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In your requests please include the following reference number **78EE117C99-201350194**

Contents

1.3.1.0 MRE Corona Assets for 201350194

2.1 axis 1.4

2.1.1 Available under license

2.2 checker 1.9.13

2.2.1 Available under license

2.3 checker-qual 1.9.13

2.4 commons compress 1.9

2.4.1 Available under license

2.5 commons-collections 4.0

2.5.1 Available under license

2.6 commons-collections 3.2.2

2.6.1 Available under license

2.7 commons-fileupload 1.2

2.7.1 Available under license

2.8 commons-httpclient 3.1.0

2.8.1 Available under license

2.9 commons-httpclient 3.0.1

2.10 drools-compiler 6.5.0.FINAL

2.11 drools-core 6.5.0.FINAL

2.12 drools-decisiontables 6.5.0.FINAL

2.13 drools-osgi-integration 6.5.0.FINAL

2.14 drools-reteoo 6.5.0.FINAL

2.15 drools-templates 6.5.0.FINAL

2.16 guice 4.0

2.16.1 Available under license

2.17 guice-multibindings 4

2.17.1 Available under license

2.18 ini4j 0.5.2

- 2.18.1 Available under license
- 2.19 jama 1.0.3**
 - 2.19.1 Available under license
- 2.20 kie-api 6.5.0.Final**
- 2.21 kie-internal 6.5.0.Final**
- 2.22 kie-spring 6.5.0**
- 2.23 knowledge-api 6.5.0.Final**
- 2.24 libthrift 0.11.0**
- 2.25 netty 3.9.0.final**
 - 2.25.1 Available under license
- 2.26 okhttp 3.9.0**
- 2.27 owlapi-osgidistribution 4.2.7**
 - 2.27.1 Available under license
- 2.28 POI 3.13**
 - 2.28.1 Available under license
- 2.29 poi-ooxml 3.13**
 - 2.29.1 Available under license
- 2.30 postgresql 42.2.5.jre7**
 - 2.30.1 Available under license
- 2.31 semargl-core 0.6.1**
- 2.32 semargl-rdf 0.6.1**
- 2.33 semargl-rdfa 0.6.1**
- 2.34 semargl-sesame 0.6.1**
- 2.35 sesame-model 2.7.16**
- 2.36 sesame-rio-api 2.7.16**
- 2.37 sesame-rio-binary 2.7.16**
- 2.38 sesame-rio-datatypes 2.7.16**
- 2.39 sesame-rio-languages 2.7.16**
- 2.40 sesame-rio-n3 2.7.16**
- 2.41 sesame-rio-nquads 2.7.16**
- 2.42 sesame-rio-ntriples 2.7.16**
- 2.43 sesame-rio-rdfjson 2.7.16**
- 2.44 sesame-rio-rdfxml 2.7.16**
- 2.45 sesame-rio-trig 2.7.16**
- 2.46 sesame-rio-trix 2.7.16**
- 2.47 sesame-rio-turtle 2.7.16**
- 2.48 sesame-util 2.7.16**
- 2.49 shiro-core 1.2.2**
 - 2.49.1 Available under license

2.50 spring-security-core 3.2.4.RELEASE

2.51 spring-security-web 3.2.4.RELEASE

2.52 swrlapi 1.1.4

2.52.1 Available under license

2.53 SWRLAPI Drools Engine 1.1.4

2.53.1 Available under license

2.54 trove4j 3.0.3

2.54.1 Available under license

2.55 xalan 2.7.2

2.55.1 Available under license

1.3 Clone- Corona Assets for 196661100 DNAC 1.4

3.1 "Java Concurrency in Practice" book annotations 1.0

3.1.1 Available under license

3.2 activation 1.2.0

3.2.1 Available under license

3.3 activation 1.1.1

3.4 activation 1.0.2

3.5 activemq-core 5.5.1

3.5.1 Available under license

3.6 activemq-pool 5.7.0

3.6.1 Available under license

3.7 activemq-protobuf 1.1

3.7.1 Available under license

3.8 aether-api 1.12

3.9 aether-util 1.12

3.10 aether-util 0.9.0.M2

3.10.1 Available under license

3.11 amqp-client 3.1.3

3.11.1 Available under license

3.12 amqp-client 3.6.2

3.12.1 Available under license

3.13 animal-sniffer-annotations 1.14

3.14 animal-sniffer-annotations 1.14

3.15 annotations 2.0.1

3.15.1 Available under license

3.16 ant 1.7.1

3.17 ant 1.6.5

3.18 ant-launcher 1.7.0

3.18.1 Available under license

- 3.19 Antlr 2.7.6**
 - 3.19.1 Available under license
- 3.20 ANTLR 2.7.6**
 - 3.20.1 Available under license
- 3.21 antlr 3.0.1**
- 3.22 antlr 2.7.7**
- 3.23 antlr4-runtime 4.5.1**
 - 3.23.1 Available under license
- 3.24 aopalliance 1.0**
- 3.25 aopalliance version 1.0 repackaged as a module 2.4.0-b31**
 - 3.25.1 Available under license
- 3.26 aopalliance-repackaged 2.5.0**
- 3.27 aopalliance-repackaged 2.5.0-b05**
 - 3.27.1 Available under license
- 3.28 aopalliance-repackaged 2.4.0-b34**
 - 3.28.1 Available under license
- 3.29 aopalliance-repackaged 2.4.0**
- 3.30 Apache Commons BeanUtils 1.9.2**
 - 3.30.1 Available under license
- 3.31 Apache Commons Logging 1.2**
 - 3.31.1 Available under license
- 3.32 Apache Geronimo JAX-WS Spec 2.2 1.1**
 - 3.32.1 Available under license
- 3.33 Apache Santuario 1.4.4**
 - 3.33.1 Available under license
- 3.34 Apache Velocity 1.7**
 - 3.34.1 Available under license
- 3.35 Apache XML Security for Java 1.5.7**
 - 3.35.1 Available under license
- 3.36 Apache-Ant 1.7.1**
 - 3.36.1 Available under license
- 3.37 aporeo-cas 3.5.2**
- 3.38 asm 5.0.4**
 - 3.38.1 Available under license
- 3.39 asm 2.5.0**
 - 3.39.1 Available under license
- 3.40 asm 7.0**
- 3.41 asm 2.2.0**
- 3.42 ASM 4.0**

- 3.42.1 Available under license
- 3.43 asm 4.0**
- 3.44 ASM Core 4.0**
 - 3.44.1 Available under license
- 3.45 ASM Core 3.1**
 - 3.45.1 Available under license
- 3.46 ASM Core 3.3.1**
 - 3.46.1 Available under license
- 3.47 asm-repackaged 2.5.0**
- 3.48 asm-tree 4.0**
- 3.49 asm-util 4.0**
- 3.50 aspectj 1.9.2**
- 3.51 aspectj 1.9.2**
 - 3.51.1 Available under license
- 3.52 aspectj-tools 1.9.2**
 - 3.52.1 Available under license
- 3.53 async-http-client-netty-utils 2.4.4**
- 3.54 avalon-framework 4.1.2**
- 3.55 avro 1.7.6**
 - 3.55.1 Available under license
- 3.56 axiom-api 1.2.12**
 - 3.56.1 Available under license
- 3.57 axiom-impl 1.2.12**
 - 3.57.1 Available under license
- 3.58 axis-saaj 1.3**
- 3.59 batik-bridge 1.7+r608262**
 - 3.59.1 Available under license
- 3.60 batik-css 1.7+r608262**
 - 3.60.1 Available under license
- 3.61 batik-dom 1.7+r608262**
 - 3.61.1 Available under license
- 3.62 batik-gvt 1.7**
 - 3.62.1 Available under license
- 3.63 batik-script 1.7**
 - 3.63.1 Available under license
- 3.64 batik-transcoder 1.7**
 - 3.64.1 Available under license
- 3.65 batik-xml 1.7**
 - 3.65.1 Available under license

- 3.66 bcel 2.7.2**
 - 3.66.1 Available under license
- 3.67 bcel 5.1.0**
- 3.68 bcpkix-jdk15on 1.52**
- 3.69 bcpkix-jdk15on 1.55**
 - 3.69.1 Available under license
- 3.70 bcpkix-jdk15on 1.54**
 - 3.70.1 Available under license
- 3.71 bcprov-jdk15on 1.55**
 - 3.71.1 Available under license
- 3.72 bcprov-jdk15on 1.54**
 - 3.72.1 Available under license
- 3.73 Bean Validation API 1.1.0.Final**
 - 3.73.1 Available under license
- 3.74 Beanshell 2.0b4**
 - 3.74.1 Available under license
- 3.75 Bouncy Castle Provider 1.51**
- 3.76 Bouncy Castle Provider 1.52**
 - 3.76.1 Available under license
- 3.77 bouncycastle 1.54**
- 3.78 bouncycastle 1.44**
- 3.79 bouncycastle 1.52**
- 3.80 bson 3.0.4**
- 3.81 bson4jackson 2.7.0**
- 3.82 btf 1.2**
 - 3.82.1 Available under license
- 3.83 c3p0:JDBC DataSources/Resource Pools 0.9.1.1**
 - 3.83.1 Available under license
- 3.84 cas-addons 1.12**
- 3.85 cas-client-core 3.2.1**
 - 3.85.1 Available under license
- 3.86 cas-client-core 3.2.1**
- 3.87 cas-server 3.5.2**
- 3.88 cas-server-core 3.5.2.1**
- 3.89 cas-server-core 3.5.2**
- 3.90 cas-server-integration-restlet 3.5.2**
- 3.91 cas-server-support-generic 3.5.2.1**
- 3.92 cas-server-support-ldap 3.5.2.1**
- 3.93 cassandra-driver-core 3.0.2**

- 3.94 cassandra-driver-core 2.1.0**
- 3.95 cassandra-driver-core 3.0.2**
- 3.96 cassandra-driver-mapping 2.1.0**
- 3.97 Castor 1.3.1**
 - 3.97.1 Available under license
- 3.98 castor-core 1.3.1**
 - 3.98.1 Available under license
- 3.99 castor-xml 1.3.1**
 - 3.99.1 Available under license
- 3.100 cglib 3.0**
 - 3.100.1 Available under license
- 3.101 cglib 3.1**
 - 3.101.1 Available under license
- 3.102 cglib 2.1.3**
 - 3.102.1 Available under license
- 3.103 cglib-nodep 2.2.2**
 - 3.103.1 Available under license
- 3.104 cglib-nodep 3.1**
 - 3.104.1 Available under license
- 3.105 checker-compat-qual 2.0.0**
- 3.106 class-model 2.5.0**
- 3.107 classmate 1.3.1**
 - 3.107.1 Available under license
- 3.108 classmate 1.3.1**
 - 3.108.1 Available under license
- 3.109 classmate 1.0.0**
 - 3.109.1 Available under license
- 3.110 classworlds 1.1-alpha-2**
 - 3.110.1 Available under license
- 3.111 classworlds 1.1**
- 3.112 Code Generation Library 3.1**
 - 3.112.1 Available under license
- 3.113 Code Generation Library 2.2**
 - 3.113.1 Available under license
- 3.114 com.springsource.org.apache.regexp 1.5.0**
 - 3.114.1 Available under license
- 3.115 Commons Collections 3.2.1**
 - 3.115.1 Available under license
- 3.116 Commons Collections 3.2.1**

