Corporation and    *
 * others. All Rights Reserved.                                      *
 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/StringPrepParseException.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/IDNA.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
 * Copyright (C) 2012-2015, International Business Machines Corporation and    *
 * others. All Rights Reserved.                                      *
 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DisplayContext.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
 * Copyright (C) 2012-2014, International Business Machines
 * Corporation and others.  All Rights Reserved.
 *******************************************************************************
 * FCDIterCollationIterator.java, ported from uitercollationiterator.h/.cpp
 *
 * C++ version created on: 2012sep23 (from utf16collationiterator.h)
 * created by: Markus W. Scherer
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/coll/FCDIterCollationIterator.java

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

/*
****
* Copyright (C) 2013-2015, International Business Machines
* Corporation and others. All Rights Reserved.
****
* CollationTailoring.java, ported from collationtailoring.h/.cpp
*
* C++ version created on: 2013mar12
* created by: Markus W. Scherer
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/coll/CollationTailoring.java
No license file was found, but licenses were detected in source scan.

/*
****
* Copyright (C) 2004-2014, International Business Machines Corporation and
* others. All Rights Reserved.
****
*
* Created on Feb 4, 2004
*
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUData.java
No license file was found, but licenses were detected in source scan.

/*
****
*
*   Copyright (C) 2004-2010, International Business Machines
*   Corporation and others. All Rights Reserved.
*
****
*   file name: ReplaceableContextIterator.java
*   encoding: US-ASCII
*   tab size: 8 (not used)
*   indentation:4
*
*   created on: 2005feb04
*   created by: Markus W. Scherer
*
*   Implementation of UCaseProps.ContextIterator, iterates over a Replaceable.

```
*   Java port of casetrn.cpp/utrans_rep_caseContextIterator().
*/


Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/ReplaceableContextIterator.java
No license file was found, but licenses were detected in source scan.


/*
 ***************************************************************************
 * Copyright (C) 2013, Google Inc, International Business Machines Corporation and       *
 * others. All Rights Reserved.                                     *
 ***************************************************************************
*/


Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/PluralRulesSerialProxy.java
No license file was found, but licenses were detected in source scan.


/*
 ***************************************************************************
 * Copyright (C) 2012-2015, International Business Machines
 * Corporation and others.  All Rights Reserved.
 ***************************************************************************
 * CollationFCD.java, ported from collationfcd.h/.cpp
 *
 * C++ version created on: 2012aug18
 * created by: Markus W. Scherer
*/


Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationFCD.java
No license file was found, but licenses were detected in source scan.


/*
 ***************************************************************************
 * Copyright (C) 2009-2010, Google, International Business Machines Corporation *
 * and others. All Rights Reserved.                                 *
 ***************************************************************************
*/


Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Transform.java
No license file was found, but licenses were detected in source scan.


/*
 **********************************************************************
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBITableBuilder.java
No license file was found, but licenses were detected in source scan.

/**
 * <code>RuleBasedTransliterator</code> is a transliterator
 * that reads a set of rules in order to determine how to perform
 * translations. Rule sets are stored in resource bundles indexed by
 * name. Rules within a rule set are separated by semicolons (';').
 * To include a literal semicolon, prefix it with a backslash ('\').
 * Unicode Pattern_White_Space is ignored.
 * If the first non-blank character on a line is '#',
 * the entire line is ignored as a comment. </p>
 *
 * <p>Each set of rules consists of two groups, one forward, and one
 * reverse. This is a convention that is not enforced; rules for one
 * direction may be omitted, with the result that translations in
 * that direction will not modify the source text. In addition,
 * bidirectional forward-reverse rules may be specified for
 * symmetrical transformations.</p>
 *
 * <p>Rule syntax </p>
 *
 * <p>Rule statements take one of the following forms: </p>
 *
 * <dl>
 *   <dt><code>$alefmadda=\u0622;</code></dt>
 *   <dd>Variable definition. The name on the
 *   left is assigned the text on the right. In this example,
 *   after this statement, instances of the left hand name,
 *   "<code>$alefmadda</code>", will be replaced by
 *   the Unicode character U+0622. Variable names must begin
 *   with a letter and consist only of letters, digits, and
 *   underscores. Case is significant. Duplicate names cause
 *   an exception to be thrown, that is, variables cannot be
 *   redefined. The right hand side may contain well-formed
 *   text of any length, including no text at all ("<code>$empty=;</code>").

*   The right hand side may contain embedded <code>UnicodeSet</code>
*   patterns, for example, &quot;<code>$softvowel=[eiyEIY]</code>&quot;.</dd>
*   <dd>&nbsp;</dd>
*   <dt><code>ai&gt;$alefmadda;</code></dt>
*   <dd>Forward translation rule. This rule
*   states that the string on the left will be changed to the
*   string on the right when performing forward
*   transliteration.</dd>
*   <dt>&nbsp;</dt>
*   <dt><code>ai&lt;$alefmadda;</code></dt>
*   <dd>Reverse translation rule. This rule
*   states that the string on the right will be changed to
*   the string on the left when performing reverse
*   transliteration.</dd>
* </dl>
*
* <dl>
*   <dt><code>ai&lt;&gt;$alefmadda;</code></dt>
*   <dd>Bidirectional translation rule. This
*   rule states that the string on the right will be changed
*   to the string on the left when performing forward
*   transliteration, and vice versa when performing reverse
*   transliteration.</dd>
* </dl>
*
* <p>Translation rules consist of a match pattern and an output
* string. The match pattern consists of literal characters,
* optionally preceded by context, and optionally followed by
* context. Context characters, like literal pattern characters,
* must be matched in the text being transliterated. However, unlike
* literal pattern characters, they are not replaced by the output
* text. For example, the pattern &quot;<code>abc{def}</code>&quot;
* indicates the characters &quot;<code>def</code>&quot; must be
* preceded by &quot;<code>abc</code>&quot; for a successful match.
* If there is a successful match, &quot;<code>def</code>&quot; will
* be replaced, but not &quot;<code>abc</code>&quot;. The final '<code>}</code>'
* is optional, so &quot;<code>abc{def</code>&quot; is equivalent to
* &quot;<code>abc{def}</code>&quot;. Another example is &quot;<code>{123}456</code>&quot;
* (or &quot;<code>123}456</code>&quot;) in which the literal
* pattern &quot;<code>123</code>&quot; must be followed by &quot;<code>456</code>&quot;.
* </p>
*
* <p>The output string of a forward or reverse rule consists of
* characters to replace the literal pattern characters. If the
* output string contains the character '<code>|</code>', this is
* taken to indicate the location of the cursor after
* replacement. The cursor is the point in the text at which the
* next replacement, if any, will be applied. The cursor is usually

* placed within the replacement text; however, it can actually be
* placed into the precending or following context by using the
* special character '<code>@</code>'. Examples:</p>
*
* <blockquote>
*   <p><code>a {foo} z > | @ bar; # foo -> bar, move cursor
*   before a
*   {foo} xyz > bar @@|; # foo -> bar, cursor between
*   y and z</code></p>
* </blockquote>
*
* <p>UnicodeSet</p>
*
* <p><code>UnicodeSet</code> patterns may appear anywhere that
* makes sense. They may appear in variable definitions.
* Contrariwise, <code>UnicodeSet</code> patterns may themselves
* contain variable references, such as "<code>$a=[a-z];$not_a=[^$a]</code>",
* or "<code>$range=a-z;$ll=[$range]</code>".</p>
*
* <p><code>UnicodeSet</code> patterns may also be embedded directly
* into rule strings. Thus, the following two rules are equivalent:</p>
*
* <blockquote>
*   <p><code>$vowel=[aeiou]; $vowel>'*'; # One way to do this
*   [aeiou]>'*';
*   #
*   Another way</code></p>
* </blockquote>
*
* <p>See {@link UnicodeSet} for more documentation and examples.</p>
*
* <p>Segments</p>
*
* <p>Segments of the input string can be matched and copied to the
* output string. This makes certain sets of rules simpler and more
* general, and makes reordering possible. For example:</p>
*
* <blockquote>
*   <p><code>([a-z]) > $1 $1;
*   #
*   double lowercase letters
*   ([:Lu:]) ([:Ll:]) > $2 $1; # reverse order of Lu-Ll pairs</code></p>
* </blockquote>
*
* <p>The segment of the input string to be copied is delimited by
* "<code>(</code>" and "<code>)</code>". Up to
* nine segments may be defined. Segments may not overlap. In the
* output string, "<code>$1</code>" through "<code>$9</code>"

* represent the input string segments, in left-to-right order of

* definition.</p>

*

* <p>Anchors</p>

*

* <p>Patterns can be anchored to the beginning or the end of the text. This is done with the

* special characters '<code>^</code>' and '<code>$</code>'. For example:</p>

*

* <blockquote>

*   <p><code>^ a   > 'BEG_A';   # match 'a' at start of text

*   a   > 'A';   # match other instances

* of 'a'

*   z $ > 'END_Z';   # match 'z' at end of text

*   z   > 'Z';   # match other instances

* of 'z'</code></p>

* </blockquote>

*

* <p>It is also possible to match the beginning or the end of the text using a <code>UnicodeSet</code>.

* This is done by including a virtual anchor character '<code>$</code>' at the end of the

* set pattern. Although this is usually the match chafacter for the end anchor, the set will

* match either the beginning or the end of the text, depending on its placement. For

* example:</p>

*

* <blockquote>

*   <p><code>$x = [a-z$];   # match 'a' through 'z' OR anchor

* $x 1   > 2;   # match '1' after a-z or at the start

*   3 $x > 4;   # match '3' before a-z or at the end</code></p>

* </blockquote>

*

* <p>Example </p>

*

* <p>The following example rules illustrate many of the features of

* the rule language. </p>

*

* <table border="0" cellpadding="4">

*   <tr>

*   <td valign="top">Rule 1.</td>

*   <td valign="top" nowrap><code>abc{def}>x|y</code></td>

*   </tr>

*   <tr>

*   <td valign="top">Rule 2.</td>

*   <td valign="top" nowrap><code>xyz>r</code></td>

*   </tr>

*   <tr>

*   <td valign="top">Rule 3.</td>

*   <td valign="top" nowrap><code>yz>q</code></td>

*   </tr>

* </table>

```
*
* <p>Applying these rules to the string &quot;<code>adefabcdefz</code>&quot;
* yields the following results: </p>
*
* <table border="0" cellpadding="4">
*   <tr>
*     <td valign="top" nowrap><code>|adefabcdefz</code></td>
*     <td valign="top">Initial state, no rules match. Advance
*     cursor.</td>
*   </tr>
*   <tr>
*     <td valign="top" nowrap><code>a|defabcdefz</code></td>
*     <td valign="top">Still no match. Rule 1 does not match
*     because the preceding context is not present.</td>
*   </tr>
*   <tr>
*     <td valign="top" nowrap><code>ad|efabcdefz</code></td>
*     <td valign="top">Still no match. Keep advancing until
*     there is a match...</td>
*   </tr>
*   <tr>
*     <td valign="top" nowrap><code>ade|fabcdefz</code></td>
*     <td valign="top">...</td>
*   </tr>
*   <tr>
*     <td valign="top" nowrap><code>adef|abcdefz</code></td>
*     <td valign="top">...</td>
*   </tr>
*   <tr>
*     <td valign="top" nowrap><code>adefa|bcdefz</code></td>
*     <td valign="top">...</td>
*   </tr>
*   <tr>
*     <td valign="top" nowrap><code>adefab|cdefz</code></td>
*     <td valign="top">...</td>
*   </tr>
*   <tr>
*     <td valign="top" nowrap><code>adefabc|defz</code></td>
*     <td valign="top">Rule 1 matches; replace &quot;<code>def</code>&quot;
*     with &quot;<code>xy</code>&quot; and back up the cursor
*     to before the '<code>y</code>'.</td>
*   </tr>
*   <tr>
*     <td valign="top" nowrap><code>adefabcx|yz</code></td>
*     <td valign="top">Although &quot;<code>xyz</code>&quot; is
*     present, rule 2 does not match because the cursor is
*     before the '<code>y</code>', not before the '<code>x</code>'.
*     Rule 3 does match. Replace &quot;<code>yz</code>&quot;
```