- 3.116.1 Available under license
- 3.117 Commons Digester 1.8.1**
 - 3.117.1 Available under license
- 3.118 Commons Lang 2.4**
 - 3.118.1 Available under license
- 3.119 commons-beanutils 1.8.3**
 - 3.119.1 Available under license
- 3.120 commons-beanutils 1.9.2**
 - 3.120.1 Available under license
- 3.121 commons-beanutils 1.8.0**
 - 3.121.1 Available under license
- 3.122 commons-beanutils 1.9.3**
 - 3.122.1 Available under license
- 3.123 commons-chain 1.2**
 - 3.123.1 Available under license
- 3.124 commons-cli 1.0**
- 3.125 commons-codec 1.3**
 - 3.125.1 Available under license
- 3.126 commons-codec 1.6**
 - 3.126.1 Available under license
- 3.127 commons-codec 1.2**
 - 3.127.1 Notifications
 - 3.127.2 Available under license
- 3.128 commons-codec 1.4**
 - 3.128.1 Available under license
- 3.129 commons-codec 1.10**
 - 3.129.1 Available under license
- 3.130 commons-collections 3.2.2**
 - 3.130.1 Available under license
- 3.131 commons-collections 3.2.1**
 - 3.131.1 Available under license
- 3.132 commons-collections 3.2.2**
 - 3.132.1 Available under license
- 3.133 commons-collections 4.0**
 - 3.133.1 Available under license
- 3.134 commons-collections 3.2.2**
 - 3.134.1 Available under license
- 3.135 commons-collections 4.0**
 - 3.135.1 Available under license

- 3.136 commons-collections4 4.1**
 - 3.136.1 Available under license
- 3.137 commons-collections4 4.1**
 - 3.137.1 Available under license
- 3.138 commons-collections4 4.0**
 - 3.138.1 Available under license
- 3.139 commons-compiler 2.6.1**
 - 3.139.1 Available under license
- 3.140 commons-compress 1.18**
 - 3.140.1 Available under license
- 3.141 commons-compress 1.18**
 - 3.141.1 Available under license
- 3.142 commons-configuration 1.9**
 - 3.142.1 Available under license
- 3.143 commons-configuration 1.10**
 - 3.143.1 Available under license
- 3.144 commons-configuration 1.6**
 - 3.144.1 Available under license
- 3.145 commons-csv 1.6**
 - 3.145.1 Available under license
- 3.146 commons-csv 1.1**
 - 3.146.1 Available under license
- 3.147 commons-daemon 1.1.0**
 - 3.147.1 Available under license
- 3.148 commons-dbcp 1.4**
 - 3.148.1 Available under license
- 3.149 commons-digester 1.8.1**
 - 3.149.1 Available under license
- 3.150 commons-digester 1.8**
 - 3.150.1 Available under license
- 3.151 commons-discovery 0.4**
 - 3.151.1 Available under license
- 3.152 commons-discovery 0.2**
 - 3.152.1 Available under license
- 3.153 commons-el 5.5.23**
 - 3.153.1 Available under license
- 3.154 commons-exec 1.3**
 - 3.154.1 Available under license
- 3.155 commons-httpclient 3.1**

3.155.1 Available under license
3.156 commons-httpclient 3.1
3.156.1 Available under license
3.157 commons-httpclient 3.0.1
3.158 commons-httpclient 3.0.1
3.159 commons-jexl 1.1
3.159.1 Available under license
3.160 commons-jxpath 1.3
3.160.1 Available under license
3.161 commons-lang 2.0
3.162 commons-lang 2.5
3.162.1 Available under license
3.163 commons-lang 2.6
3.163.1 Available under license
3.164 commons-lang3 3.4
3.164.1 Available under license
3.165 commons-logging 1.0.3
3.165.1 Available under license
3.166 commons-logging 1.2
3.166.1 Available under license
3.167 commons-logging 1.1.3
3.167.1 Available under license
3.168 commons-logging 1.0.4
3.168.1 Available under license
3.169 commons-net 2.0
3.169.1 Available under license
3.170 commons-net 3.1
3.170.1 Available under license
3.171 commons-net 3.3b
3.171.1 Available under license
3.172 commons-net 3.0
3.172.1 Available under license
3.173 commons-pool 2.4.2
3.173.1 Available under license
3.174 commons-pool 1.5.3
3.174.1 Available under license
3.175 commons-pool 1.6
3.175.1 Available under license
3.176 commons-pool2 2.4.2

- 3.176.1 Available under license
- 3.177 commons-text 1.1**
 - 3.177.1 Available under license
- 3.178 commons-validator 1.5.1**
 - 3.178.1 Available under license
- 3.179 commons-validator 1.4.1**
 - 3.179.1 Available under license
- 3.180 compress 1.9**
 - 3.180.1 Available under license
- 3.181 concurrent 1.3.4**
- 3.182 config 1.0.2**
- 3.183 config-types 2.5.0**
- 3.184 cxf-api 2.7.3**
 - 3.184.1 Available under license
- 3.185 cxf-bundle 2.7.3**
 - 3.185.1 Available under license
- 3.186 cxf-rt-bindings-coloc 2.7.3**
 - 3.186.1 Available under license
- 3.187 cxf-rt-bindings-corba 2.7.3**
 - 3.187.1 Available under license
- 3.188 cxf-rt-bindings-object 2.7.3**
 - 3.188.1 Available under license
- 3.189 cxf-rt-bindings-soap 2.7.3**
 - 3.189.1 Available under license
- 3.190 cxf-rt-bindings-xml 2.7.3**
 - 3.190.1 Available under license
- 3.191 cxf-rt-databinding-aegis 2.7.3**
 - 3.191.1 Available under license
- 3.192 cxf-rt-databinding-jaxb 2.7.3**
 - 3.192.1 Available under license
- 3.193 cxf-rt-databinding-jibx 2.7.3**
 - 3.193.1 Available under license
- 3.194 cxf-rt-databinding-sdo 2.7.3**
 - 3.194.1 Available under license
- 3.195 cxf-rt-databinding-xmlbeans 2.7.3**
 - 3.195.1 Available under license
- 3.196 cxf-rt-features-clustering 2.7.3**
 - 3.196.1 Available under license
- 3.197 cxf-rt-frontend-jaxrs 2.7.3**

- 3.197.1 Available under license
- 3.198 cxf-rt-frontend-jaxws 2.7.3**
 - 3.198.1 Available under license
- 3.199 cxf-rt-frontend-js 2.7.3**
 - 3.199.1 Available under license
- 3.200 cxf-rt-frontend-simple 2.7.3**
 - 3.200.1 Available under license
- 3.201 cxf-rt-javascript 2.7.3**
 - 3.201.1 Available under license
- 3.202 cxf-rt-management 2.7.3**
 - 3.202.1 Available under license
- 3.203 cxf-rt-rs-extension-providers 2.7.3**
 - 3.203.1 Available under license
- 3.204 cxf-rt-rs-extension-search 2.7.3**
 - 3.204.1 Available under license
- 3.205 cxf-rt-rs-security-cors 2.7.3**
 - 3.205.1 Available under license
- 3.206 cxf-rt-rs-security-oauth 2.7.3**
 - 3.206.1 Available under license
- 3.207 cxf-rt-rs-security-oauth2 2.7.3**
 - 3.207.1 Available under license
- 3.208 cxf-rt-rs-security-xml 2.7.3**
 - 3.208.1 Available under license
- 3.209 cxf-rt-security 2.7.3**
 - 3.209.1 Available under license
- 3.210 cxf-rt-transports-http 2.7.3**
 - 3.210.1 Available under license
- 3.211 cxf-rt-transports-http-hc 2.7.3**
 - 3.211.1 Available under license
- 3.212 cxf-rt-transports-http-jetty 2.7.3**
 - 3.212.1 Available under license
- 3.213 cxf-rt-transports-jms 2.7.3**
 - 3.213.1 Available under license
- 3.214 cxf-rt-transports-local 2.7.3**
 - 3.214.1 Available under license
- 3.215 cxf-rt-transports-udp 2.7.3**
 - 3.215.1 Available under license
- 3.216 cxf-rt-ws-addr 2.7.3**
 - 3.216.1 Available under license

3.217 cxf-rt-ws-addr 2.7.3

3.217.1 Available under license

3.218 cxf-rt-ws-mex 2.7.3

3.218.1 Available under license

3.219 cxf-rt-ws-policy 2.7.3

3.219.1 Available under license

3.220 cxf-rt-ws-rm 2.7.3

3.220.1 Available under license

3.221 cxf-rt-ws-security 2.7.3

3.221.1 Available under license

3.222 cxf-tools-common 2.7.3

3.222.1 Available under license

3.223 cxf-tools-corba 2.7.3

3.223.1 Available under license

3.224 cxf-tools-java2ws 2.7.3

3.224.1 Available under license

3.225 cxf-tools-misctools 2.7.3

3.225.1 Available under license

3.226 cxf-tools-validator 2.7.3

3.226.1 Available under license

3.227 cxf-tools-wadlto-jaxrs 2.7.3

3.227.1 Available under license

3.228 cxf-tools-wsdlto 2.7.3

3.228.1 Available under license

3.229 cxf-tools-wsdlto-databinding-jaxb 2.7.3

3.229.1 Available under license

3.230 cxf-tools-wsdlto-frontend-javascript 2.7.3

3.230.1 Available under license

3.231 cxf-tools-wsdlto-frontend-jaxws 2.7.3

3.231.1 Available under license

3.232 cxf-wstx-msv-validation 2.7.3

3.232.1 Available under license

3.233 diffutils 1.2.1

3.233.1 Available under license

3.234 diffutils_package 1.2.1

3.234.1 Available under license

3.235 dom4j 1.6.1

3.235.1 Available under license

3.236 dom4j 1.6.1

- 3.236.1 Available under license
- 3.237 EasyMock 3.2**
 - 3.237.1 Available under license
- 3.238 EasyMock 3.1**
 - 3.238.1 Available under license
- 3.239 ecj 4.5.1**
 - 3.239.1 Available under license
- 3.240 ecj 3.12.3**
 - 3.240.1 Available under license
- 3.241 ehcache 2.6.5**
- 3.242 ehcache 2.10.3**
 - 3.242.1 Available under license
- 3.243 ehcache-rest-agent 2.10.3**
 - 3.243.1 Available under license
- 3.244 ehcache-terracotta 2.6.5**
 - 3.244.1 Available under license
- 3.245 error_prone_annotations 2.1.2**
- 3.246 error_prone_annotations 2.1.2**
- 3.247 ESAPI 2.0GA**
 - 3.247.1 Available under license
- 3.248 Expression Language 2.2 Implementation 2.2.4**
 - 3.248.1 Available under license
- 3.249 Expression Language API 2.2 2.2.4**
 - 3.249.1 Available under license
- 3.250 ezmorph 1.0.6**
- 3.251 fastinfoset 1.2.15**
- 3.252 forms 1.0.7**
- 3.253 Freemarker 2.3.23**
 - 3.253.1 Available under license
- 3.254 geronimo-activation_1.1_spec 1.1**
 - 3.254.1 Available under license
- 3.255 geronimo-activation_1.1_spec 1.0.2**
 - 3.255.1 Available under license
- 3.256 geronimo-j2ee-management_1.1_spec 1.0.1**
 - 3.256.1 Available under license
- 3.257 geronimo-javamail_1.4_spec 1.7.1**
 - 3.257.1 Available under license
- 3.258 geronimo-jaxws_2.2_spec 1.1**
 - 3.258.1 Available under license

- 3.259 geronimo-jms_1.1_spec 1.1.1**
 - 3.259.1 Available under license
- 3.260 geronimo-jpa_2.0_spec 1.1**
 - 3.260.1 Available under license
- 3.261 geronimo-jta_1.1_spec 1.1.1**
 - 3.261.1 Available under license
- 3.262 geronimo-osgi-locator 1.0**
 - 3.262.1 Available under license
- 3.263 geronimo-servlet_3.0_spec 1.0**
 - 3.263.1 Available under license
- 3.264 geronimo-stax-api_1.0_spec 1.0.1**
- 3.265 google-guava 16.0.1**
- 3.266 grpc-context 1.9.0**
- 3.267 grpc-core 1.9.0**
- 3.268 grpc-netty 1.9.0**
- 3.269 grpc-protobuf 1.9.0**
- 3.270 grpc-protobuf-lite 1.9.0**
- 3.271 gson 2.7**
 - 3.271.1 Available under license
- 3.272 gson 2.2.4**
 - 3.272.1 Available under license
- 3.273 Gson 2.2.3**
- 3.274 gson 2.6.2**
- 3.275 guava 18.0**
- 3.276 guava 19.0**
- 3.277 guava 18.0**
- 3.278 guava 25.0**
- 3.279 guava 16.0.1**
- 3.280 gwt-maps 3.8.0**
 - 3.280.1 Available under license
- 3.281 gwt-user 2.6.1**
 - 3.281.1 Available under license
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- 3.313 hk2-api 2.5.0-b05**
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3.347 instrumentation-api 0.4.3
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3.626 netty-buffer 4.1.17
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3.628 netty-codec 4.1.17
3.629 netty-codec 4.1.22
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3.633 netty-codec-http 4.1.17.Final
3.634 netty-codec-http 4.1.17
3.635 netty-codec-http2 4.1.17.Final
3.636 netty-codec-http2 4.1.17
3.637 netty-codec-socks 4.1.22
3.638 netty-codec-socks 4.1.17.Final
3.639 netty-codec-socks 4.1.17
3.640 netty-common 4.1.17.Final
3.641 netty-handler 4.1.17.Final
3.642 netty-handler 4.1.17
3.643 netty-handler 4.1.22
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2.8 commons-httpclient 3.1.0

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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: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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2.9 commons-httpclient 3.0.1

2.10 drools-compiler 6.5.0.FINAL

2.11 drools-core 6.5.0.FINAL

2.12 drools-decisiontables 6.5.0.FINAL

2.13 drools-osgi-integration 6.5.0.FINAL

2.14 drools-reteoo 6.5.0.FINAL

2.15 drools-templates 6.5.0.FINAL

2.16 guice 4.0

2.16.1 Available under license :

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 substring(II)Ljava/lang/String;

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java/util/Set removeAll(Ljava/util/Collection;)Z'(Ljava/lang/String;Ljava/lang/String;)V nextTokenadd

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2.28 POI 3.13

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2.30 postgresql 42.2.5.jre7

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2.31 semargl-core 0.6.1

2.32 semargl-rdf 0.6.1

2.33 semargl-rdfa 0.6.1

2.34 semargl-sesame 0.6.1

2.35 sesame-model 2.7.16

2.36 sesame-rio-api 2.7.16

2.37 sesame-rio-binary 2.7.16

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 */
package org.apache.shiro.authz;

/**
 * A Permission represents the ability to perform an action or access a resource. A Permission is the most
 * granular, or atomic, unit in a system's security policy and is the cornerstone upon which fine-grained security
 * models are built.
 *
 * It is important to understand a Permission instance only represents functionality or access - it does not grant it.
 * Granting access to an application functionality or a particular resource is done by the application's security
 * configuration, typically by assigning Permissions to users, roles and/or groups.
 *
 * Most typical systems are what the Shiro team calls role-based in nature, where a role represents
 * common behavior for certain user types. For example, a system might have an Aministrator role, a
 * User or Guest roles, etc.
 *
 * But if you have a dynamic security model, where roles can be created and deleted at runtime, you can't hard-code
 * role names in your code. In this environment, roles themselves aren't very useful. What matters is what
 * permissions are assigned to these roles.
 *
 * Under this paradigm, permissions are immutable and reflect an application's raw functionality
 * (opening files, accessing a web URL, creating users, etc). This is what allows a system's security policy
 * to be dynamic: because Permissions represent raw functionality and only change when the application's
```

```

* source code changes, they are immutable at runtime - they represent 'what' the system can do. Roles, users, and
* groups are the 'who' of the application. Determining 'who' can do 'what' then becomes a simple exercise of
* associating Permissions to roles, users, and groups in some way.
* <p/>
* Most applications do this by associating a named role with permissions (i.e. a role 'has a' collection of
* Permissions) and then associate users with roles (i.e. a user 'has a' collection of roles) so that by transitive
* association, the user 'has' the permissions in their roles. There are numerous variations on this theme
* (permissions assigned directly to users, or assigned to groups, and users added to groups and these groups in turn
* have roles, etc, etc). When employing a permission-based security model instead of a role-based one, users, roles,
* and groups can all be created, configured and/or deleted at runtime. This enables an extremely powerful security
* model.
* <p/>
* A benefit to Shiro is that, although it assumes most systems are based on these types of static role or
* dynamic role w/ permission schemes, it does not require a system to model their security data this way - all
* Permission checks are relegated to { @link org.apache.shiro.realm.Realm } implementations, and only those
* implementations really determine how a user 'has' a permission or not. The Realm could use the semantics
described
* here, or it could utilize some other mechanism entirely - it is always up to the application developer.
* <p/>
* Shiro provides a very powerful default implementation of this interface in the form of the
* { @link org.apache.shiro.authz.permission.WildcardPermission WildcardPermission }. We highly recommend that
you
* investigate this class before trying to implement your own <code>Permission</code>s.
*
* @see org.apache.shiro.authz.permission.WildcardPermission WildcardPermission
* @since 0.2
*/
public interface Permission {

    /**
     * Returns { @code true } if this current instance <em>implies</em> all the functionality and/or resource access
     * described by the specified { @code Permission } argument, { @code false } otherwise.
     * <p/>
     * <p>That is, this current instance must be exactly equal to or a <em>superset</em> of the functionality
     * and/or resource access described by the given { @code Permission } argument. Yet another way of saying this
     * would be:
     * <p/>
     * <p>If "permission1 implies permission2", i.e. <code>permission1.implies(permission2)</code> ,
     * then any Subject granted { @code permission1 } would have ability greater than or equal to that defined by
     * { @code permission2 }.
     *
     * @param p the permission to check for behavior/functionality comparison.
     * @return { @code true } if this current instance <em>implies</em> all the functionality and/or resource access
     *         described by the specified { @code Permission } argument, { @code false } otherwise.
     */
    boolean implies(Permission p);
}

```

```

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 * KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations
 * under the License.
 */
/**
 * Support and default implementations for Shiro's { @link org.apache.shiro.authz.Permission Permission }
 * interface.
 * <p/>
 * Also note the { @link org.apache.shiro.authz.permission.PermissionResolver PermissionResolver } interface, as
 * it plays an important part in many of Shiro's { @link org.apache.shiro.realm.Realm Realm } implementations
 * and AOP support.
 */
package org.apache.shiro.authz.permission;
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 * specific language governing permissions and limitations
 * under the License.
 */
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

```

```

/**
 * A {@code PermissionResolver} resolves a String value and converts it into a
 * {@link org.apache.shiro.authz.Permission Permission} instance.
 * <p/>
 * The default {@link WildcardPermissionResolver} should be
 * suitable for most purposes, which constructs {@link WildcardPermission} objects.
 * However, any resolver may be configured if an application wishes to use different
 * {@link org.apache.shiro.authz.Permission} implementations.
 * <p/>
 * A {@code PermissionResolver} is used by many Shiro components such as annotations, property file
 * configuration, URL configuration, etc. It is useful whenever a String representation of a permission is specified
 * and that String needs to be converted to a Permission instance before executing a security check.
 * <p/>
 * Shiro chooses to support {@link WildcardPermission WildcardPermission}s by default in almost all components
 * and
 * we do that in the form of the {@link WildcardPermissionResolver WildcardPermissionResolver}. One of the
 * nice
 * things about {@code WildcardPermission}s being supported by default is that it makes it very easy to
 * store complex permissions in the database - and also makes it very easy to represent permissions in JSP files,
 * annotations, etc., where a simple string representation is useful.
 * <p/>
 * Although this happens to be the Shiro default, you are of course free to provide custom
 * String-to-Permission conversion by providing Shiro components any instance of this interface.
 *
 * @see org.apache.shiro.authz.ModularRealmAuthorizer#setPermissionResolver(PermissionResolver)
 * ModularRealmAuthorizer.setPermissionResolver
 * @see org.apache.shiro.realm.AuthorizingRealm#setPermissionResolver(PermissionResolver)
 * AuthorizingRealm.setPermissionResolver
 * @see PermissionResolverAware PermissionResolverAware
 * @since 0.9
 */
public interface PermissionResolver {

    /**
     * Resolves a Permission based on the given String representation.
     *
     * @param permissionString the String representation of a permission.
     * @return A Permission object that can be used internally to determine a subject's permissions.
     * @throws InvalidPermissionStringException
     *         if the permission string is not valid for this resolver.
     */
    Permission resolvePermission(String permissionString);

}
/**
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 */

```
package org.apache.shiro.authz.permission;
```

```
import org.apache.shiro.authz.Permission;
import org.apache.shiro.util.CollectionUtils;
```

```
import java.io.Serializable;
import java.util.ArrayList;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Set;
```

```
/**
```

* A `WildcardPermission` is a very flexible permission construct supporting multiple levels of
 * permission matching. However, most people will probably follow some standard conventions as explained below.

```
* <p/>
```

*

Simple Usage

```
* <p/>
```

* In the simplest form, `WildcardPermission` can be used as a simple permission string. You could
 grant a

* user an "editNewsletter" permission and then check to see if the user has the editNewsletter
 * permission by calling

```
* <p/>
```

```
* <code>subject.isPermitted("editNewsletter")</code>
```

```
* <p/>
```

* This is (mostly) equivalent to

```
* <p/>
```

```
* <code>subject.isPermitted( new WildcardPermission("editNewsletter") )</code>
```

```
* <p/>
```

* but more on that later.

```
* <p/>
```

* The simple permission string may work for simple applications, but it requires you to have permissions like

```
* <code>"viewNewsletter"</code>, <code>"deleteNewsletter"</code>,&br/>
  * <code>"createNewsletter"</code>, etc. You can also grant a user <code>"*"</code> permissions
```

* using the wildcard character (giving this class its name), which means they have `all` permissions. But

* using this approach there's no way to just say a user has "all newsletter permissions".