```
 *          with &quot;<code>q</code>&quot;.</td>
 *      </tr>
 *      <tr>
 *        <td valign="top" nowrap><code>adefabcxq|</code></td>
 *        <td valign="top">The cursor is at the end;
 *          transliteration is complete.</td>
 *      </tr>
 * </table>
 *
 * <p>The order of rules is significant. If multiple rules may match
 * at some point, the first matching rule is applied. </p>
 *
 * <p>Forward and reverse rules may have an empty output string.
 * Otherwise, an empty left or right hand side of any statement is a
 * syntax error. </p>
 *
 * <p>Single quotes are used to quote any character other than a
 * digit or letter. To specify a single quote itself, inside or
 * outside of quotes, use two single quotes in a row. For example,
 * the rule &quot;<code>'&gt;'&gt;o"clock</code>&quot; changes the
 * string &quot;<code>&gt;</code>&quot; to the string &quot;<code>o'clock</code>&quot;.
 * </p>
 *
 * <p><b>Notes</b> </p>
 *
 * <p>While a RuleBasedTransliterator is being built, it checks that
 * the rules are added in proper order. For example, if the rule
 * &quot;a&gt;x&quot; is followed by the rule &quot;ab&gt;y&quot;,
 * then the second rule will throw an exception. The reason is that
 * the second rule can never be triggered, since the first rule
 * always matches anything it matches. In other words, the first
 * rule <em>masks</em> the second rule. </p>
 *
 * <p>Copyright (c) IBM Corporation 1999-2000. All rights reserved.</p>
 *
 * @author Alan Liu
 * @internal
 * @deprecated This API is ICU internal only.
 */


Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/RuleBasedTransliterator.java
No license file was found, but licenses were detected in source scan.

/*
*******************************************************************************
* Copyright (C) 2012-2014, Google, International Business Machines Corporation and
```

* others. All Rights Reserved.
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ListFormatter.java
No license file was found, but licenses were detected in source scan.

/*
****
*   Copyright (C) 2001-2012, International Business Machines
*   Corporation and others. All Rights Reserved.
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ArabicShaping.java
No license file was found, but licenses were detected in source scan.

/*
****
*   Copyright (C) 2011-2014, International Business Machines
*   Corporation and others. All Rights Reserved.
****
*   created on: 2011jan05
*   created by: Markus W. Scherer
*   ported from ICU4C stringtriebuilder.h/.cpp
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/StringTrieBuilder.java
No license file was found, but licenses were detected in source scan.

/**
****
* Copyright (C) 1996-2011, International Business Machines Corporation and
* others. All Rights Reserved.
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/UCharacterNameChoice.java
No license file was found, but licenses were detected in source scan.

/*
****
*   Copyright (C) 2001-2014, International Business Machines

```
*   Corporation and others.  All Rights Reserved.
 ***********************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BidiLine.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Bidi.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************
 *   Copyright (c) 2001-2011, International Business Machines
 *   Corporation and others.  All Rights Reserved.
 *******************************************************************
 *   Date        Name        Description
 *   11/19/2001  aliu        Creation.
 *******************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/UnescapeTransliterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/EscapeTransliterator.java
No license file was found, but licenses were detected in source scan.

```
/*
 ***********************************************************************
 *
 *   Copyright (C) 1996-2015, International Business Machines
 *   Corporation and others.  All Rights Reserved.
 *
 ***********************************************************************
 *
 * CollationLoader.java, ported from ucol_res.cpp
 *
 * created by: Markus W. Scherer
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/coll/CollationLoader.java
No license file was found, but licenses were detected in source scan.

```
/*
 ***********************************************************************
 * Copyright (C) 2007-2013, International Business Machines Corporation and    *
 * others. All Rights Reserved.                                   *
 ***********************************************************************
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/BasicDurationFormat.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
*
*   Copyright (C) 2004-2015, International Business Machines
*   Corporation and others.  All Rights Reserved.
*
*******************************************************************************
*   file name:  UBiDiProps.java
*   encoding:   US-ASCII
*   tab size:   8 (not used)
*   indentation:4
*
*   created on: 2005jan16
*   created by: Markus W. Scherer
*
*   Low-level Unicode bidi/shaping properties access.
*   Java port of ubidi_props.h/.c.
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UBiDiProps.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
*   Copyright (C) 2009-2014, International Business Machines
*   Corporation and others.  All Rights Reserved.
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/FilteredNormalizer2.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************
* Copyright (c) 2004-2014, International Business Machines
* Corporation and others.  All Rights Reserved.
*******************************************************************
* Author: Alan Liu
* Created: April 20, 2004
```

```
* Since: ICU 3.0
******************************************************************
*/


Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CurrencyFormat.java
No license file was found, but licenses were detected in source scan.


/*
****************************************************************************
* Copyright (C) 1996-2015, International Business Machines Corporation and   *
* others. All Rights Reserved.                                   *
****************************************************************************
*/


Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DecimalFormat.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/NumberFormat.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DigitList.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/NFRuleSet.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BreakIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/NFRule.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/RuleBasedNumberFormat.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Utility.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/IslamicCalendar.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/DecimalFormatSymbols.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/NFSubstitution.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/SearchIterator.java
No license file was found, but licenses were detected in source scan.


/*
****************************************************************************
* Copyright (C) 1996-2009, International Business Machines Corporation and   *
* others. All Rights Reserved.                                   *
****************************************************************************
*/


Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/PVecToTrieCompactHandler.java
No license file was found, but licenses were detected in source scan.


/*
****************************************************************************
* Copyright (C) 1996-2015, International Business Machines Corporation and
* others. All Rights Reserved.
```

```
 ******************************************************************************
 */
/**
 * {@icuenhanced java.text.DateFormatSymbols}.{@icu _usage_}
 *
 * <p><code>DateFormatSymbols</code> is a public class for encapsulating
 * localizable date-time formatting data, such as the names of the
 * months, the names of the days of the week, and the time zone data.
 * <code>DateFormat</code> and <code>SimpleDateFormat</code> both use
 * <code>DateFormatSymbols</code> to encapsulate this information.
 *
 * <p>Typically you shouldn't use <code>DateFormatSymbols</code> directly.
 * Rather, you are encouraged to create a date-time formatter with the
 * <code>DateFormat</code> class's factory methods: <code>getTimeInstance</code>,
 * <code>getDateInstance</code>, or <code>getDateTimeInstance</code>.
 * These methods automatically create a <code>DateFormatSymbols</code> for
 * the formatter so that you don't have to. After the
 * formatter is created, you may modify its format pattern using the
 * <code>setPattern</code> method. For more information about
 * creating formatters using <code>DateFormat</code>'s factory methods,
 * see {@link DateFormat}.
 *
 * <p>If you decide to create a date-time formatter with a specific
 * format pattern for a specific locale, you can do so with:
 * <blockquote>
 * <pre>
 * new SimpleDateFormat(aPattern, new DateFormatSymbols(aLocale)).
 * </pre>
 * </blockquote>
 *
 * <p><code>DateFormatSymbols</code> objects are clonable. When you obtain
 * a <code>DateFormatSymbols</code> object, feel free to modify the
 * date-time formatting data. For instance, you can replace the localized
 * date-time format pattern characters with the ones that you feel easy
 * to remember. Or you can change the representative cities
 * to your favorite ones.
 *
 * <p>New <code>DateFormatSymbols</code> subclasses may be added to support
 * <code>SimpleDateFormat</code> for date-time formatting for additional locales.
 *
 * @see          DateFormat
 * @see          SimpleDateFormat
 * @see          com.ibm.icu.util.SimpleTimeZone
 * @author       Chen-Lieh Huang
 * @stable ICU 2.0
 */
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DateFormatSymbols.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
*
*   Copyright (C) 2004-2015, International Business Machines
*   Corporation and others.  All Rights Reserved.
*
*******************************************************************************
*   file name:  UCaseProps.java
*   encoding:   US-ASCII
*   tab size:   8 (not used)
*   indentation:4
*
*   created on: 2005jan29
*   created by: Markus W. Scherer
*
*   Low-level Unicode character/string case mapping code.
*   Java port of ucase.h/.c.
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCaseProps.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
* Copyright (C) 2011-2012, International Business Machines Corporation and    *
* others. All Rights Reserved.                                     *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Output.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
* Copyright (C) 2008-2014, Google Inc, International Business Machines Corporation
* and others. All Rights Reserved.
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/AlphabeticIndex.java
No license file was found, but licenses were detected in source scan.

```
/*
******************************************************************************
* Copyright (C) 2001-2004, International Business Machines Corporation and    *
* others. All Rights Reserved.                                              *
******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/StringMatcher.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeMatcher.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
* Copyright (C) 2009-2014, Google, Inc.; International Business Machines Corporation *
* and others. All Rights Reserved.                                          *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/LocaleData.java
No license file was found, but licenses were detected in source scan.

/* Copyright IBM Corporation, 1997, 2000, 2005, 2007. All Rights Reserved. */

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/math/MathContext.java
No license file was found, but licenses were detected in source scan.

```
/*
******************************************************************************
*   Copyright (C) 2009-2015, International Business Machines
*   Corporation and others.  All Rights Reserved.
******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Normalizer2Impl.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Normalizer2.java
No license file was found, but licenses were detected in source scan.

```
/*
******************************************************************************
* Copyright (C) 2003-2011, International Business Machines Corporation and    *
* others. All Rights Reserved.                                              *
******************************************************************************
*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBISetBuilder.java

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

```
/*
******************************************************************************
*   Copyright (C) 2011, International Business Machines
*   Corporation and others.  All Rights Reserved.
******************************************************************************
*   created on: 2011feb25
*   created by: Markus W. Scherer
*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/PatternProps.java

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

```
/*
******************************************************************************
* Copyright (C) 2004-2014, International Business Machines Corporation and
* others. All Rights Reserved.
******************************************************************************
*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/util/GlobalizationPreferences.java

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

```
/*
******************************************************************************
* Copyright (C) 2015, International Business Machines Corporation and
* others. All Rights Reserved.
******************************************************************************
*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ClassLoaderUtil.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUResource.java

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

```
/*
******************************************************************************
* Copyright (C) 2007-2009, International Business Machines Corporation and   *
* others. All Rights Reserved.                                  *
******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/PeriodBuilderFactory.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/BasicDurationFormatterFactory.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
 * Copyright (C) 2008-2014, Google, International Business Machines Corporation and    *
 * others. All Rights Reserved.                                                 *
 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/PluralRanges.java
No license file was found, but licenses were detected in source scan.