* `<p/>`

* For this reason, `<code>WildcardPermission</code>` supports multiple `levels` of permissioning.

* `<p/>`

* `<h3>Multiple Levels</h3>`

* `<p/>`

* `WildcardPermission</code>` also supports the concept of multiple `levels`. For example, you could

* restructure the previous simple example by granting a user the permission `<code>"newsletter:edit"</code>`.

* The colon in this example is a special character used by the `<code>WildcardPermission</code>` that delimits the

* next token in the permission.

* `<p/>`

* In this example, the first token is the `domain` that is being operated on

* and the second token is the `action` being performed. Each level can contain multiple values. So you

* could simply grant a user the permission `<code>"newsletter:view,edit,create"</code>` which gives them

* access to perform `<code>view</code>`, `<code>edit</code>`, and `<code>create</code>` actions in the

`<code>newsletter</code>`

* `domain`. Then you could check to see if the user has the `<code>"newsletter:create"</code>`

* permission by calling

* `<p/>`

* `<code>subject.isPermitted("newsletter:create")</code>`

* `<p/>`

* (which would return true).

* `<p/>`

* In addition to granting multiple permissions via a single string, you can grant all permission for a particular

* level. So if you wanted to grant a user all actions in the `<code>newsletter</code>` domain, you could simply give

* them `<code>"newsletter:*"</code>`. Now, any permission check for `<code>"newsletter:XXX"</code>`

* will return `<code>true</code>`. It is also possible to use the wildcard token at the domain level (or both): so you

* could grant a user the `<code>"view"</code>` action across all domains `<code>"*:view"</code>`.

* `<p/>`

* `<h3>Instance-level Access Control</h3>`

* `<p/>`

* Another common usage of the `<code>WildcardPermission</code>` is to model instance-level Access Control

Lists.

* In this scenario you use three tokens - the first is the `domain`, the second is the `action`, and

* the third is the `instance` you are acting on.

* `<p/>`

* So for example you could grant a user `<code>"newsletter:edit:12,13,18"</code>`. In this example, assume

* that the third token is the system's ID of the newsletter. That would allow the user to edit newsletters

* `<code>12</code>`, `<code>13</code>`, and `<code>18</code>`. This is an extremely powerful way to express

permissions,

* since you can now say things like `<code>"newsletter*:13"</code>` (grant a user all actions for newsletter

* `<code>13</code>`), `<code>"newsletter:view,create,edit:*"</code>` (allow the user to

* `<code>view</code>`, `<code>create</code>`, or `<code>edit</code>` `any` newsletter), or

* `<code>"newsletter:*:*"</code>` (allow the user to perform `any` action on `any` newsletter).

* `<p/>`

* To perform checks against these instance-level permissions, the application should include the instance ID in the

* permission check like so:


```
* <p/>
* <code>subject.isPermitted( "newsletter:edit:13" )</code>
* <p/>
* There is no limit to the number of tokens that can be used, so it is up to your imagination in terms of ways that
* this could be used in your application. However, the Shiro team likes to standardize some common usages shown
* above to help people get started and provide consistency in the Shiro community.
```

```
*
* @since 0.9
*/
```

```
public class WildcardPermission implements Permission, Serializable {
```

```
    //TODO - JavaDoc methods
```

```
    /*-----
```

```
    |   C O N S T A N T S   |
```

```
    =====*/
```

```
protected static final String WILDCARD_TOKEN = "*";
protected static final String PART_DIVIDER_TOKEN = ":";
protected static final String SUBPART_DIVIDER_TOKEN = ",";
protected static final boolean DEFAULT_CASE_SENSITIVE = false;
```

```
    /*-----
```

```
    | I N S T A N C E   V A R I A B L E S   |
```

```
    =====*/
```

```
private List<Set<String>> parts;
```

```
    /*-----
```

```
    |   C O N S T R U C T O R S   |
```

```
    =====*/
```

```
/**
```

```
 * Default no-arg constructor for subclasses only - end-user developers instantiating Permission instances must
 * provide a wildcard string at a minimum, since Permission instances are immutable once instantiated.
```

```
 * <p/>
```

```
 * Note that the WildcardPermission class is very robust and typically subclasses are not necessary unless you
 * wish to create type-safe Permission objects that would be used in your application, such as perhaps a
 * {@code UserPermission}, {@code SystemPermission}, {@code PrinterPermission}, etc. If you want such
 type-safe
```

```
 * permission usage, consider subclassing the {@link DomainPermission DomainPermission} class for your
 needs.
```

```
 */
```

```
protected WildcardPermission() {
}
```

```
public WildcardPermission(String wildcardString) {
    this(wildcardString, DEFAULT_CASE_SENSITIVE);
}
```

```
public WildcardPermission(String wildcardString, boolean caseSensitive) {
```

```

    setParts(wildcardString, caseSensitive);
}

protected void setParts(String wildcardString) {
    setParts(wildcardString, DEFAULT_CASE_SENSITIVE);
}

protected void setParts(String wildcardString, boolean caseSensitive) {
    if (wildcardString == null || wildcardString.trim().length() == 0) {
        throw new IllegalArgumentException("Wildcard string cannot be null or empty. Make sure permission
strings are properly formatted.");
    }

    wildcardString = wildcardString.trim();

    List<String> parts = CollectionUtils.asList(wildcardString.split(PART_DIVIDER_TOKEN));

    this.parts = new ArrayList<Set<String>>();
    for (String part : parts) {
        Set<String> subparts = CollectionUtils.asSet(part.split(SUBPART_DIVIDER_TOKEN));
        if (!caseSensitive) {
            subparts = lowercase(subparts);
        }
        if (subparts.isEmpty()) {
            throw new IllegalArgumentException("Wildcard string cannot contain parts with only dividers. Make sure
permission strings are properly formatted.");
        }
        this.parts.add(subparts);
    }

    if (this.parts.isEmpty()) {
        throw new IllegalArgumentException("Wildcard string cannot contain only dividers. Make sure permission
strings are properly formatted.");
    }
}

private Set<String> lowercase(Set<String> subparts) {
    Set<String> lowerCasedSubparts = new LinkedHashSet<String>(subparts.size());
    for (String subpart : subparts) {
        lowerCasedSubparts.add(subpart.toLowerCase());
    }
    return lowerCasedSubparts;
}

/*-----
| ACCESSORS / MODIFIERS |
=====*/
protected List<Set<String>> getParts() {

```

```

    return this.parts;
}

/*-----
|           M E T H O D S           |
=====*/

public boolean implies(Permission p) {
    // By default only supports comparisons with other WildcardPermissions
    if (!(p instanceof WildcardPermission)) {
        return false;
    }

    WildcardPermission wp = (WildcardPermission) p;

    List<Set<String>> otherParts = wp.getParts();

    int i = 0;
    for (Set<String> otherPart : otherParts) {
        // If this permission has less parts than the other permission, everything after the number of parts contained
        // in this permission is automatically implied, so return true
        if (getParts().size() - 1 < i) {
            return true;
        } else {
            Set<String> part = getParts().get(i);
            if (!part.contains(WILDCARD_TOKEN) && !part.containsAll(otherPart)) {
                return false;
            }
            i++;
        }
    }

    // If this permission has more parts than the other parts, only imply it if all of the other parts are wildcards
    for (; i < getParts().size(); i++) {
        Set<String> part = getParts().get(i);
        if (!part.contains(WILDCARD_TOKEN)) {
            return false;
        }
    }

    return true;
}

public String toString() {
    StringBuilder buffer = new StringBuilder();
    for (Set<String> part : parts) {
        if (buffer.length() > 0) {
            buffer.append(":");
        }
    }
}

```

```

    }
    buffer.append(part);
}
return buffer.toString();
}

public boolean equals(Object o) {
    if (o instanceof WildcardPermission) {
        WildcardPermission wp = (WildcardPermission) o;
        return parts.equals(wp.parts);
    }
    return false;
}

public int hashCode() {
    return parts.hashCode();
}

}
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*/
package org.apache.shiro.authz.permission;

/**
* Interface implemented by a component that wishes to use any application-configured
<tt>RolePermissionResolver</tt> that
* might already exist instead of potentially creating one itself.
*
* <p>This is mostly implemented by { @link org.apache.shiro.authz.Authorizer Authorizer} and
* { @link org.apache.shiro.realm.Realm Realm} implementations since they
* are the ones performing permission checks and need to know how to resolve Strings into
* { @link org.apache.shiro.authz.Permission Permission} instances.

```

```

*
* @since 1.0
*/
public interface RolePermissionResolverAware {

    /**
     * Sets the specified <tt>RolePermissionResolver</tt> on this instance.
     *
     * @param rpr the <tt>RolePermissionResolver</tt> being set.
     */
    public void setRolePermissionResolver(RolePermissionResolver rpr);
}
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*/
package org.apache.shiro.authz.permission;

import java.io.Serializable;

import org.apache.shiro.authz.Permission;

/**
 * An all <tt>AllPermission</tt> instance is one that always implies any other permission; that is, its
 * { @link #implies implies } method always returns <tt>>true</tt>.
 *
 * <p>You should be very careful about the users, roles, and/or groups to which this permission is assigned since
 * those respective entities will have the ability to do anything. As such, an instance of this class
 * is typically only assigned only to "root" or "administrator" users or roles.
 *
 * @since 0.1
 */
public class AllPermission implements Permission, Serializable {

```

```

/**
 * Always returns <tt>true</tt>, indicating any Subject granted this permission can do anything.
 *
 * @param p the Permission to check for implies logic.
 * @return <tt>true</tt> always, indicating any Subject granted this permission can do anything.
 */
public boolean implies(Permission p) {
    return true;
}
}
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 */
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

/**
 * <tt>PermissionResolver</tt> implementation that returns a new { @link WildcardPermission
 * WildcardPermission}
 * based on the input string.
 *
 * @since 0.9
 */
public class WildcardPermissionResolver implements PermissionResolver {

    /**
     * Returns a new { @link WildcardPermission WildcardPermission} instance constructed based on the specified
     * <tt>permissionString</tt>.
     *
     * @param permissionString the permission string to convert to a { @link Permission Permission} instance.

```

```

    * @return a new {@link WildcardPermission WildcardPermission} instance constructed based on the specified
    *     <tt>permissionString</tt>
    */
    public Permission resolvePermission(String permissionString) {
        return new WildcardPermission(permissionString);
    }
}
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 */
package org.apache.shiro.authz.permission;

import org.apache.shiro.ShiroException;

/**
 * Thrown by {@link PermissionResolver#resolvePermission(String)} when the String being parsed is not
 * valid for that resolver.
 *
 * @since 0.9
 */
public class InvalidPermissionStringException extends ShiroException
{
    private String permissionString;

    /**
     * Constructs a new exception with the given message and permission string.
     *
     * @param message     the exception message.
     * @param permissionString the invalid permission string.
     */
    public InvalidPermissionStringException(String message, String permissionString) {

```

```

        super(message);
        this.permissionString = permissionString;
    }

    /**
     * Returns the permission string that was invalid and caused this exception to
     * be thrown.
     *
     * @return the permission string.
     */
    public String getPermissionString() {
        return this.permissionString;
    }
}

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 */
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

import java.util.Collection;

    /**
     * A RolePermissionResolver resolves a String value and converts it into a Collection of
     * {@link org.apache.shiro.authz.Permission} instances.
     *
     * <p/>
     * In some cases a {@link org.apache.shiro.realm.Realm} may only be able to return a list of roles. This
     * component allows an application to resolve the roles into permissions.
     *
     */

```



```

public interface RolePermissionResolver {

    /**
     * Resolves a Collection of Permissions based on the given String representation.
     *
     * @param roleString the String representation of a role name to resolve.
     * @return a Collection of Permissions based on the given String representation.
     */
    Collection<Permission> resolvePermissionsInRole(String roleString);

}

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 */
package org.apache.shiro.authz.permission;

/**
 * Interface implemented by a component that wishes to use any application-configured <tt>PermissionResolver</tt>
 * that
 * might already exist instead of potentially creating one itself.
 *
 * <p>This is mostly implemented by { @link org.apache.shiro.authz.Authorizer Authorizer} and
 * { @link org.apache.shiro.realm.Realm Realm} implementations since they
 * are the ones performing permission checks and need to know how to resolve Strings into
 * { @link org.apache.shiro.authz.Permission Permission} instances.
 *
 * @since 0.9
 */
public interface PermissionResolverAware {

    /**
     * Sets the specified <tt>PermissionResolver</tt> on this instance.
     *

```

```
* @param pr the <tt>PermissionResolver</tt> being set.  
*/  
public void setPermissionResolver(PermissionResolver pr);  
}
```

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2.51 spring-security-web 3.2.4.RELEASE

2.52 swrlapi 1.1.4

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2.53 SWRLAPI Drools Engine 1.1.4

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2.54 trove4j 3.0.3

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2.55 xalan 2.7.2

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3.4 activation 1.0.2

3.5 activemq-core 5.5.1

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3.6 activemq-pool 5.7.0

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3.7 activemq-protobuf 1.1

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3.8 aether-api 1.12

3.9 aether-util 1.12

3.10 aether-util 0.9.0.M2

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*  
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```

```

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*****/
package org.eclipse.aether.util.repository;

import org.eclipse.aether.RepositorySystemSession;
import org.eclipse.aether.resolution.ArtifactDescriptorPolicy;
import org.eclipse.aether.resolution.ArtifactDescriptorPolicyRequest;

/**
 * An artifact descriptor error policy that allows to control error handling at a global level.
 */
public final class SimpleArtifactDescriptorPolicy
    implements ArtifactDescriptorPolicy
{

    private final int policy;

    /**
     * Creates a new error policy with the specified behavior.
     *
     * @param ignoreMissing {@code true} to ignore missing descriptors, {@code false} to fail resolution.
     * @param ignoreInvalid {@code true} to ignore invalid descriptors, {@code false} to fail resolution.
     */
    public SimpleArtifactDescriptorPolicy( boolean ignoreMissing, boolean ignoreInvalid )
    {
        this( ( ignoreMissing ? IGNORE_MISSING : 0 ) | ( ignoreInvalid ? IGNORE_INVALID : 0 ) );
    }

    /**
     * Creates a new error policy with the specified bit mask.
     *
     * @param policy The bit mask describing the policy.
     */
    public SimpleArtifactDescriptorPolicy( int policy )
    {
        this.policy = policy;
    }

    public int getPolicy( RepositorySystemSession session, ArtifactDescriptorPolicyRequest request )
    {
        return policy;
    }

}
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*

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*****/

```
package org.eclipse.aether.util.repository;
```

```
import org.eclipse.aether.RepositorySystemSession;
```

```
import org.eclipse.aether.artifact.Artifact;
```

```
import org.eclipse.aether.metadata.Metadata;
```

```
import org.eclipse.aether.resolution.ResolutionErrorPolicy;
```

```
import org.eclipse.aether.resolution.ResolutionErrorPolicyRequest;
```

```
/**
```

```
* A resolution error policy that allows to control caching for artifacts and metadata at a global level.
```

```
*/
```

```
public final class SimpleResolutionErrorPolicy
```

```
    implements ResolutionErrorPolicy
```

```
{
```

```
    private final int artifactPolicy;
```

```
    private final int metadataPolicy;
```

```
/**
```

```
* Creates a new error policy with the specified behavior for both artifacts and metadata.
```

```
*
```

```
* @param cacheNotFound { @code true } to enable caching of missing items, { @code false } to disable it.
```

```
* @param cacheTransferErrors { @code true } to enable chaching of transfer errors, { @code false } to disable it.
```

```
*/
```

```
public SimpleResolutionErrorPolicy( boolean cacheNotFound, boolean cacheTransferErrors )
```

```
{
```

```
    this( ( cacheNotFound ? CACHE_NOT_FOUND : 0 ) | ( cacheTransferErrors ? CACHE_TRANSFER_ERROR : 0 ) );
```

```
}
```

```
/**
```

```
* Creates a new error policy with the specified bit mask for both artifacts and metadata.
```

```
*
```

```
* @param policy The bit mask describing the policy for artifacts and metadata.
```

```
*/
```

```
public SimpleResolutionErrorPolicy( int policy )
```

```
{
```

```
    this( policy, policy );
```

```
}
```

```

/**
 * Creates a new error policy with the specified bit masks for artifacts and metadata.
 *
 * @param artifactPolicy The bit mask describing the policy for artifacts.
 * @param metadataPolicy The bit mask describing the policy for metadata.
 */
public SimpleResolutionErrorPolicy( int artifactPolicy, int metadataPolicy )
{
    this.artifactPolicy = artifactPolicy;
    this.metadataPolicy = metadataPolicy;
}

public int getArtifactPolicy( RepositorySystemSession session, ResolutionErrorPolicyRequest<Artifact> request )
{
    return artifactPolicy;
}

public int getMetadataPolicy( RepositorySystemSession session, ResolutionErrorPolicyRequest<Metadata>
request )
{
    return metadataPolicy;
}
}

```

3.11 amqp-client 3.1.3

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```

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3.12 amqp-client 3.6.2

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3.13 animal-sniffer-annotations 1.14

3.14 animal-sniffer-annotations 1.14

3.15 annotations 2.0.1

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Lists of 19 third-party dependencies.

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(BSD License) XMLUnit for Java (xmlunit:xmlunit:1.4 - <http://xmlunit.sourceforge.net/>)

3.16 ant 1.7.1

3.17 ant 1.6.5

3.18 ant-launcher 1.7.0

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3.37 aporeo-cas 3.5.2

3.38 asm 5.0.4

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3.41 asm 2.2.0

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```

```
*/
```

```
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```

```
/**
```

```

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* called in the following order: (<tt>visit<tt> | <tt>visitEnum<tt> |
* <tt>visitAnnotation<tt> | <tt>visitArray<tt>)* <tt>visitEnd<tt>.

```

```
*
```

```
* @author Eric Bruneton
```

```
* @author Eugene Kuleshov
```

```
*/
```

```
public interface AnnotationVisitor {
```

```
    /**
```

```

    * Visits a primitive value of the annotation.
    
```

```
    *
```

```
    * @param name the value name.
```

```
    * @param value the actual value, whose type must be { @link Byte},
```

```
    * { @link Boolean}, { @link Character}, { @link Short},
```

```
    * { @link Integer}, { @link Long}, { @link Float}, { @link Double},
```

```
    * { @link String} or { @link Type}. This value can also be an array
```

```
    * of byte, boolean, short, char, int, long, float or double values
```

```
    * (this is equivalent to using { @link #visitArray visitArray} and
```

```
    * visiting each array element in turn, but is more convenient).
```

```
    */
```

```

void visit(String name, Object value);

/**
 * Visits an enumeration value of the annotation.
 *
 * @param name the value name.
 * @param desc the class descriptor of the enumeration class.
 * @param value the actual enumeration value.
 */
void visitEnum(String name, String desc, String value);

/**
 * Visits a nested annotation value of the annotation.
 *
 * @param name the value name.
 * @param desc the class descriptor of the nested annotation class.
 * @return a visitor to visit the actual nested annotation value, or
 *         <tt>null</tt> if this visitor is not interested in visiting
 *         this nested annotation. <i>The nested annotation value must be
 *         fully visited before calling other methods on this annotation
 *         visitor</i>.
 */
AnnotationVisitor visitAnnotation(String name, String desc);

/**
 * Visits an array value of the annotation. Note that arrays of primitive
 * types (such as byte, boolean, short, char, int, long, float or double)
 * can be passed as value to { @link #visit visit }. This is what
 * { @link ClassReader } does.
 *
 * @param name the value name.
 * @return a visitor to visit the actual array value elements, or
 *         <tt>null</tt> if this visitor is not interested in visiting
 *         these values. The 'name' parameters passed to the methods of this
 *         visitor are ignored. <i>All the array values must be visited
 *         before calling other methods on this annotation visitor</i>.
 */
AnnotationVisitor visitArray(String name);

/**
 * Visits the end of the annotation.
 */
void visitEnd();
}

```

3.47 asm-repackaged 2.5.0

3.48 asm-tree 4.0

3.49 asm-util 4.0

3.50 aspectj 1.9.2

3.51 aspectj 1.9.2

3.51.1 Available under license :

```
4I()I)Z(II)V<init>IZaccept0acceptChildrendeleteChildrendoCopydocumentfDeltafTextget getLength
getOffsetlengthoffset+org/eclipse/jface/text/BadLocationException
org/eclipse/jface/text/IDocument)org/eclipse/text/edits/CopyingRangeMarkerorg/eclipse/text/edits/TextEdit&org/ecl
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visitChildrenvisitorLjava/lang/String;"Lorg/eclipse/jface/text/IDocument;+Lorg/eclipse/text/edits/CopyingRangeMa
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pse/text/edits/CopyingRangeMarker;)V.(Lorg/eclipse/text/edits/CopyingRangeMarker;)Z#(Lorg/eclipse/text/edits/
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,F% %
+B3 Y*<E3F %-Bf+* @=*+=HE;<
=?F %&
(BX*+*;*:A9*8*8EFGHF%$D B,EPF%GC
```

```
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3.52 aspectj-tools 1.9.2

3.52.1 Available under license :

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```