```
/**
 *******************************************************************************
 * Copyright (C) 1996-2015, International Business Machines Corporation and
 * others. All Rights Reserved.
 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RuleBasedCollator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UTF16.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/UCharacter.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
 * Copyright (C) 2007-2015, International Business Machines Corporation and
 * others. All Rights Reserved.
 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/PluralRules.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/PluralFormat.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DurationFormat.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
 * Copyright (C) 2011-2014, International Business Machines Corporation and    *
 * others. All Rights Reserved.                                                 *
```

```
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/TimeZoneGenericNames.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
* Copyright (C) 1996-2004, International Business Machines Corporation and    *
* others. All Rights Reserved.                                                *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/UForwardCharacterIterator.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
* Copyright (C) 1996-2004, International Business Machines Corporation and    *
* others. All Rights Reserved.                                                *
*******************************************************************************
*/
/**
* <code>Replaceable</code> is an interface representing a
* string of characters that supports the replacement of a range of
* itself with a new string of characters.  It is used by APIs that
* change a piece of text while retaining metadata.  Metadata is data
* other than the Unicode characters returned by char32At().  One
* example of metadata is style attributes; another is an edit
* history, marking each character with an author and revision number.
*
* <p>An implicit aspect of the <code>Replaceable</code> API is that
* during a replace operation, new characters take on the metadata of
* the old characters.  For example, if the string "the <b>bold</b>
* font" has range (4, 8) replaced with "strong", then it becomes "the
* <b>strong</b> font".
*
* <p><code>Replaceable</code> specifies ranges using a start
* offset and a limit offset.  The range of characters thus specified
* includes the characters at offset start..limit-1.  That is, the
* start offset is inclusive, and the limit offset is exclusive.
*
* <p><code>Replaceable</code> also includes API to access characters
* in the string: <code>length()</code>, <code>charAt()</code>,
```

* <code>char32At()</code>, and <code>extractBetween()</code>.
*
* <p>For a subclass to support metadata, typical behavior of
* <code>replace()</code> is the following:
*
*   Set the metadata of the new text to the metadata of the first
*   character replaced
*   If no characters are replaced, use the metadata of the
*   previous character
*   If there is no previous character (i.e. start == 0), use the
*   following character
*   If there is no following character (i.e. the replaceable was
*   empty), use default metadata
*   If the code point U+FFFF is seen, it should be interpreted as
*   a special marker having no metadata
*
*
* If this is not the behavior, the subclass should document any differences.
*
* <p>Copyright © IBM Corporation 1999. All rights reserved.
*
* @author Alan Liu
* @stable ICU 2.0
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Replaceable.java
No license file was found, but licenses were detected in source scan.

/*
****
* Copyright (C) 2010-2014, International Business Machines
* Corporation and others. All Rights Reserved.
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UTS46.java
No license file was found, but licenses were detected in source scan.

/*
****
* Copyright (C) 2014, International Business Machines Corporation and
* others. All Rights Reserved.
****
*/

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/FilteredBreakIteratorBuilder.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/OutputInt.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/ScientificNumberFormatter.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Pair.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/locale/KeyTypeData.java
No license file was found, but licenses were detected in source scan.

/*
*   Copyright (C) 1996-2014, International Business Machines
*   Corporation and others. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/SimpleTimeZone.java
No license file was found, but licenses were detected in source scan.

/*
****
* Copyright (C) 2013-2015, International Business Machines
* Corporation and others. All Rights Reserved.
****
* CollationSettings.java, ported from collationsettings.h/.cpp
*
* C++ version created on: 2013feb07
* created by: Markus W. Scherer
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/coll/CollationSettings.java
No license file was found, but licenses were detected in source scan.

/*
****
* Copyright (C) 2006-2009, Google, International Business Machines Corporation *
* and others. All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/PatternTokenizer.java
No license file was found, but licenses were detected in source scan.

/*
****

```
* Copyright (C) 2013-2015, International Business Machines
* Corporation and others.  All Rights Reserved.
***********************************************************************
* CollationDataReader.java, ported from collationdatareader.h/.cpp
*
* C++ version created on: 2013feb07
* created by: Markus W. Scherer
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/coll/CollationDataReader.java
No license file was found, but licenses were detected in source scan.

```
/*
***********************************************************************
* Copyright (c) 2003-2014 International Business Machines
* Corporation and others.  All Rights Reserved.
***********************************************************************
* Author: Alan Liu
* Created: September 4 2003
* Since: ICU 2.8
***********************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ZoneMeta.java
No license file was found, but licenses were detected in source scan.

```
/*
***********************************************************************
* Copyright (C) 2013-2014, International Business Machines
* Corporation and others.  All Rights Reserved.
***********************************************************************
* TailoredSet.java, ported from collationsets.h/.cpp
*
* C++ version created on: 2013feb09
* created by: Markus W. Scherer
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/TailoredSet.java
No license file was found, but licenses were detected in source scan.

```
/*
*   Copyright (C) 2005-2010, International Business Machines
*   Corporation and others.  All Rights Reserved.
*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/STZInfo.java

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

/*
****
* Copyright (c) 2002-2015, International Business Machines
* Corporation and others. All Rights Reserved.
****
* Author: Alan Liu
* Created: November 5 2002
* Since: ICU 2.4
* 2010nov19 Markus Scherer Rewrite for formatVersion 2.
****
*/

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UPropertyAliases.java

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

/*
****
*
*   Copyright (C) 2009-2015, International Business Machines
*   Corporation and others. All Rights Reserved.
*
****
*/

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/UnicodeSetStringSpan.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/BMPSet.java

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

/*
****
* Copyright (C) 2005-2014, International Business Machines Corporation and   *
* others. All Rights Reserved.   *
****
*/

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Freezable.java

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

/*

```
*****************************************************************************
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* others. All Rights Reserved.                                            *
***************************************************************************** *
*
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetRecog_sbcs.java
No license file was found, but licenses were detected in source scan.

```
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 * others. All Rights Reserved.                                             *
 *****************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/OlsonTimeZone.java
No license file was found, but licenses were detected in source scan.

```
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 *****************************************************************************
 *
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetRecog_mbcs.java
No license file was found, but licenses were detected in source scan.

```
/*
 *****************************************************************************
 * Copyright (C) 2013-2014, International Business Machines
 * Corporation and others.  All Rights Reserved.
 *****************************************************************************
 * CollationRootElements.java, ported from collationrootelements.h/.cpp
 *
 * C++ version created on: 2013mar01
 * created by: Markus W. Scherer
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationRootElements.java

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

/*
****
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* others. All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/BuddhistCalendar.java
No license file was found, but licenses were detected in source scan.

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****
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Assert.java
No license file was found, but licenses were detected in source scan.

/*

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/coll/CollationDataBuilder.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/DangiCalendar.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CollatorServiceShim.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/locale/InternalLocaleBuilder.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/BaseLocale.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/LocaleObjectCache.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/AsciiUtil.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/Extension.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/LocaleExtensions.java
No license file was found, but licenses were detected in source scan.

```
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 * others. All Rights Reserved.                                               *
 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetMatch.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetRecognizer.java
No license file was found, but licenses were detected in source scan.

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 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUConfig.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
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 *******************************************************************************
 *
 * Unicode Spoof Detection
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/SpoofChecker.java
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```
/*
 *******************************************************************
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 * Corporation and others.  All Rights Reserved.
```

```
*********************************************************************
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/DontCareFieldPosition.java
No license file was found, but licenses were detected in source scan.

/*
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* others. All Rights Reserved.                                    *
*****************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/util/UResourceBundleIterator.java
No license file was found, but licenses were detected in source scan.

/**
*****************************************************************************
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*****************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/util/CurrencyServiceShim.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/UnicodeNameTransliterator.java
No license file was found, but licenses were detected in source scan.

/*
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*   and others.  All Rights Reserved.
****************************************************************
*   Date      Name       Description
```

```
 *   01/14/2002   aliu        Creation.
 **********************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/FunctionReplacer.java
No license file was found, but licenses were detected in source scan.

```
/*
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UnicodeRegex.java
No license file was found, but licenses were detected in source scan.

```
/*
 ************************************************************************
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 * others. All Rights Reserved.
 ************************************************************************
 */
// Hashing implementation functions.  FNV hash.  Respected public domain algorithm.
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie2.java
No license file was found, but licenses were detected in source scan.

```
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/IterableComparator.java
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```
/*
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 ********************************************************************
 * Author: Mark Davis
```

```
 ********************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Relation.java
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```
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 ***************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/CharsetRecog_UTF8.java
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```
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 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/ICUCurrencyDisplayInfoProvider.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie2_32.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/ICUResourceTableAccess.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie2_16.java
No license file was found, but licenses were detected in source scan.

```
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 ***************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUDebug.java
No license file was found, but licenses were detected in source scan.

```
/*
 ***************************************************************************
```

```
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* others. All Rights Reserved.                                    *
************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/UnicodeDecompressor.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeCompressor.java
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```
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************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/ParseStatus.java
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```
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************************************************************************
*/
```

Found in path(s):
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```
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************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/CharSequences.java
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```
/*
************************************************************************
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```

```
*************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUCache.java
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```
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*************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/BasicPeriodFormatter.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/XMLRecordReader.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/BasicPeriodFormatterFactory.java
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*
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/TitlecaseTransliterator.java
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```
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*************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/BasicPeriodBuilderFactory.java
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```
/*
************************************************************************
```

```
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 ******************************************************************
 * Author: Mark Davis
 ******************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Row.java
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```
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 *******************************************************************************
 */
```

Found in path(s):
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```
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 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/BasicDurationFormatter.java
No license file was found, but licenses were detected in source scan.

```
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 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BurmeseBreakEngine.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ThaiBreakEngine.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DictionaryBreakEngine.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-

jar/com/ibm/icu/impl/SimplePatternFormatter.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/LanguageBreakEngine.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/BytesDictionaryMatcher.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/LaoBreakEngine.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/KhmerBreakEngine.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/UnhandledBreakEngine.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/CharsDictionaryMatcher.java

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

```
/*
 *****************************************************************************
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 * others. All Rights Reserved.                                     *
 *****************************************************************************
 */
/**
 * A set of rules for a <code>RuleBasedTransliterator</code>.  This set encodes
 * the transliteration in one direction from one set of characters or short
 * strings to another.  A <code>RuleBasedTransliterator</code> consists of up to
 * two such sets, one for the forward direction, and one for the reverse.
 *
 * <p>A <code>TransliterationRuleSet</code> has one important operation, that of
 * finding a matching rule at a given point in the text.  This is accomplished
 * by the <code>findMatch()</code> method.
 *
 * <p>Copyright &copy; IBM Corporation 1999.  All rights reserved.
 *
 * @author Alan Liu
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/TransliterationRuleSet.java

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```
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 ************************************************************************
 *   Copyright (c) 2002-2007, International Business Machines Corporation
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 ************************************************************************
 *   Date        Name        Description
 *   01/14/2002  aliu        Creation.
 ************************************************************************
 */
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/StringReplacer.java

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```
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*******************************************************************************
*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/CompactDecimalDataCache.java

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*
*******************************************************************************
*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/UScriptRun.java

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

```
/*
*******************************************************************************
* Copyright (C) 2013-2015, International Business Machines
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*******************************************************************************
* CollationFastLatin.java, ported from collationfastlatin.h/.cpp
*
* C++ version created on: 2013aug09
* created by: Markus W. Scherer
*/
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/coll/CollationFastLatin.java

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

```
/*
*******************************************************************************
```