```
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```

```
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* @author <A HREF="mailto:markus.dahm@berlin.de">M. Dahm</A>

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3.54 avalon-framework 4.1.2

3.55 avro 1.7.6

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3.60 batik-css 1.7+r608262

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3.67 bcel 5.1.0

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  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
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resources and open source code" />
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<div id="title">
<h1>The Legion of the Bouncy Castle</h1>
</div>
</div>

<div id="container">

<div id="content">

<div id="navigation">
<ul>
<li><a href="index.html" class="nav">entry</a></li>
<li><a href="wiki" class="nav">wiki</a></li>
<li><a href="jira" class="nav">issue tracker</a></li>
<li><a href="https://www.bouncycastle.org/donate/index.cgi" class="nav">donate</a></li>
<li><a href="mailing_lists.html" class="nav">mailing lists</a></li>
<li><a href="latest_releases.html" class="nav">latest releases</a></li>
<li><a href="documentation.html" class="nav">documentation</a></li>
<li><a href="resources.html" class="nav">resources</a></li>
<li><a href="mirrors.html" class="nav">mirroring</a></li>
<li><div style="color:#0000FF;font-weight:bold;">legal and licencing</div></li>
<li><a href="contributors.html" class="nav">contributors</a></li>
<li><a href="csharp" class="nav">c#</a></li>
</ul>
<div class="clearing">&nbsp;</div>
```

</div>

<div id="body">

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3.72 bcprov-jdk15on 1.54

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3.73 Bean Validation API 1.1.0.Final

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3.83 c3p0:JDBC DataSources/Resource Pools

0.9.1.1

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3.84 cas-addons 1.12

3.85 cas-client-core 3.2.1

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3.86 cas-client-core 3.2.1

3.87 cas-server 3.5.2

3.88 cas-server-core 3.5.2.1

3.89 cas-server-core 3.5.2

3.90 cas-server-integration-restlet 3.5.2

3.91 cas-server-support-generic 3.5.2.1

3.92 cas-server-support-ldap 3.5.2.1

3.93 cassandra-driver-core 3.0.2

3.94 cassandra-driver-core 2.1.0

3.95 cassandra-driver-core 3.0.2

3.96 cassandra-driver-mapping 2.1.0

3.97 Castor 1.3.1

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3.100 cglib 3.0

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ASM: a very small and fast Java bytecode manipulation framework

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ASM: a very small and fast Java bytecode manipulation framework

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3.127 commons-codec 1.2

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3.130 commons-collections 3.2.2

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<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
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<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">
```

```

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
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```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

  <div class="container">

```

```

    <div class="navbar-header">

```

```

      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

        <span class="sr-only">Toggle navigation</span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

      </button>

```

```

      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

```

```

    </div>

```

```

    <div class="collapse navbar-collapse" id="mainnav-collapse">

```

```

      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&lt;a
href="/licenses/">Licenses</a></div>

```

```

      <ul class="nav navbar-nav navbar-right">

```

```

        <li class="dropdown">

```

```

          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

```

```

          <ul class="dropdown-menu" role="menu">

```

```

            <li><a href="/foundation">Overview</a></li>

```

```

            <li><a href="/foundation/members.html">Members</a></li>

```

```

            <li><a href="/foundation/how-it-works.html">Process</a></li>

```

```

            <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>

```

```

            <li><a href="/foundation/glossary.html">Glossary</a></li>

```

```

            <li><a href="/foundation/preFAQ.html">FAQ</a></li>

```

```

            <li><a href="/foundation/contact.html ">Contact</a></li>

```

```

          </ul>

```



```

    </li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
    </ul>
</li>
<li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
<li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
<li><a href="http://www.apachecon.com/">ApacheCon</a></li>
    </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
    <div class="col-md-6 col-sm-5 col-xs-12">
    
</div>
<div class="col-md-3 col-sm-3 col-xs-6">
<a href="http://apache.org/foundation/contributing.html" title="Support Apache">
    

```

```

</a>
</div>
<div class="col-md-3 col-sm-4 col-xs-6">
  <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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</pre></div></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

Overview

Conferences

Summer of Code

Getting Started

The Apache Way

Travel Assistance

Get Involved

Community FAQ

Memorials

</div>

<div class="col-sm-2">

```
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
```

```

</div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2017 The Apache Software Foundation, Licensed under the <a
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Foundation.</p>
  </div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>

```

3.131 commons-collections 3.2.1

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3.136 commons-collections4 4.1

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3.165 commons-logging 1.0.3

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    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>
</thirdparty-licenses>
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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

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[2] <http://www.ecma-international.org/memento/Ecmabylaws.htm>

[3] <http://www.microsoft.com/interop/osp/>

[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ECMA-376%20Edition%201%20Microsoft%20Patent%20Declaration.pdf>

[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ga-2006-191.pdf>

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JUnit test library (junit-3.8.1.jar)

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3.174 commons-pool 1.5.3

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3.182 config 1.0.2

3.183 config-types 2.5.0

3.184 cxf-api 2.7.3

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3.194 cxf-rt-databinding-sdo 2.7.3

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3.198 cxf-rt-frontend-jaxws 2.7.3

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3.199 cxf-rt-frontend-js 2.7.3

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```

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
import java.io.InputStream;
```

```
/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
```

```
public interface CopyingOutputStream {
```

```
    int copyFrom(InputStream in) throws IOException;
```

```
}
```

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3.204 cxf-rt-rs-extension-search 2.7.3

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3.205 cxf-rt-rs-security-cors 2.7.3

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 */
package org.apache.cxf.rs.security.oauth.data;

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }
}
```

```

}

public String getDescription() {
    return description;
}

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

public String getPermission() {
    return permission;
}

public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}

```

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3.207 cxf-rt-rs-security-oauth2 2.7.3

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 */
package org.apache.cxf.rs.security.oauth2.common;
```

```
/**
 * Base permission description
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }
}
```

```
/**
 * Gets the permission description
 * @return the description
 */
public String getDescription() {
```

```

    return description;
}

/**
 * Sets the permission description
 * @param description
 */
public void setDescription(String description) {
    this.description = description;
}

/**
 * Get the permission value such as "read_calendar"
 * @return the value
 */
public String getPermission() {
    return permission;
}

/**
 * Sets the permission value such as "read_calendar"
 * @param permission the permission value
 */
public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates if this permission has been allocated by default or not.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only.
 * For example, the read-only check-box controls can be used to represent
 * the default scopes
 * @param isDefault true if the permission has been allocated by default
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}

```

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3.217 cxf-rt-ws-addr 2.7.3

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3.219 cxf-rt-ws-policy 2.7.3

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3.221 cxf-rt-ws-security 2.7.3

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3.239 ecj 4.5.1

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3.241 ehcache 2.6.5

3.242 ehcache 2.10.3

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 */
package net.sf.ehcache.store;

import net.sf.ehcache.Element;
import net.sf.ehcache.config.CacheConfiguration;
import net.sf.ehcache.store.compound.ReadWriteCopyStrategy;

/**
 * Copies elements, either on read, write or both before using the underlying store to actually store things
 * When copying both ways, the store might not see the same types being stored
 * @param <T> the store type it wraps
 *
 * @author Alex Snaps
 */
public final class CopyingCacheStore<T extends Store> extends AbstractCopyingCacheStore<T> {

    /**
     * Creates a copying instance of store, that wraps the actual storage
     *
     * @param store the real store
     * @param copyOnRead whether to copy on reads
     * @param copyOnWrite whether to copy on writes
     * @param copyStrategyInstance the copy strategy to use on every copy operation
     * @param loader classloader of the containing cache
     */
    public CopyingCacheStore(T store, boolean copyOnRead, boolean copyOnWrite,
        ReadWriteCopyStrategy<Element> copyStrategyInstance, ClassLoader loader) {
        super(store, copyOnRead, copyOnWrite, copyStrategyInstance, loader);
    }

    /**
     * Wraps the Store instance passed in, should any copy occur
     */
}
```



```

* @param cacheStore the store
* @param cacheConfiguration the cache config for that store
* @return the wrapped Store if copying is required, or the Store instance passed in
*/
public static Store wrapIfCopy(final Store cacheStore, final CacheConfiguration cacheConfiguration) {
    if (requiresCopy(cacheConfiguration)) {
        return wrap(cacheStore, cacheConfiguration);
    }
    return cacheStore;
}

/**
* Wraps (always) with the proper configured CopyingCacheStore
* @param cacheStore the store to wrap
* @param cacheConfiguration the cache config backed by this store
* @param <T> the Store type
* @return the wrapped store
*/
private static <T extends Store> CopyingCacheStore<T> wrap(final T cacheStore, final CacheConfiguration
cacheConfiguration) {
    final ReadWriteCopyStrategy<Element> copyStrategyInstance =
cacheConfiguration.getCopyStrategyConfiguration()
        .getCopyStrategyInstance(cacheConfiguration.getClassLoader());
    return new CopyingCacheStore<T>(cacheStore, cacheConfiguration.isCopyOnRead(),
cacheConfiguration.isCopyOnWrite(), copyStrategyInstance, cacheConfiguration.getClassLoader());
}

/**
* Checks whether configuration enables copying
*
* @param cacheConfiguration the cache config
* @return true is copying is required, otherwise false
*/
static boolean requiresCopy(final CacheConfiguration cacheConfiguration) {
    return cacheConfiguration.isCopyOnRead() || cacheConfiguration.isCopyOnWrite();
}

private static boolean isCopyOnReadAndCopyOnWrite(final CacheConfiguration cacheConfiguration) {
    return cacheConfiguration.isCopyOnRead() && cacheConfiguration.isCopyOnWrite();
}

/**
* Wraps the given { @link net.sf.ehcache.store.ElementValueComparator } if the configuration requires copy on
read
*
* @param comparator the comparator to wrap
* @param cacheConfiguration the cache configuration
* @return the comparator passed if no copy needed, a wrapped comparator otherwise

```

```

    */
    public static ElementValueComparator wrapIfCopy(final ElementValueComparator comparator, final
CacheConfiguration cacheConfiguration) {
        if (isCopyOnReadAndCopyOnWrite(cacheConfiguration)) {
            final ReadWriteCopyStrategy<Element> copyStrategyInstance =
cacheConfiguration.getCopyStrategyConfiguration()
                .getCopyStrategyInstance(cacheConfiguration.getClassLoader());
            CopyStrategyHandler copyStrategyHandler = new
CopyStrategyHandler(cacheConfiguration.isCopyOnRead(),
                cacheConfiguration.isCopyOnWrite(),
                copyStrategyInstance, cacheConfiguration.getClassLoader());
            return new CopyingElementValueComparator(comparator, copyStrategyHandler);
        }
        return comparator;
    }
}

/**
 * An { @link net.sf.ehcache.store.ElementValueComparator } which handles copy on read
 */
private static class CopyingElementValueComparator implements ElementValueComparator {

    private final ElementValueComparator delegate;
    private final CopyStrategyHandler copyStrategyHandler;

    public CopyingElementValueComparator(ElementValueComparator delegate, CopyStrategyHandler
copyStrategyHandler) {
        this.delegate = delegate;
        this.copyStrategyHandler = copyStrategyHandler;
    }

    @Override
    public boolean equals(Element e1, Element e2) {
        return delegate.equals(copyStrategyHandler.copyElementForReadIfNeeded(e1),
copyStrategyHandler.copyElementForReadIfNeeded(e2));
    }
}
}

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*/
```

```
package net.sf.ehcache.store;
```

```
import net.sf.ehcache.Element;  
import net.sf.ehcache.config.Searchable;
```

```
import java.util.Iterator;
```

```
/**
```

```
* A {@link BruteForceSource} that wraps another one and deals with copy for read of {@link Element}s.  
*
```

```
* @author ljacomet
```

```
*/
```

```
class CopyingBruteForceSource implements BruteForceSource {
```

```
    private final BruteForceSource delegate;  
    private final CopyStrategyHandler copyStrategyHandler;
```

```
    /**
```

```
     * Construct this CopyingBruteForceSource with the given delegate and the {@link CopyStrategyHandler} to use.  
     *
```

```
     * @param delegate the delegate BruteForceSource
```

```
     * @param copyStrategyHandler the copy strategy handler
```

```
     */
```

```
    CopyingBruteForceSource(BruteForceSource delegate, CopyStrategyHandler copyStrategyHandler) {  
        this.delegate = delegate;  
        this.copyStrategyHandler = copyStrategyHandler;  
    }
```

```
    @Override
```

```
    public Iterable<Element> elements() {  
        return new CopyingIterable(delegate.elements(), copyStrategyHandler);  
    }
```

```
    @Override
```

```
    public Searchable getSearchable() {  
        return delegate.getSearchable();  
    }
```

```
    @Override
```

```
    public Element transformForIndexing(Element element) {  
        return copyStrategyHandler.copyElementForReadIfNeeded(element);  
    }
```

```

/**
 * Wrapping Iterable holding the delegate Iterable and the {@link CopyStrategyHandler}
 */
private static class CopyingIterable implements Iterable<Element> {
    private final Iterable<Element> elements;
    private final CopyStrategyHandler copyStrategyHandler;

    public CopyingIterable(Iterable<Element> elements, CopyStrategyHandler copyStrategyHandler) {
        this.elements = elements;
        this.copyStrategyHandler = copyStrategyHandler;
    }

    @Override
    public Iterator<Element> iterator() {
        return new CopyingIterator(elements.iterator());
    }

/**
 * Wrapping Iterator responsible of doing the copy on read
 */
private class CopyingIterator implements Iterator<Element> {
    private final Iterator<Element> delegate;

    public CopyingIterator(Iterator<Element> delegate) {
        this.delegate = delegate;
    }

    @Override
    public boolean hasNext() {
        return delegate.hasNext();
    }

    @Override
    public Element next() {
        return copyStrategyHandler.copyElementForReadIfNeeded(delegate.next());
    }

    @Override
    public void remove() {
        delegate.remove();
    }
}
}
}

```

3.243 ehcache-rest-agent 2.10.3

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3.244 ehcache-terracotta 2.6.5

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3.245 error_prone_annotations 2.1.2

3.246 error_prone_annotations 2.1.2

3.247 ESAPI 2.0GA

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```
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<html>
<head>
</head>
```

```
<body bgcolor="white">
```

The ESAPI interfaces and { @code Exception } classes model the most important security functions to enterprise web applications.

The interfaces in this package are intended to be extended and customized within an enterprise to match their custom data, security services, and application environment. A reference implementation of this interface is provided as an example of how this library can be implemented successfully, but is useful in many ways by itself as well.

```
<p>
```

OWASP ESAPI interfaces and reference implementation provides enterprise web application developers with the most important security functions they need in order to build secure web applications and web services that stand up to most common-day web-based attacks.

```
</p>
```

```
<h2>Sponsor</h2>
```

```
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```

```
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```

```
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```

is led by Jeff Williams,

[Aspect Security](http://www.aspectsecurity.com).

You can find more information about the ESAPI Java project, or join the mailing list and help us make it better from the OWASP project page at http://www.owasp.org/index.php/ESAPI#tab=Java_EE.

http://www.owasp.org/index.php/ESAPI#tab=Java_EE.

ESAPI Architecture

The ESAPI class library builds on the excellent security libraries available, such as Java Logging, JCE, and Adobe Commons FileUpload. It uses the concepts from many of the security packages out there, such as ACEGI, Apache Commons Validator, Microsoft's AntiXSS library, and many many more. This library provides a single consistent interface to security functions that is intuitive for enterprise developers.



Addressing OWASP Top Ten

Used properly, the ESAPI provides enough functions to protect against most of the

http://www.owasp.org/index.php/Category:OWASP_Top_Ten_Project OWASP Top Ten. The only real exception is the Insecure Communications category, which is generally outside the control of the software developer.



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References

This library builds on some of the ideas found in:

- [OWASP](http://www.owasp.org/)

- [Microsoft's AntiXSS](http://www.microsoft.com/downloads/details.aspx?FamilyId=051ee83c-5ccf-48ed-8463-02f56a6bfc09&displaylang=en)

- [Java JCE](http://java.sun.com/j2se/1.5.0/docs/guide/security/jce/JCERefGuide.html)

- [Java Logging API](http://java.sun.com/j2se/1.5.0/docs/guide/logging/overview.html)

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*

* @author Robert Harder

* @author rob@iharder.net

* @version 2.2.2

*/

3.248 Expression Language 2.2

Implementation 2.2.4

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 */
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3.251 fastinfoset 1.2.15

3.252 forms 1.0.7

3.253 Freemarker 2.3.23

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3.254 geronimo-activation_1.1_spec 1.1

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3.256 geronimo-j2ee-management_1.1_spec

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3.265 google-guava 16.0.1

3.266 grpc-context 1.9.0

3.267 grpc-core 1.9.0

3.268 grpc-netty 1.9.0

3.269 grpc-protobuf 1.9.0

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3.272 gson 2.2.4

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3.273 Gson 2.2.3

3.274 gson 2.6.2

3.275 guava 18.0

3.276 guava 19.0

3.277 guava 18.0

3.278 guava 25.0

3.279 guava 16.0.1

3.280 gwt-maps 3.8.0

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3.281 gwt-user 2.6.1

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 /*
 * This class implements the Message Digest 5 algorithm (MD5) as defined in
 * RFC-1321.
 *
 * <p>Note: even if standard Java 1.1 APIs already provide a MD5
 * implementation, this class is used on those Java runtime environments (like
 * Kaffe) where the package <code>java.security</code> is highly improbable to
 * be found.
 *
 * author Stefano Mazzocchi
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3.287 hawtdispatch 1.11

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3.288 hawtdispatch-transport 1.11

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3.289 hazelcast 3.8.9

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 */
```

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

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

```

import com.hazelcast.topic.impl.TopicService;

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

public final class ActionConstants {

    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";
    public static final String ACTION_DESTROY = "destroy";
    public static final String ACTION_MODIFY = "modify";
    public static final String ACTION_READ = "read";
    public static final String ACTION_REMOVE = "remove";
    public static final String ACTION_LOCK = "lock";
    public static final String ACTION_LISTEN = "listen";
    public static final String ACTION_RELEASE = "release";
    public static final String ACTION_ACQUIRE = "acquire";
    public static final String ACTION_PUT = "put";
    public static final String ACTION_ADD = "add";
    public static final String ACTION_INDEX = "index";
    public static final String ACTION_INTERCEPT = "intercept";
    public static final String ACTION_PUBLISH = "publish";
    public static final String ACTION_AGGREGATE = "aggregate";
    public static final String ACTION_PROJECTION = "projection";

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

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

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

```



```

    public Permission create(String name, String... actions) {
        return new MultiMapPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ListPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SetPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountDownLatchPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new TopicPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new
PermissionFactory() {

```

```

@Override
public Permission create(String name, String... actions) {
    return new ExecutorServicePermission(name, actions);
}
});
PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new MapReducePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ReplicatedMapPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(AtomicReferenceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CacheService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CachePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RingbufferService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new RingBufferPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedDurableExecutorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new DurableExecutorServicePermission(name, actions);
    }
});

```

```

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

private ActionConstants() {
}

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

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

    return permissionFactory.create(name, actions);
}

}

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```

```

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*/

package com.hazelcast.security.permission;

import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;

import java.security.Permission;

/**
 * TODO: Object Permission
 */
public abstract class InstancePermission extends ClusterPermission {

    protected static final int NONE = 0;
    protected static final int CREATE = 1;
    protected static final int DESTROY = 2;

    private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new
WildcardConfigPatternMatcher();

    protected final int mask;
    protected final String actions;

    public InstancePermission(String name, String... actions) {
        super(name);
        if (name == null || "".equals(name)) {
            throw new IllegalArgumentException("Permission name is mandatory!");
        }
        mask = initMask(actions);

        final StringBuilder s = new StringBuilder();
        for (String action : actions) {
            s.append(action).append(" ");
        }
        this.actions = s.toString();
    }

    /**
     * init mask
     */
    protected abstract int initMask(String[] actions);

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

```

```

InstancePermission that = (InstancePermission) permission;

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

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

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

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

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

```

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 */
```

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

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

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

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 */
```

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

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

```
public class DenyAllPermissionCollection extends PermissionCollection {
```

```

public DenyAllPermissionCollection() {
}

@Override
public void add(Permission permission) {
}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```
    @Override
```



```

public int hashCode() {
    return 111;
}

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

    public AllPermissionsCollection() {
    }

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

    @Override
    public void add(Permission permission) {
        if (permission instanceof AllPermissions) {
            all = true;
        }
    }

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

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

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

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

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

```

```

    }

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

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

package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;

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

```

```

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

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

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
            mask |= ACQUIRE;
        } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
            mask |= RELEASE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

```

```

private static final int ALL = CREATE | DESTROY;

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

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

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

package com.hazelcast.security.permission;

public class ScheduledExecutorPermission
    extends InstancePermission {

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

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

```

```

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

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

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

package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;

```

```

private static final int READ = 16;
private static final int LISTEN = 32;
private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

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

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

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

```

```

package com.hazelcast.security.permission;

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

public class ClusterPermissionCollection extends PermissionCollection {

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

    public ClusterPermissionCollection() {
        permClass = null;
    }

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

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

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

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

```

```

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

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

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

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

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

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

```
public class LockPermission extends InstancePermission {

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

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

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

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

```

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

```

public class CountdownLatchPermission extends InstancePermission {

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

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

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

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

```

```

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 */

```

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

```
public class CardinalityEstimatorPermission extends InstancePermission {
```

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

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

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

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

```

```
    @Override
```

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

```
        int mask = NONE;
```

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

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

```
                return ALL;
```

```
            }
```

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

```
                mask |= CREATE;
```

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

```
                mask |= READ;
```

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

```
                mask |= MODIFY;
```

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

```
                mask |= DESTROY;
```

```
            }
```

```
        }
```

```
        return mask;
    }