```
* Copyright (C) 1996-2014, Google, International Business Machines Corporation and
* others. All Rights Reserved.                                    *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/CompactDecimalFormat.java
No license file was found, but licenses were detected in source scan.

```
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* others. All Rights Reserved.                                    *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/text/RbnfScannerProviderImpl.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
* Copyright (C) 1996-2011, International Business Machines Corporation and   *
* others. All Rights Reserved.                                    *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/lang/UCharacterNameIterator.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
* Copyright (C) 2007-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/impl/ResourceBasedPeriodFormatterDataService.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/RelativeDateTimeFormatter.java
No license file was found, but licenses were detected in source scan.

/*
****

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DictionaryMatcher.java
No license file was found, but licenses were detected in source scan.

/*
****
/**
* DateIntervalInfo is a public class for encapsulating localizable
* date time interval patterns. It is used by DateIntervalFormat.
*
* <P>
* For most users, ordinary use of DateIntervalFormat does not need to create
* DateIntervalInfo object directly.
* DateIntervalFormat will take care of it when creating a date interval
* formatter when user pass in skeleton and locale.
*
* <P>
* For power users, who want to create their own date interval patterns,
* or want to re-set date interval patterns, they could do so by
* directly creating DateIntervalInfo and manupulating it.
*
* <P>
* Logically, the interval patterns are mappings
* from (skeleton, the_largest_different_calendar_field)
* to (date_interval_pattern).
*
* <P>

* A skeleton
*
*
* only keeps the field pattern letter and ignores all other parts
* in a pattern, such as space, punctuations, and string literals.
*
* hides the order of fields.
*
* might hide a field's pattern letter length.
*
* For those non-digit calendar fields, the pattern letter length is
* important, such as MMM, MMMM, and MMMMM; EEE and EEEE,
* and the field's pattern letter length is honored.
*
* For the digit calendar fields, such as M or MM, d or dd, yy or yyyy,
* the field pattern length is ignored and the best match, which is defined
* in date time patterns, will be returned without honor the field pattern
* letter length in skeleton.
*
*
* <P>
* The calendar fields we support for interval formatting are:
* year, month, date, day-of-week, am-pm, hour, hour-of-day, minute, and
* second (though we do not currently have specific intervalFormat data for
* skeletons with seconds).
* Those calendar fields can be defined in the following order:
* year > month > date > am-pm > hour > minute > second
*
* The largest different calendar fields between 2 calendars is the
* first different calendar field in above order.
*
* For example: the largest different calendar fields between "Jan 10, 2007"
* and "Feb 20, 2008" is year.
*
* <P>
* There is a set of pre-defined static skeleton strings.
* There are pre-defined interval patterns for those pre-defined skeletons
* in locales' resource files.
* For example, for a skeleton YEAR_ABBR_MONTH_DAY, which is "yMMMd",
* in en_US, if the largest different calendar field between date1 and date2
* is "year", the date interval pattern is "MMM d, yyyy - MMM d, yyyy",
* such as "Jan 10, 2007 - Jan 10, 2008".
* If the largest different calendar field between date1 and date2 is "month",
* the date interval pattern is "MMM d - MMM d, yyyy",
* such as "Jan 10 - Feb 10, 2007".
* If the largest different calendar field between date1 and date2 is "day",
* the date interval pattern is ""MMM d-d, yyyy", such as "Jan 10-20, 2007".
*

* For date skeleton, the interval patterns when year, or month, or date is
* different are defined in resource files.
* For time skeleton, the interval patterns when am/pm, or hour, or minute is
* different are defined in resource files.
*
*
* <P>
* There are 2 dates in interval pattern. For most locales, the first date
* in an interval pattern is the earlier date. There might be a locale in which
* the first date in an interval pattern is the later date.
* We use fallback format for the default order for the locale.
* For example, if the fallback format is "{0} - {1}", it means
* the first date in the interval pattern for this locale is earlier date.
* If the fallback format is "{1} - {0}", it means the first date is the
* later date.
* For a particular interval pattern, the default order can be overriden
* by prefixing "latestFirst:" or "earliestFirst:" to the interval pattern.
* For example, if the fallback format is "{0}-{1}",
* but for skeleton "yMMMd", the interval pattern when day is different is
* "latestFirst:d-d MMM yy", it means by default, the first date in interval
* pattern is the earlier date. But for skeleton "yMMMd", when day is different,
* the first date in "d-d MMM yy" is the later date.
*
* <P>
* The recommended way to create a DateIntervalFormat object is to pass in
* the locale.
* By using a Locale parameter, the DateIntervalFormat object is
* initialized with the pre-defined interval patterns for a given or
* default locale.
* <P>
* Users can also create DateIntervalFormat object
* by supplying their own interval patterns.
* It provides flexibility for power usage.
*
* <P>
* After a DateIntervalInfo object is created, clients may modify
* the interval patterns using setIntervalPattern function as so desired.
* Currently, users can only set interval patterns when the following
* calendar fields are different: ERA, YEAR, MONTH, DATE, DAY_OF_MONTH,
* DAY_OF_WEEK, AM_PM, HOUR, HOUR_OF_DAY, MINUTE and SECOND.
* Interval patterns when other calendar fields are different is not supported.
* <P>
* DateIntervalInfo objects are cloneable.
* When clients obtain a DateIntervalInfo object,
* they can feel free to modify it as necessary.
* <P>
* DateIntervalInfo are not expected to be subclassed.
* Data for a calendar is loaded out of resource bundles.

* Through ICU 4.4, date interval patterns are only supported in the Gregoria
* calendar; non-Gregorian calendars are supported from ICU 4.4.1.
*
* @stable ICU 4.0
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DateIntervalInfo.java
No license file was found, but licenses were detected in source scan.

/**
****
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* others. All Rights Reserved.
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/UCharacterEnums.java
No license file was found, but licenses were detected in source scan.

/*
****
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* others. All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/TimeZoneFormat.java
No license file was found, but licenses were detected in source scan.

/*
****
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* others. All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/data/HolidayBundle_fr.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/data/HolidayBundle_it.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/data/HolidayBundle_da.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/data/HolidayBundle_es.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/data/HolidayBundle_el.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/data/HolidayBundle_en.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/SymbolTable.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/data/HolidayBundle_iw.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/data/HolidayBundle_de.java
No license file was found, but licenses were detected in source scan.

/**
****
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* others. All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterUtility.java
No license file was found, but licenses were detected in source scan.

/*
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* ***
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/ICUResourceBundle.java
No license file was found, but licenses were detected in source scan.

/**
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* others. All Rights Reserved.
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Collator.java
No license file was found, but licenses were detected in source scan.

/*
****

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* others. All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/PluralRulesLoader.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/JavaTimeZone.java
No license file was found, but licenses were detected in source scan.

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* others. All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CopticCalendar.java
No license file was found, but licenses were detected in source scan.

/*
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****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/SCSU.java
No license file was found, but licenses were detected in source scan.

/*
****
* Copyright (c) 2002-2010, International Business Machines
* Corporation and others. All Rights Reserved.
****
* Author: M. Davis
* Created: December 2002 (moved from UnicodeSet)
* Since: ICU 2.4
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/SortedSetRelation.java
No license file was found, but licenses were detected in source scan.

/*

```
*********************************************************************
* Copyright (C) 2012-2015, International Business Machines
* Corporation and others.  All Rights Reserved.
*********************************************************************
* CollationKeys.java, ported from collationkeys.h/.cpp
*
* C++ version created on: 2012sep02
* created by: Markus W. Scherer
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationKeys.java
No license file was found, but licenses were detected in source scan.

```
/*
 *********************************************************************
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 *********************************************************************
 *   created on: 2011jan06
 *   created by: Markus W. Scherer
 *   ported from ICU4C ucharstrie.h/.cpp
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CharsTrie.java
No license file was found, but licenses were detected in source scan.

```
/*
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 * others. All Rights Reserved.
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/NameUnicodeTransliterator.java
No license file was found, but licenses were detected in source scan.

```
/**
 *********************************************************************
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 * others. All Rights Reserved.
 *********************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/lang/UCharacterDirection.java

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

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* others. All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharArrayIterator.java
No license file was found, but licenses were detected in source scan.

/*
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****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/LocaleIDs.java
No license file was found, but licenses were detected in source scan.

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****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Norm2AllModes.java
No license file was found, but licenses were detected in source scan.

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****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UFormat.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/StringPrep.java
No license file was found, but licenses were detected in source scan.

/* Copyright IBM Corporation, 1996-2011. All Rights Reserved.   */

// copyright=" Copyright (c) IBM Corporation 1996, 2000. All rights reserved. ";

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/math/BigDecimal.java
No license file was found, but licenses were detected in source scan.

```
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*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Punycode.java
No license file was found, but licenses were detected in source scan.

```
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*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/TransliteratorParser.java
No license file was found, but licenses were detected in source scan.

```
/*
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*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ULocale.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
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*******************************************************************************
*   created on: 2011jan07
*   created by: Markus W. Scherer
*   ported from ICU4C ucharstriebuilder/.cpp
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CharsTrieBuilder.java
No license file was found, but licenses were detected in source scan.

```
/*
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*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/EthiopicCalendar.java
No license file was found, but licenses were detected in source scan.

```
/*
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* others. All Rights Reserved.                                    *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/TimeZoneNamesFactoryImpl.java
No license file was found, but licenses were detected in source scan.

```
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*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterProperty.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UCharacterIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeSet.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBIDataWrapper.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/SimpleDateFormat.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUBinary.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/StringSearch.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/VersionInfo.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/UCharacterNameReader.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/ReplaceableUCharacterIterator.java

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

```
/*
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* others. All Rights Reserved.                                    *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CjkBreakEngine.java
No license file was found, but licenses were detected in source scan.

```
/**
*******************************************************************************
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* others. All Rights Reserved.                                    *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/StringTokenizer.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
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* Corporation and others. All Rights Reserved.                          *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/MeasureUnit.java
No license file was found, but licenses were detected in source scan.

```
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*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/IntTrie.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CharTrie.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
* Copyright (C) 2012-2014, International Business Machines
* Corporation and others.  All Rights Reserved.
*******************************************************************************
* CollationRoot.java, ported from collationroot.h/.cpp
*
* C++ version created on: 2012dec17
* created by: Markus W. Scherer
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationRoot.java
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************
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*******************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ChineseDateFormat.java
No license file was found, but licenses were detected in source scan.

```
/*
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* others. All Rights Reserved.                                  *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/StringTransform.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
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* others. All Rights Reserved.                                  *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/PeriodBuilder.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/PeriodFormatterFactory.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/DurationFormatter.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/PeriodFormatter.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/TimeUnitConstants.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/impl/RecordWriter.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/DateFormatter.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/impl/RecordReader.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/Period.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/TimeUnit.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************
 *   Copyright (C) 2001-2014, International Business Machines
 *   Corporation and others.  All Rights Reserved.
 *******************************************************************
 *   Date        Name        Description
 *   06/08/01    aliu        Creation.
 *******************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/NormalizationTransliterator.java
No license file was found, but licenses were detected in source scan.

```
/**
 *******************************************************************************
 * Copyright (C) 1996-2004, International Business Machines Corporation and    *
 * others. All Rights Reserved.                                                *
 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/lang/UCharacterCategory.java
No license file was found, but licenses were detected in source scan.

```
/**
 *******************************************************************************
 * Copyright (C) 1996-2014, International Business Machines Corporation and
 * others. All Rights Reserved.
 *******************************************************************************
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CollationKey.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/BOCSU.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/UProperty.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CollationElementIterator.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
 * Copyright (C) 1996-2011, International Business Machines Corporation and    *
 * others. All Rights Reserved.                                               *
 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Holiday.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/LowercaseTransliterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CalendarAstronomer.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UppercaseTransliterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CalendarCache.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/IndianCalendar.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
 * Copyright (C) 2010-2014, Google, Inc.; International Business Machines      *
 * Corporation and others. All Rights Reserved.                               *
 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/LocalePriorityList.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
 * Copyright (c) 2007-2015 International Business Machines Corporation and     *
 * others.  All rights reserved.                                              *
 *******************************************************************************
 */
```

Found in path(s):

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/SimpleCache.java
No license file was found, but licenses were detected in source scan.

/*
 ****
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 * others. All Rights Reserved.
 ****
 */

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ICUException.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/SimpleFilteredSentenceBreakIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/util/ICUUncheckedIOException.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/util/ICUCloneNotSupportedException.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/TZDBTimeZoneNames.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeSetSpanner.java
No license file was found, but licenses were detected in source scan.

/*
 ****
 * Copyright (C) 2008-2015, Google, International Business Machines Corporation
 * and others. All Rights Reserved.
 ****
 */

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/IdentifierInfo.java
No license file was found, but licenses were detected in source scan.

/*
 ****
 * Copyright (C) 2013-2015, International Business Machines
 * Corporation and others. All Rights Reserved.
 ****
 * CollationRuleParser.java, ported from collationruleparser.h/.cpp
 *
 * C++ version created on: 2013apr10
 * created by: Markus W. Scherer
 */

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/coll/CollationRuleParser.java

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

```
/*
*******************************************************************************
* Copyright (C) 1996-2014, International Business Machines Corporation and
* others. All Rights Reserved.
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/HebrewCalendar.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BreakTransliterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterName.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
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* others. All Rights Reserved.
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/StringRange.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
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* and others. All Rights Reserved.                                            *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/GenderInfo.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
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* Corporation and others. All Rights Reserved.                               *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/SourceTargetUtility.java
No license file was found, but licenses were detected in source scan.

```
/*
********************************************************************
* Copyright (c) 2003-2010, International Business Machines
* Corporation and others.  All Rights Reserved.
********************************************************************
* Author: Alan Liu
* Created: October 2 2003
* Since: ICU 2.8
********************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/TimeZoneAdapter.java
No license file was found, but licenses were detected in source scan.

```
/*
***********************************************************************
*   Copyright (C) 2010-2014, International Business Machines
*   Corporation and others.  All Rights Reserved.
***********************************************************************
*   created on: 2010aug21
*   created by: Markus W. Scherer
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/MessagePattern.java
No license file was found, but licenses were detected in source scan.

```
/*
***********************************************************************
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* others. All Rights Reserved.                                 *
***********************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/JapaneseCalendar.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CompactByteArray.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CompactCharArray.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/PersianCalendar.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/StringCharacterIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/EasterHoliday.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeSetIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RemoveTransliterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ComposedCharIter.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeFilter.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CanonicalIterator.java
No license file was found, but licenses were detected in source scan.

```
/*
 ******************************************************************************
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 ******************************************************************************
 *  created on: 2011jan05
 *  created by: Markus W. Scherer
 *  ported from ICU4C bytestriebuilder.h/.cpp
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/BytesTrieBuilder.java
No license file was found, but licenses were detected in source scan.

```
/**
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 * others. All Rights Reserved.                                    *
 ******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUNotifier.java
No license file was found, but licenses were detected in source scan.

```
/*
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 *
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/TransformTransliterator.java
No license file was found, but licenses were detected in source scan.

```
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 * others. All Rights Reserved.                                    *
 ******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/LocaleIDParser.java

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

```
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*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/SoftCache.java
No license file was found, but licenses were detected in source scan.

```
/*
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* others. All Rights Reserved.                               *
******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/NumberFormatServiceShim.java
No license file was found, but licenses were detected in source scan.

```
/*
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******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/DateTimeRule.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/TimeZoneTransition.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/AnnualTimeZoneRule.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/TimeZoneRule.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/TimeArrayTimeZoneRule.java
No license file was found, but licenses were detected in source scan.

```
/*
******************************************************************************
* Copyright (C) 2010-2014, International Business Machines
* Corporation and others.  All Rights Reserved.
******************************************************************************
* CollationIterator.java, ported from collationiterator.h/.cpp
```

```
*
* C++ version created on: 2010oct27
* created by: Markus W. Scherer
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/coll/CollationIterator.java
No license file was found, but licenses were detected in source scan.

```
/*
*********************************************************************
* Copyright (c) 2004-2010, International Business Machines
* Corporation and others.  All Rights Reserved.
*********************************************************************
* Author: Alan Liu
* Created: April 12, 2004
* Since: ICU 3.0
*********************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CurrencyAmount.java
No license file was found, but licenses were detected in source scan.

```
/*
***********************************************************************************
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* others. All Rights Reserved.
***********************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/MultiComparator.java
No license file was found, but licenses were detected in source scan.

```
/*
*********************************************************************
*   Copyright (c) 2002, International Business Machines Corporation
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*********************************************************************
*   Date        Name        Description
*   01/14/2002  aliu        Creation.
*********************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeReplacer.java

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

```
/*
******************************************************************************
*
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*
******************************************************************************
*   CollationWeights.java, ported from collationweights.h/.cpp
*
*   C++ version created on: 2001mar08 as ucol_wgt.h
*   created by: Markus W. Scherer
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/coll/CollationWeights.java
No license file was found, but licenses were detected in source scan.

```
/*
*********************************************************************
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*********************************************************************
* Author: Alan Liu
* Created: September 23 2003
* Since: ICU 2.8
*********************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/RuleCharacterIterator.java
No license file was found, but licenses were detected in source scan.

```
/*
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* others. All Rights Reserved.                                    *
******************************************************************************
*
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/CharsetRecog_Unicode.java

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```
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```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/RuleBasedBreakIterator.java
No license file was found, but licenses were detected in source scan.

```
/**
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******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/data/ResourceReader.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Currency.java
No license file was found, but licenses were detected in source scan.

```
/*
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* others. All Rights Reserved.                                    *
******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ValueIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/TrieBuilder.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/RangeValueIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/IntTrieBuilder.java
No license file was found, but licenses were detected in source scan.

```
/**
******************************************************************************
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* others. All Rights Reserved.                                    *
******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ByteArrayWrapper.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RawCollationKey.java
No license file was found, but licenses were detected in source scan.

/*
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*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/GregorianCalendar.java
No license file was found, but licenses were detected in source scan.

/*
****
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* others. All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/impl/DataRecord.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/PeriodFormatterService.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/impl/PeriodFormatterDataService.java
No license file was found, but licenses were detected in source scan.

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* others. All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/StringUCharacterIterator.java
No license file was found, but licenses were detected in source scan.

/*
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****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CacheBase.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
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* others. All Rights Reserved.                                         *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/NumberingSystem.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/util/IllformedLocaleException.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CurrencyData.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************
* Copyright (c) 2002-2014, International Business Machines Corporation
* and others.  All Rights Reserved.
*******************************************************************
* Date       Name       Description
* 06/06/2002  aliu       Creation.
*******************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/AnyTransliterator.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
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* others. All Rights Reserved.                                         *
*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/impl/YMDDateFormatter.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************
*   Copyright (c) 2002-2011, International Business Machines Corporation
```

```
 *   and others.  All Rights Reserved.
 ************************************************************************
 *   Date        Name        Description
 *   01/14/2002  aliu        Creation.
 ************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/TransliteratorIDParser.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
 * Copyright (C) 2009-2014, International Business Machines Corporation and    *
 * others. All Rights Reserved.                                               *
 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/locale/UnicodeLocaleExtension.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RbnfLenientScanner.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CurrencyPluralInfo.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/RbnfLenientScannerProvider.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/ICUCurrencyMetaInfo.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
 * Copyright (C) 2004-2014, International Business Machines Corporation and    *
 * others. All Rights Reserved.                                               *
 *******************************************************************************
 *
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/UniversalTimeScale.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
 * Copyright (C) 1996-2007, International Business Machines Corporation and    *
 * others. All Rights Reserved.                                               *
 *******************************************************************************
 *
```

```
*************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/LocaleUtility.java
No license file was found, but licenses were detected in source scan.

```
/*
*************************************************************************
*   Copyright (C) 2001-2011, International Business Machines
*   Corporation and others.  All Rights Reserved.
*************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BidiRun.java
No license file was found, but licenses were detected in source scan.

```
/*
*************************************************************************
* Copyright (C) 2013-2015, International Business Machines
* Corporation and others.  All Rights Reserved.
*************************************************************************
* CollationFastLatinBuilder.java, ported from collationfastlatinbuilder.h/.cpp
*
* C++ version created on: 2013aug09
* created by: Markus W. Scherer
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/coll/CollationFastLatinBuilder.java
No license file was found, but licenses were detected in source scan.

```
/**
*************************************************************************
* Copyright (C) 2001-2015 International Business Machines Corporation and
* others. All Rights Reserved.
*************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/UScript.java
No license file was found, but licenses were detected in source scan.

```
/**
*************************************************************************
* Copyright (C) 1996-2009, International Business Machines Corporation and    *
```

* others. All Rights Reserved.   *
****
*/
//   "Copyright (C) 2010, International Business Machines Corporation and others. All Rights Reserved.";

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Differ.java
No license file was found, but licenses were detected in source scan.

/*
****
* Copyright (C) 2004-2006, International Business Machines Corporation and   *
* others. All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/util/UResourceTypeMismatchException.java
No license file was found, but licenses were detected in source scan.

/*
****
*   Copyright (C) 2007-2014, International Business Machines
*   Corporation and others. All Rights Reserved.
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/DateNumberFormat.java
No license file was found, but licenses were detected in source scan.

/*
****
* Copyright (C) 2004-2009, International Business Machines Corporation and   *
* others. All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/RBNFChinesePostProcessor.java
No license file was found, but licenses were detected in source scan.

/*
****
* Copyright (C) 2009-2015, Google, Inc.; International Business Machines Corporation   *
* and others. All Rights Reserved.   *

```
 *********************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/LocaleMatcher.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
 * Copyright (C) 2007-2008, International Business Machines Corporation and    *
 * others. All Rights Reserved.                                   *
 *******************************************************************************
 */
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/InitialTimeZoneRule.java
No license file was found, but licenses were detected in source scan.

```
/*
 *******************************************************************************
 * Copyright (C) 1996-2015, International Business Machines Corporation and    *
 * others. All Rights Reserved.                                   *
 *******************************************************************************
 */
/**
 * <code>Transliterator</code> is an abstract class that transliterates text from one format to another. The most common
 * kind of transliterator is a script, or alphabet, transliterator. For example, a Russian to Latin transliterator
 * changes Russian text written in Cyrillic characters to phonetically equivalent Latin characters. It does not
 * <em>translate</em> Russian to English! Transliteration, unlike translation, operates on characters, without reference
 * to the meanings of words and sentences.
 *
 * <p>
 * Although script conversion is its most common use, a transliterator can actually perform a more general class of
 * tasks. In fact, <code>Transliterator</code> defines a very general API which specifies only that a segment of the
 * input text is replaced by new text. The particulars of this conversion are determined entirely by subclasses of
 * <code>Transliterator</code>.
 *
 * <p>
 * <b>Transliterators are stateless</b>
 *
 * <p>
 * <code>Transliterator</code> objects are <em>stateless</em>; they retain no information between calls to
 * <code>transliterate()</code>. As a result, threads may share transliterators without synchronizing them. This might
 * seem to limit the complexity of the transliteration operation. In practice, subclasses perform complex
 * transliterations by delaying the replacement of text until it is known that no other replacements are possible. In
```

* other words, although the <code>Transliterator</code> objects are stateless, the source text itself embodies all the
 * needed information, and delayed operation allows arbitrary complexity.
 *
 * <p>
 * Batch transliteration
 *
 * <p>
 * The simplest way to perform transliteration is all at once, on a string of existing text. This is referred to as
 * batch transliteration. For example, given a string <code>input</code> and a transliterator
 <code>t</code>,
 * the call
 *
 * <blockquote><code>String result = t.transliterate(input);
 * </code></blockquote>
 *
 * will transliterate it and return the result. Other methods allow the client to specify a substring to be
 * transliterated and to use {@link Replaceable} objects instead of strings, in order to preserve out-of-band
 * information (such as text styles).
 *
 * <p>
 * Keyboard transliteration
 *
 * <p>
 * Somewhat more involved is keyboard, or incremental transliteration. This is the transliteration of text
 that
 * is arriving from some source (typically the user's keyboard) one character at a time, or in some other piecemeal
 * fashion.
 *
 * <p>
 * In keyboard transliteration, a <code>Replaceable</code> buffer stores the text. As text is inserted, as much as
 * possible is transliterated on the fly. This means a GUI that displays the contents of the buffer may show text being
 * modified as each new character arrives.
 *
 * <p>
 * Consider the simple <code>RuleBasedTransliterator</code>:
 *
 * <blockquote><code>
 * th>{theta}
 * t>{tau}
 * </code></blockquote>
 *
 * When the user types 't', nothing will happen, since the transliterator is waiting to see if the next character is
 * 'h'. To remedy this, we introduce the notion of a cursor, marked by a '|' in the output string:
 *
 * <blockquote><code>
 * t>|{tau}
 * {tau}h>{theta}
 * </code></blockquote>

*
* Now when the user types 't', tau appears, and if the next character is 'h', the tau changes to a theta. This is
* accomplished by maintaining a cursor position (independent of the insertion point, and invisible in the GUI) across
* calls to <code>transliterate()</code>. Typically, the cursor will be coincident with the insertion point, but in a
* case like the one above, it will precede the insertion point.
*
* <p>
* Keyboard transliteration methods maintain a set of three indices that are updated with each call to
* <code>transliterate()</code>, including the cursor, start, and limit. These indices are changed by the method, and
* they are passed in and out via a Position object. The <code>start</code> index marks the beginning of the substring
* that the transliterator will look at. It is advanced as text becomes committed (but it is not the committed index;
* that's the <code>cursor</code>). The <code>cursor</code> index, described above, marks the point at which the
* transliterator last stopped, either because it reached the end, or because it required more characters to
* disambiguate between possible inputs. The <code>cursor</code> can also be explicitly set by rules in a
* <code>RuleBasedTransliterator</code>. Any characters before the <code>cursor</code> index are frozen; future keyboard
* transliteration calls within this input sequence will not change them. New text is inserted at the <code>limit</code>
* index, which marks the end of the substring that the transliterator looks at.
*
* <p>
* Because keyboard transliteration assumes that more characters are to arrive, it is conservative in its operation. It
* only transliterates when it can do so unambiguously. Otherwise it waits for more characters to arrive. When the
* client code knows that no more characters are forthcoming, perhaps because the user has performed some input
* termination operation, then it should call <code>finishTransliteration()</code> to complete any pending
* transliterations.
*
* <p>
* Inverses
*
* <p>
* Pairs of transliterators may be inverses of one another. For example, if transliterator A transliterates
* characters by incrementing their Unicode value (so "abc" -> "def"), and transliterator B decrements character
* values, then A is an inverse of B and vice versa. If we compose A with B in a compound
* transliterator, the result is the indentity transliterator, that is, a transliterator that does not change its input
* text.
*
* The <code>Transliterator</code> method <code>getInverse()</code> returns a transliterator's inverse, if one exists,
* or <code>null</code> otherwise. However, the result of <code>getInverse()</code> usually will not be a true
* mathematical inverse. This is because true inverse transliterators are difficult to formulate. For example, consider
* two transliterators: AB, which transliterates the character 'A' to 'B', and BA, which transliterates
* 'B' to 'A'. It might seem that these are exact inverses, since
*

* <blockquote>"A" x AB -> "B"
* "B" x BA -> "A"</blockquote>
*
* where 'x' represents transliteration. However,
*
* <blockquote>"ABCD" x AB -> "BBCD"
* "BBCD" x BA -> "AACD"</blockquote>
*
* so AB composed with BA is not the identity. Nonetheless, BA may be usefully considered to be
* AB's inverse, and it is on this basis that AB<code>.getInverse()</code> could legitimately return
* BA.
*
* <p>
* Filtering
* <p>Each transliterator has a filter, which restricts changes to those characters selected by the filter. The
* filter affects just the characters that are changed -- the characters outside of the filter are still part of the
* context for the filter. For example, in the following even though 'x' is filtered out, and doesn't convert to y, it does
affect the conversion of 'a'.
*
* <pre>
* String rules = &quot;x &gt; y; x{a} &gt; b; &quot;;
* Transliterator tempTrans = Transliterator.createFromRules(&quot;temp&quot;, rules, Transliterator.FORWARD);
* tempTrans.setFilter(new UnicodeSet(&quot;[a]&quot;));
* String tempResult = tempTrans.transform(&quot;xa&quot;);
* // results in &quot;xb&quot;
*</pre>
* <p>
* IDs and display names
*
* <p>
* A transliterator is designated by a short identifier string or ID. IDs follow the format
* source-destination, where source describes the entity being replaced, and destination
* describes the entity replacing source. The entities may be the names of scripts, particular sequences of
* characters, or whatever else it is that the transliterator converts to or from. For example, a transliterator from
* Russian to Latin might be named "Russian-Latin". A transliterator from keyboard escape sequences to Latin-1
* characters might be named "KeyboardEscape-Latin1". By convention, system entity names are in English, with the
* initial letters of words capitalized; user entity names may follow any format so long as they do not contain dashes.
*
* <p>
* In addition to programmatic IDs, transliterator objects have display names for presentation in user interfaces,
* returned by {@link #getDisplayName}.
*
* <p>
* Factory methods and registration
*

---

* <p>
* In general, client code should use the factory method <code>getInstance()</code> to obtain an instance of a
* transliterator given its ID. Valid IDs may be enumerated using <code>getAvailableIDs()</code>. Since transliterators
* are stateless, multiple calls to <code>getInstance()</code> with the same ID will return the same object.
*
* <p>
* In addition to the system transliterators registered at startup, user transliterators may be registered by calling
* <code>registerInstance()</code> at run time. To register a transliterator subclass without instantiating it (until it
* is needed), users may call <code>registerClass()</code>.
*
* <p>
* Composed transliterators
*
* <p>
* In addition to built-in system transliterators like "Latin-Greek", there are also built-in composed
* transliterators. These are implemented by composing two or more component transliterators. For example, if we have
* scripts "A", "B", "C", and "D", and we want to transliterate between all pairs of them, then we need to write 12
* transliterators: "A-B", "A-C", "A-D", "B-A",..., "D-A", "D-B", "D-C". If it is possible to convert all scripts to an
* intermediate script "M", then instead of writing 12 rule sets, we only need to write 8: "A~M", "B~M", "C~M", "D~M",
* "M~A", "M~B", "M~C", "M~D". (This might not seem like a big win, but it's really 2n vs. n
* <sup>2</sup> - n, so as n gets larger the gain becomes significant. With 9 scripts, it's 18 vs. 72
* rule sets, a big difference.) Note the use of "~" rather than "-" for the script separator here; this indicates that
* the given transliterator is intended to be composed with others, rather than be used as is.
*
* <p>
* Composed transliterators can be instantiated as usual. For example, the system transliterator "Devanagari-Gujarati"
* is a composed transliterator built internally as "Devanagari~InterIndic;InterIndic~Gujarati". When this
* transliterator is instantiated, it appears externally to be a standard transliterator (e.g., getID() returns
* "Devanagari-Gujarati").
*
* <p>
* Subclassing
*
* <p>
* Subclasses must implement the abstract method <code>handleTransliterate()</code>.
* <p>
* Subclasses should override the <code>transliterate()</code> method taking a <code>Replaceable</code> and the
* <code>transliterate()</code> method taking a <code>String</code> and <code>StringBuffer</code> if the performance of
* these methods can be improved over the performance obtained by the default implementations in this class.
*
* <p>

* Copyright © IBM Corporation 1999. All rights reserved.
*
* @author Alan Liu
* @stable ICU 2.0
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Transliterator.java
No license file was found, but licenses were detected in source scan.

/*
****
* Copyright (c) 2004-2014, International Business Machines
* Corporation and others. All Rights Reserved.
****
* Author: Alan Liu
* Created: April 6, 2004
* Since: ICU 3.0
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/MessageFormat.java
No license file was found, but licenses were detected in source scan.

/*
****
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* others. All Rights Reserved.
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DictionaryData.java
No license file was found, but licenses were detected in source scan.

/*
****
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* others. All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UtilityExtensions.java
No license file was found, but licenses were detected in source scan.

/*

```
*******************************************************************************
* Copyright (C) 2010-2015, International Business Machines
* Corporation and others.  All Rights Reserved.
*******************************************************************************
* Collation.java, ported from collation.h/.cpp
*
* C++ version created on: 2010oct27
* created by: Markus W. Scherer
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/Collation.java
No license file was found, but licenses were detected in source scan.

```
/*
*******************************************************************************
* Copyright (C) 1996-2010, International Business Machines Corporation and    *
* others. All Rights Reserved.                                        *
*******************************************************************************
*/
/**
* A transliteration rule used by
* <code>RuleBasedTransliterator</code>.
* <code>TransliterationRule</code> is an immutable object.
*
* <p>A rule consists of an input pattern and an output string.  When
* the input pattern is matched, the output string is emitted.  The
* input pattern consists of zero or more characters which are matched
* exactly (the key) and optional context.  Context must match if it
* is specified.  Context may be specified before the key, after the
* key, or both.  The key, preceding context, and following context
* may contain variables.  Variables represent a set of Unicode
* characters, such as the letters <i>a</i> through <i>z</i>.
* Variables are detected by looking up each character in a supplied
* variable list to see if it has been so defined.
*
* <p>A rule may contain segments in its input string and segment
* references in its output string.  A segment is a substring of the
* input pattern, indicated by an offset and limit.  The segment may
* be in the preceding or following context.  It may not span a
* context boundary.  A segment reference is a special character in
* the output string that causes a segment of the input string (not
* the input pattern) to be copied to the output string.  The range of
* special characters that represent segment references is defined by
* RuleBasedTransliterator.Data.
*
* <p>Example: The rule "([a-z]) . ([0-9]) > $2 . $1" will change the input
* string "abc.123" to "ab1.c23".
```

*
* <p>Copyright © IBM Corporation 1999. All rights reserved.
*
* @author Alan Liu
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/TransliterationRule.java
No license file was found, but licenses were detected in source scan.

/*
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* others. All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BidiClassifier.java
No license file was found, but licenses were detected in source scan.

/*
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* others. All Rights Reserved.
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/TimeZoneNames.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/TimeZoneNamesImpl.java
No license file was found, but licenses were detected in source scan.

/*
****
* Copyright (c) 2004-2015, International Business Machines
* Corporation and others. All Rights Reserved.
****
* Author: Alan Liu
* Created: April 20, 2004
* Since: ICU 3.0
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/MeasureFormat.java

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

/**
****
* Copyright (C) 2006-2015, International Business Machines Corporation and
* others. All Rights Reserved.
****
*
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/InvalidFormatException.java
No license file was found, but licenses were detected in source scan.

/*
****
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* All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Region.java
No license file was found, but licenses were detected in source scan.

/*
****
* Copyright (C) 1996-2010, International Business Machines Corporation and   *
* others. All Rights Reserved.   *
****
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/SimpleDateRule.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/data/HolidayBundle_da_DK.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/data/HolidayBundle_en_CA.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/data/HolidayBundle_en_GB.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/data/HolidayBundle_it_IT.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/SimpleHoliday.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/DateRule.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/UCharacterIteratorWrapper.java

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_fr_CA.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/TaiwanCalendar.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_el_GR.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_en_US.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_de_DE.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_de_AT.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_es_MX.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CharacterIteratorWrapper.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_iw_IL.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/HebrewHoliday.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_fr_FR.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/NullTransliterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_ja_JP.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/RangeDateRule.java
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*******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/RelativeDateFormat.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/BasicTimeZone.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/RuleBasedTimeZone.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/VTimeZone.java
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jar/com/ibm/icu/text/DateTimePatternGenerator.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/SharedObject.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/SelectFormat.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/TransliteratorRegistry.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/impl/PeriodFormatterData.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BreakIteratorFactory.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/ICUResourceBundleReader.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/UResourceBundle.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/ICUResourceBundleImpl.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DateFormat.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/TimeUnitFormat.java
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/*
 ****
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 ****
 * CollationCompare.java, ported from collationcompare.h/.cpp
 *
 * C++ version created on: 2012feb14 with new and old collation code
 * created by: Markus W. Scherer
 */

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/coll/CollationCompare.java
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```
*********************************************************************
*/
```

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*/
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```
/*
*****************************************************************
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*****************************************************************
* Author: Alan Liu
* Created: April 20, 2004
* Since: ICU 3.0
*****************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Measure.java
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```
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*********************************************************************
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```

* others. All Rights Reserved.   *
****
*/
/**
* A transliterator that is composed of two or more other
* transliterator objects linked together. For example, if one
* transliterator transliterates from script A to script B, and
* another transliterates from script B to script C, the two may be
* combined to form a new transliterator from A to C.
*
* <p>Composed transliterators may not behave as expected. For
* example, inverses may not combine to form the identity
* transliterator. See the class documentation for {@link
* Transliterator} for details.
*
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*
* @author Alan Liu
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/CompoundTransliterator.java
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****
*/
/**
* <code>ReplaceableString</code> is an adapter class that implements the
* <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.
*
* <p>Note: This class does not support attributes and is not

* intended for general use. Most clients will need to implement
* {@link Replaceable} in their text representation class.
*
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*
* @see Replaceable
* @author Alan Liu
* @stable ICU 2.0
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ReplaceableString.java

1.325 opentracing-api 0.31.0
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1.326 jsr305 2.0.3

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* /opt/ws_local/PERMITS_SQL/1069091512_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/ParamTag.java

* /opt/ws_local/PERMITS_SQL/1069091512_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/HtmlEscapingAwareTag.java

* /opt/ws_local/PERMITS_SQL/1069091512_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/ArgumentAware.java

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* /opt/ws_local/PERMITS_SQL/1069091512_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/CorsBeanDefinitionParser.java

* /opt/ws_local/PERMITS_SQL/1069091512_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/AbstractTemplateView.java

* /opt/ws_local/PERMITS_SQL/1069091512_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/InternalResourceViewResolver.java

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* /opt/ws_local/PERMITS_SQL/1069091512_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/ResourceTransformerChain.java

* /opt/ws_local/PERMITS_SQL/1069091512_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-

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* /opt/ws_local/PERMITS_SQL/1069091512_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-
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jar/org/springframework/web/servlet/resource/VersionStrategy.java

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jar/org/springframework/web/servlet/resource/ResourceResolver.java

* /opt/ws_local/PERMITS_SQL/1069091512_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/script/ScriptTemplateConfig.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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/**
* 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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1.330 messageformat 0.1.2

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1.331 owlapi-fixers 4.2.7

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1.332 spring-framework 4.3.19.RELEASE

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1.333 spring-boot 1.5.12.RELEASE

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* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/bind/YamlConfigurationFactory.java
* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/servlet/ErrorPage.java
* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/builder/SpringApplicationBuilder.java
* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-

jar/org/springframework/boot/diagnostics/analyzer/BeanCurrentlyInCreationFailureAnalyzer.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jackson/JsonComponentModule.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/TypeExcludeFilter.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/EmbeddedServletContainerCustomizerBeanPostProcessor.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/event/EventPublishingRunListener.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/support/ServletContextApplicationContextInitializer.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/jetty/JettyEmbeddedErrorHandler.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/SpringApplication.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/cloud/CloudFoundryVcapEnvironmentPostProcessor.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ErrorPageRegistrarBeanPostProcessor.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/ConfigurationWarningsApplicationContextInitializer.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/AnsiPropertySource.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/admin/SpringApplicationAdminMXBean.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/tomcat/SkipPatternJarScanner.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/info/GitProperties.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/validation/MessageInterpolatorFactory.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/annotation/DeterminableImports.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LoggerConfigurationComparator.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/log4j2/ColorConverter.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LoggerConfiguration.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/EnvironmentConverter.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/support/ErrorPageFilterConfiguration.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/log4j2/Log4J2LoggingSystem.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/validation/package-info.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-

jar/org/springframework/boot/context/embedded/tomcat/TomcatEmbeddedWebappClassLoader.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/annotation/package-info.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/AbstractLoggingSystem.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/json/JacksonJsonParser.java

* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/diagnostics/FailureAnalyzers.java

1.334 apache-log4j 2.17.1

1.334.1 Available under license :

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1.335 jackson-xc 2.10.4

1.335.1 Available under license :

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1.336 util 0.8.3-SNAPSHOT

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Manifest-Version: 1.0
Bnd-LastModified: 1466334126314
Build-Jdk: 1.7.0_91
Built-By: jenkins
Bundle-DocURL: https://www.opendaylight.org
Bundle-License: https://www.eclipse.org/legal/epl-v10.html
Bundle-ManifestVersion: 2
Bundle-Name: util
Bundle-SymbolicName: org.opendaylight.yangtools.util
Bundle-Vendor: OpenDaylight
Bundle-Version: 0.8.3.SNAPSHOT
Created-By: Apache Maven Bundle Plugin
Export-Package: org.opendaylight.yangtools.util;version="0.8.3";uses:="c
 om.google.common.base,javax.annotation,org.opendaylight.yangtools.conce
 pts",org.opendaylight.yangtools.util.concurrent;version="0.8.3";uses:="
 com.google.common.base,com.google.common.util.concurrent,javax.annotati
 on"
Import-Package: com.google.common.base;version="[18.0,19)",com.google.co
 mmon.cache;version="[18.0,19)",com.google.common.collect;version="[18.0
 ,19)",com.google.common.primitives;version="[18.0,19)",com.google.commo
 n.util.concurrent;version="[18.0,19)",com.romix.scala.collection.concur
 rent;version="[0.2,1)",javax.annotation,org.opendaylight.yangtools.conc
 epts;version="[0.8,1)",org.opendaylight.yangtools.util;version="[0.8,1)
 ",org.slf4j;version="[1.7,2)"

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326

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* /opt/cola/permits/1069083116_1685509485.9331932/0/util-0-8-3-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/1069083116_1685509485.9331932/0/util-0-8-3-jar/META-INF/maven/org.opendaylight.yangtools/util/pom.xml

1.337 hk2 2.5.0-b05

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1.338 jetty-webapp 9.3.27.v20190418

1.339 commons-http-client 3.0.1

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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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jar/org/apache/commons/httpclient/methods/multipart/FilePart.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/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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 * $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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/*
 * $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) $
 *
 * ==

Found in path(s):
* /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/methods/GetMethod.java,v 1.29 2004/06/13 20:22:19
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/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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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/HttpConnectionManager.java,v 1.24 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/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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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/util/HttpURLConnection.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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jar/org/apache/commons/httpclient/util/HttpURLConnection.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/protocol/ReflectionSocketFactory.java,v 1.4
2004/12/21 23:15:21 olegk Exp $
* $Revision: 155418 $
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jar/org/apache/commons/httpclient/protocol/ReflectionSocketFactory.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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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/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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jar/org/apache/commons/httpclient/methods/multipart/Part.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 $
 * $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/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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/*
* $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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/*
 * $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 $
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/*
 * $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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```

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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

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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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/*
* $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 $
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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 $
* $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/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
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/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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jar/org/apache/commons/httpclient/ChunkedOutputStream.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/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

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/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

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/StatusLine.java,v 1.14 2004/07/19 20:24:21 olegk Exp

$

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* /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/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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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/cookie/MalformedCookieException.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/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) $
 *
 * ====================================================================
```

/**

* Authentication policy class. The Authentication policy provides corresponding

* authentication scheme interfrace for a given type of authorization challenge.

* <p>The following specifications are provided:

*

*   <tt>Basic</tt>: Basic authentication scheme as defined in RFC2617

*   (considered inherently insecure, but most widely supported)

*   <tt>Digest</tt>: Digest authentication scheme as defined in RFC2617

*   <tt>NTLM</tt>: The NTLM scheme is a proprietary Microsoft Windows

*   Authentication protocol (considered to be the most secure among

*   currently supported authentication schemes)

*

*

* @author Oleg Kalnichevski

*

* @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

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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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/auth/CredentialsProvider.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/HttpClientError.java,v 1.4 2004/05/13 04:03:25
mbecke Exp $
 * $Revision: 155418 $
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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/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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jar/org/apache/commons/httpclient/HttpRecoverableException.java

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jar/org/apache/commons/httpclient/methods/TraceMethod.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/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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jar/org/apache/commons/httpclient/methods/StringRequestEntity.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 $
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jar/org/apache/commons/httpclient/ProtocolException.java
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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/protocol/ProtocolSocketFactory.java,v 1.10
2004/05/13 04:01:22 mbecke Exp $
 * $Revision: 155418 $
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jar/org/apache/commons/httpclient/protocol/ProtocolSocketFactory.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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 *
```

Found in path(s):

* /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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jar/org/apache/commons/httpclient/ConnectTimeoutException.java
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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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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/HttpsURL.java,v 1.11 2004/09/30 17:26:41 oglueck
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/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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*

Found in path(s):
* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/auth/AuthState.java
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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/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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jar/org/apache/commons/httpclient/UsernamePasswordCredentials.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/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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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/methods/multipart/MultipartRequestEntity.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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* /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/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/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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jar/org/apache/commons/httpclient/DefaultMethodRetryHandler.java

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```
/*
* $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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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/protocol/DefaultProtocolSocketFactory.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/EncodingUtil.java,v 1.8 2004/05/13 04:01:22
mbecke Exp $
* $Revision: 155418 $
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jar/org/apache/commons/httpclient/util/EncodingUtil.java
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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 $
 * $Revision: 155418 $
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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/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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/*
 * $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/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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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/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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jar/org/apache/commons/httpclient/HttpMethodDirector.java
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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 $
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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/auth/NTLM.java,v 1.11 2004/05/13 04:02:00 mbecke
Exp $
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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 Jeff Dever
* @author Mike Bowler
*
* @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/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
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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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jar/org/apache/commons/httpclient/methods/ExpectContinueMethod.java
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/*

* $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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```
/*
*   $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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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/auth/AuthChallengeParser.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/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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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/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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/*

* $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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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/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/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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jar/org/apache/commons/httpclient/methods/multipart/StringPart.java
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/*
* $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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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/PartSource.java,v 1.6 2004/04/18
23:51:37 jsdever Exp $

* $Revision: 155418 $

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jar/org/apache/commons/httpclient/methods/multipart/PartSource.java
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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 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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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/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/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/NameValuePair.java,v 1.17 2004/04/18 23:51:35
jsdever Exp $

* $Revision: 157457 $

* $Date: 2005-03-14 15:23:16 -0500 (Mon, 14 Mar 2005) $

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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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/*
* $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/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 $

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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

* http://davenport.sourceforge.net/ntlm.html.

*

* @author Remy Maucherat

* @author Rodney Waldhoff

* @author Jeff Dever

* @author Ortwin Gl???ck

* @author Sean C. Sullivan

* @author Adrian Sutton

* @author Mike Bowler

* @author Oleg Kalnichevski

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* /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/util/URIUtil.java,v 1.27 2004/05/05 20:34:01 olegk

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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/HttpMethod.java,v 1.43 2004/10/07 16:14:15 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/HttpMethod.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/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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jar/org/apache/commons/httpclient/DefaultHttpMethodRetryHandler.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 $
* $Revision: 155418 $
* $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/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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jar/org/apache/commons/httpclient/ChunkedInputStream.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
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/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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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/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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/*
* $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 $
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jar/org/apache/commons/httpclient/HttpConstants.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/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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/*
* $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/methods/multipart/ByteArrayPartSource.java,v 1.7
2004/04/18 23:51:37 jsdever Exp $
* $Revision: 155418 $
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jar/org/apache/commons/httpclient/methods/multipart/ByteArrayPartSource.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 $
* $Revision: 155418 $
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jar/org/apache/commons/httpclient/methods/HeadMethod.java
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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 $
* $Revision: 155418 $
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jar/org/apache/commons/httpclient/HttpException.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/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/methods/PutMethod.java,v 1.26 2004/04/18 23:51:37
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/PostMethod.java,v 1.58 2004/08/08 12:50:09
olegk Exp $
* $Revision: 155418 $
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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/AutoCloseInputStream.java,v 1.9 2004/04/18 23:51:34
jsdever Exp $
* $Revision: 291181 $
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/*
* $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 $
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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/auth/InvalidCredentialsException.java,v 1.4
2004/05/13 04:02:00 mbecke 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/auth/InvalidCredentialsException.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/IdleConnectionHandler.java,v 1.2 2004/05/13
02:40:36 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/util/IdleConnectionHandler.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/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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jar/org/apache/commons/httpclient/protocol/SSLProtocolSocketFactory.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/Header.java,v 1.17 2004/09/15 20:42:17 olegk Exp $
* $Revision: 155418 $
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jar/org/apache/commons/httpclient/Header.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/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
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/*
 * $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
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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
oglueck Exp $
* $Revision: 368699 $
* $Date: 2006-01-13 07:24:45 -0500 (Fri, 13 Jan 2006) $
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jar/org/apache/commons/httpclient/auth/DigestScheme.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/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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* /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/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/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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jar/org/apache/commons/httpclient/URIException.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/Credentials.java,v 1.9 2004/04/18 23:51:34 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/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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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/util/ParameterParser.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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* $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 $
* $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/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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/*
* $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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/*
* $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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jar/org/apache/commons/httpclient/HostConfiguration.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 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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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/params/DefaultHttpParams.java,v 1.9 2004/12/21 23:15:21 olegk Exp $

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* /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/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/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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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/auth/RFC2617Scheme.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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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/ProxyHost.java,v 1.2 2005/01/14 21:16:40 olegk Exp
$

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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/HeaderGroup.java,v 1.8 2004/05/13 04:03:25 mbecke
Exp $

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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 $
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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/util/DateParseException.java,v 1.5 2004/11/06
19:15:42 mbecke Exp $
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* $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 $
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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/methods/DeleteMethod.java,v 1.14 2004/04/18
23:51:37 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/methods/multipart/FilePartSource.java,v 1.10
2004/04/18 23:51:37 jsdever Exp $
 * $Revision: 155418 $
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jar/org/apache/commons/httpclient/methods/multipart/FilePartSource.java

1.340 json 20160810

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1.341 dom4j 1.6.1

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Written by Doug Lea. Adapted and released, under explicit
permission, from JDK1.2 HashMap.java and Hashtable.java which
carries the following copyright:

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.
*/

Found in path(s):
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/tree/ConcurrentReaderHashMap.java
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Found in path(s):
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-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
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Branch.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/swing/XMLTableColumnDefinition.java
* /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
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/SingleIterator.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/XPPReader.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Node.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/NullAction.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/DocumentHelper.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DocumentSource.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractNode.java
* /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
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/NamespaceStack.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/BaseElement.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMElement.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/rule/pattern/NodeTypePattern.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/jaxb/JAXBRuntimeException.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
* /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.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
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1.342 xsdlib 2013.6.1

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jar/com/sun/msv/datatype/regexp/ParserForXMLSchema.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/regexp/RegexParser.java
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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/datetime/DateTimeFactory.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/NonPositiveIntegerType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
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jar/com/sun/msv/datatype/xsd/WhiteSpaceFacet.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/SerializationContext.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/XSDatatypeImpl.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-

jar/com/sun/msv/datatype/xsd/DataTypeWithLexicalConstraintFacet.java

* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
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jar/com/sun/msv/datatype/xsd/EntityType.java
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*/

Found in path(s):
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/regexp/Token.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/regexp/ParseException.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/regexp/RegularExpression.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/regexp/Match.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/regexp/Op.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/regexp/REUtil.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/regexp/BMPattern.java

1.343 javax-activation 1.2.0

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package javax.activation;

import java.util.Map;
import java.util.WeakHashMap;

/**
* The CommandMap class provides an interface to a registry of
* command objects available in the system.
* Developers are expected to either use the CommandMap
* implementation included with this package (MailcapCommandMap) or
* develop their own. Note that some of the methods in this class are
* abstract.
*/
public abstract class CommandMap {
  private static CommandMap defaultCommandMap = null;
  private static Map<ClassLoader,CommandMap> map =
   new WeakHashMap<ClassLoader,CommandMap>();

  /**
   * Get the default CommandMap.
   *
   *
   * In cases where a CommandMap instance has been previously set
   *   to some value (via <i>setDefaultCommandMap</i>)

```
 *  return the CommandMap.
 * <li>
 *  In cases where no CommandMap has been set, the CommandMap
 *      creates an instance of <code>MailcapCommandMap</code> and
 *      set that to the default, returning its value.
 *
 * </ul>
 *
 * @return the CommandMap
 */
  public static synchronized CommandMap getDefaultCommandMap() {
if (defaultCommandMap != null)
    return defaultCommandMap;

// fetch per-thread-context-class-loader default
ClassLoader tccl = SecuritySupport.getContextClassLoader();
CommandMap def = map.get(tccl);
if (def == null) {
    def = new MailcapCommandMap();
    map.put(tccl, def);
}
return def;
  }

 /**
  * Set the default CommandMap. Reset the CommandMap to the default by
  * calling this method with <code>null</code>.
  *
  * @param commandMap The new default CommandMap.
  * @exception SecurityException if the caller doesn't have permission
  *      to change the default
  */
 public static synchronized void setDefaultCommandMap(CommandMap commandMap) {
SecurityManager security = System.getSecurityManager();
if (security != null) {
    try {
// if it's ok with the SecurityManager, it's ok with me...
 security.checkSetFactory();
    } catch (SecurityException ex) {
// otherwise, we also allow it if this code and the
// factory come from the same (non-system) class loader (e.g.,
// the JAF classes were loaded with the applet classes).
 ClassLoader cl = CommandMap.class.getClassLoader();
 if (cl == null || cl.getParent() == null ||
    cl != commandMap.getClass().getClassLoader()) {
    throw ex;
}
    }
```

```
}
// remove any per-thread-context-class-loader CommandMap
map.remove(SecuritySupport.getContextClassLoader());
defaultCommandMap = commandMap;
}

/**
 * Get the preferred command list from a MIME Type. The actual semantics
 * are determined by the implementation of the CommandMap.
 *
 * @param mimeType the MIME type
 * @return the CommandInfo classes that represent the command Beans.
 */
abstract public  CommandInfo[] getPreferredCommands(String mimeType);

/**
 * Get the preferred command list from a MIME Type. The actual semantics
 * are determined by the implementation of the CommandMap. <p>
 *
 * The <code>DataSource</code> provides extra information, such as
 * the file name, that a CommandMap implementation may use to further
 * refine the list of commands that are returned.  The implementation
 * in this class simply calls the <code>getPreferredCommands</code>
 * method that ignores this argument.
 *
 * @param mimeType the MIME type
 * @param ds a DataSource for the data
 * @return the CommandInfo classes that represent the command Beans.
 * @since JAF 1.1
 */
public CommandInfo[] getPreferredCommands(String mimeType, DataSource ds) {
return getPreferredCommands(mimeType);
}

/**
 * Get all the available commands for this type. This method
 * should return all the possible commands for this MIME type.
 *
 * @param mimeType the MIME type
 * @return the CommandInfo objects representing all the commands.
 */
abstract public CommandInfo[] getAllCommands(String mimeType);

/**
 * Get all the available commands for this type. This method
 * should return all the possible commands for this MIME type. <p>
 *
 * The <code>DataSource</code> provides extra information, such as
```

```
 * the file name, that a CommandMap implementation may use to further
 * refine the list of commands that are returned.  The implementation
 * in this class simply calls the <code>getAllCommands</code>
 * method that ignores this argument.
 *
 * @param mimeType the MIME type
 * @param ds a DataSource for the data
 * @return the CommandInfo objects representing all the commands.
 * @since JAF 1.1
 */
public CommandInfo[] getAllCommands(String mimeType, DataSource ds) {
return getAllCommands(mimeType);
}

/**
 * Get the default command corresponding to the MIME type.
 *
 * @param mimeType the MIME type
 * @param cmdName the command name
 * @return the CommandInfo corresponding to the command.
 */
abstract public CommandInfo getCommand(String mimeType, String cmdName);

/**
 * Get the default command corresponding to the MIME type. <p>
 *
 * The <code>DataSource</code> provides extra information, such as
 * the file name, that a CommandMap implementation may use to further
 * refine the command that is chosen.  The implementation
 * in this class simply calls the <code>getCommand</code>
 * method that ignores this argument.
 *
 * @param mimeType the MIME type
 * @param cmdName the command name
 * @param ds a DataSource for the data
 * @return the CommandInfo corresponding to the command.
 * @since JAF 1.1
 */
public CommandInfo getCommand(String mimeType, String cmdName,
  DataSource ds) {
return getCommand(mimeType, cmdName);
}

/**
 * Locate a DataContentHandler that corresponds to the MIME type.
 * The mechanism and semantics for determining this are determined
 * by the implementation of the particular CommandMap.
 *
```

```
 * @param mimeType the MIME type
 * @return  the DataContentHandler for the MIME type
 */
abstract public DataContentHandler createDataContentHandler(String
    mimeType);

/**
 * Locate a DataContentHandler that corresponds to the MIME type.
 * The mechanism and semantics for determining this are determined
 * by the implementation of the particular CommandMap. <p>
 *
 * The <code>DataSource</code> provides extra information, such as
 * the file name, that a CommandMap implementation may use to further
 * refine the choice of DataContentHandler.  The implementation
 * in this class simply calls the <code>createDataContentHandler</code>
 * method that ignores this argument.
 *
 * @param mimeType the MIME type
 * @param ds a DataSource for the data
 * @return  the DataContentHandler for the MIME type
 * @since JAF 1.1
 */
public DataContentHandler createDataContentHandler(String mimeType,
    DataSource ds) {
return createDataContentHandler(mimeType);
 }

/**
 * Get all the MIME types known to this command map.
 * If the command map doesn't support this operation,
 * null is returned.
 *
 * @return  array of MIME types as strings, or null if not supported
 * @since JAF 1.1
 */
public String[] getMimeTypes() {
return null;
 }
}
```

1.344 jersey-media-jaxb 2.24.1

1.345 google-http-client 1.15.0-rc

1.345.1 Available under license :

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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/LoggingByteArrayOutputStream.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/JsonWebToken.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/LogRecordingHandler.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/HttpMediaType.java

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1.350 byte-buddy-agent 1.10.15

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1.352 jackson-jaxrs-base 2.10.4
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1.353 javax-inject 2.5.0-b05
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1.354 httpmime 4.2.3

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1.356 bson4jackson 2.7.0

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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/StringToObject.java

* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToShort.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/TwoWayConverter.java

* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToCharacter.java

* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/impl/DefaultMapper.java

* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-

jar/org/springframework/binding/method/InvalidMethodKeyException.java

* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/convert/converters/ObjectToArray.java

* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/method/MethodSignature.java

* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/convert/converters/StringToDouble.java

* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/convert/service/GenericConversionService.java

* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/expression/Expression.java

* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/convert/converters/StringToBoolean.java

* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/convert/converters/ArrayToArray.java

* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/convert/service/NoOpConverter.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/AbstractExpressionParser.java

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