```

```

    }
}
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 */

```

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

```

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

    private static final int ALL = CREATE | DESTROY;

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

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

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

```

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 */

```

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

```
public class AtomicReferencePermission extends InstancePermission {
```

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

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

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

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

```

```
    @Override
```

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

```
        int mask = NONE;
```

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

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

```
                return ALL;
```

```
            }

```

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

```
                mask |= CREATE;
```

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

```
                mask |= READ;
```

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

```
                mask |= MODIFY;
```

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

```
                mask |= DESTROY;
```

```
            }

```

```
        }

```

```
        return mask;
    }

```

```

    }
}
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 */

package com.hazelcast.security.permission;

public class ExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

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

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

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

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

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

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

```
/*
```

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*/
```

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

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

```
public abstract class ClusterPermission extends Permission {
```

```
    private int hashCode;
```

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

```

}

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

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

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

```

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

```

public class AtomicLongPermission extends InstancePermission {

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

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

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

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

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

package com.hazelcast.security.permission;

```
public class TopicPermission extends InstancePermission {

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

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

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

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

```

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

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

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

```

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

```

```

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

```

```

    @Override
    public String getActions() {
        return "transaction";
    }
}

```

```
/*
```

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```

```
*/
```

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```

```

*/

package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {

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

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

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

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

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

```
public class MapPermission extends InstancePermission {
```

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

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

```
    @Override
```

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

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

```

        mask |= LOCK;
    } else if (ActionConstants.ACTION_INDEX.equals(action)) {
        mask |= INDEX;
    } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
        mask |= INTERCEPT;
    }
}
return mask;
}
}
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 */

package com.hazelcast.security.permission;

```

```

public class ReplicatedMapPermission extends InstancePermission {

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

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

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

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

```

```

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 */

```

```

package com.hazelcast.security.permission;

```

```

public class QueuePermission extends InstancePermission {

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

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

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

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

```



```

        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {

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

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

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

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

```

```

        mask |= PUT;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    }
}
return mask;
}
}

```

3.290 hazelcast-client 3.8.9

3.291 hazelcast-client-protocol 1.4.1

3.291.1 Available under license :

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 */

```

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

```
public class ListPermission extends InstancePermission {
```

```

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

```

```

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

```

```
@Override
```

```

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

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

package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

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

```

```

    }

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

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

package com.hazelcast.security.permission;

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

public final class AllPermissions extends ClusterPermission {

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

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

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

```

```

}

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

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

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

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

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

    public AllPermissionsCollection() {
    }

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

    @Override
    public void add(Permission permission) {
        if (permission instanceof AllPermissions) {
            all = true;
        }
    }

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

    @Override
    public Enumeration<Permission> elements() {
        return new Enumeration<Permission>() {

```

```

        boolean more = all;

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

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

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

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

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

```

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

```

public class CountdownLatchPermission extends InstancePermission {

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

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

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

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

```

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

```

public class LockPermission extends InstancePermission {

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

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

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

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



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*/

```

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

```
/**
```

```
* To be able to map-reduce from a client in a secure environment
```

```
*/
```

```
public class MapReducePermission extends InstancePermission {
```

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

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

```

```
    @Override
```

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

```
        int mask = NONE;
```

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

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

```
                return ALL;
```

```
            }
```

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

```
                mask |= CREATE;
```

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

```
                mask |= DESTROY;
```

```
            }
```

```
        }
```

```
        return mask;
```

```
    }
```

```
    }
```

```
/**
```

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```

```
*/
```

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```
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*/

```

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

```

public class CachePermission extends InstancePermission {

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

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

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

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

```

```
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 */
```

```
/**
 * Contains all the security permissions
 */
package com.hazelcast.security.permission;
```

```
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 */
```

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

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

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

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

```
    @Override
```

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

```

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

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

package com.hazelcast.security.permission;

public class TopicPermission extends InstancePermission {

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

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

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

```

```

        return ALL;
    }

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

package com.hazelcast.security.permission;

public class ReplicatedMapPermission extends InstancePermission {

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

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

```

```

}

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

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

```

```

package com.hazelcast.security.permission;

public class ScheduledExecutorPermission
    extends InstancePermission {

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

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

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

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

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

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

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

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

```
/**
```

```
 * TODO: Object Permission
```

```
*/
```

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

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

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

```
    protected static final int DESTROY = 2;
```

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

```
    protected final int mask;
```

```
    protected final String actions;
```

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

```
        super(name);
```

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

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

```
        }
```

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

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

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

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

```
        }
```

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

```
    }
```

```
/**
```

```
 * init mask
```

```
*/
```

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

```
@Override
```

```
public boolean implies(Permission permission) {
```

```
    if (this.getClass() != permission.getClass()) {
```

```
        return false;
```



```

    }

    InstancePermission that = (InstancePermission) permission;

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

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

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

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

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

```

```

}
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 */

```

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

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

```
public class DenyAllPermissionCollection extends PermissionCollection {
```

```
    public DenyAllPermissionCollection() {
    }

```

```
    @Override
    public void add(Permission permission) {
    }

```

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

```

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

```

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

```

```

    }
};
}

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

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

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

package com.hazelcast.security.permission;

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

public class ClusterPermissionCollection extends PermissionCollection {

    final Set<Permission> perms = new HashSet<Permission>();

```

```

final Class<? extends Permission> permClass;

public ClusterPermissionCollection() {
    permClass = null;
}

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

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

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

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

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

public void compact() {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
}

```

```

final Iterator<Permission> iter = perms.iterator();
while (iter.hasNext()) {
    final Permission perm = iter.next();
    boolean implies = false;
    for (Permission p : perms) {
        if (p != perm && p.implies(perm)) {
            implies = true;
            break;
        }
    }
    if (implies) {
        iter.remove();
    }
}
setReadOnly();
}

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

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

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

package com.hazelcast.security.permission;

```

```

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

```

```

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

```

```

public final class ActionConstants {

    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";
    public static final String ACTION_DESTROY = "destroy";
    public static final String ACTION_MODIFY = "modify";
    public static final String ACTION_READ = "read";
    public static final String ACTION_REMOVE = "remove";
    public static final String ACTION_LOCK = "lock";
    public static final String ACTION_LISTEN = "listen";
    public static final String ACTION_RELEASE = "release";
    public static final String ACTION_ACQUIRE = "acquire";
    public static final String ACTION_PUT = "put";
    public static final String ACTION_ADD = "add";
    public static final String ACTION_INDEX = "index";
    public static final String ACTION_INTERCEPT = "intercept";
    public static final String ACTION_PUBLISH = "publish";
    public static final String ACTION_AGGREGATE = "aggregate";
    public static final String ACTION_PROJECTION = "projection";

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

```

```

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

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

```

```

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

```



```

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

private ActionConstants() {
}

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

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

```

```

    }

    return permissionFactory.create(name, actions);
}

}
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 */

package com.hazelcast.security.permission;

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

public abstract class ClusterPermission extends Permission {

    private int hashCode;

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

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

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

```

```

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

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

package com.hazelcast.security.permission;

public class SetPermission extends ListPermission {

```

```

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

package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

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

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

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

```

```

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 */

```

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

```
public class AtomicReferencePermission extends InstancePermission {
```

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

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

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

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

```

```
    @Override
```

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

```
        int mask = NONE;
```

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

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

```
                return ALL;
```

```
            }
```

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

```
                mask |= CREATE;
```

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

```
                mask |= READ;
```

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

```
                mask |= MODIFY;
```

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

```
                mask |= DESTROY;
```

```
            }
```

```
        }
```

```
        return mask;
    }

```

```

    }
}
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 */

```

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

```

public class AtomicLongPermission extends InstancePermission {

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

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

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

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

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

```

```

    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {

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

package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {

```

```

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

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

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

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

package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {

```



```

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

```

```

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

```

```
@Override
```

```

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

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

```

```

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```

```

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*/

```

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

```

public class QueuePermission extends InstancePermission {

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

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

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

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

```

```

    }
  }
  return mask;
}
}
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 */

```

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

```
public class CardinalityEstimatorPermission extends InstancePermission {
```

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

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

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

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

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

```
    }
```

```
    @Override
```

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

```
        int mask = NONE;
```

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

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

```
                return ALL;
```

```
            }
```

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

```
                mask |= CREATE;
```

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

```
                mask |= READ;
```

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

```
                mask |= MODIFY;
```

```

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

package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;

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

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

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

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

```

```

        mask |= ACQUIRE;
    } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
        mask |= RELEASE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    }
    }
    return mask;
}
}

```

3.292 hazelcast-spring 3.2.4

3.293 hibernate 3.6.9

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

```
//$Id: Permission.java 10977 2006-12-12 23:28:04Z steve.ebersole@jboss.com $  
package org.hibernate.test.collection.original;
```

```
/**  
 * @author Gavin King  
 */  
public class Permission {  
    private String type;  
    Permission() {}  
    public String getType() {  
        return type;  
    }  
    public void setType(String type) {  
        this.type = type;  
    }  
    public Permission(String type) {  
        this.type = type;  
    }  
}
```

```

public boolean equals(Object that) {
    if ( !(that instanceof Permission) ) return false;
    Permission p = (Permission) that;
    return this.type.equals(p.type);
}
public int hashCode() {
    return type.hashCode();
}
}
//$Id$
package org.hibernate.test.annotations.manytomany;

import java.util.Date;
import javax.persistence.Entity;
import javax.persistence.Id;

/**
 * @author Emmanuel Bernard
 */
@Entity
public class Permission {
    private String permission;
    private Date expirationDate;

    @Id
    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    public Date getExpirationDate() {
        return expirationDate;
    }

    public void setExpirationDate(Date expirationDate) {
        this.expirationDate = expirationDate;
    }
}
//$Id: Permission.java 7805 2005-08-10 16:25:11Z stevebersole $
package org.hibernate.test.version.sybase;

import java.util.Date;

/**
 * Implementation of Permission.

```

```

*
* @author Steve Ebersole
*/
public class Permission {
    private Long id;
    private Date timestamp;
    private String name;
    private String context;
    private String access;

    public Permission() {
    }

    public Permission(String name, String context, String access) {
        this.name = name;
        this.context = context;
        this.access = access;
    }

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }

    public Date getTimestamp() {
        return timestamp;
    }

    public void setTimestamp(Date timestamp) {
        this.timestamp = timestamp;
    }

    public String getName() {
        return name;
    }

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

    public String getContext() {
        return context;
    }

    public void setContext(String context) {

```

```

    this.context = context;
}

public String getAccess() {
    return access;
}

public void setAccess(String access) {
    this.access = access;
}
}
// $Id: Permission.java 7736 2005-08-03 20:03:34Z steveebersole $
package org.hibernate.test.version.db;

import java.util.Date;

/**
 * Implementation of Permission.
 *
 * @author Steve Ebersole
 */
public class Permission {
    private Long id;
    private Date timestamp;
    private String name;
    private String context;
    private String access;

    public Permission() {
    }

    public Permission(String name, String context, String access) {
        this.name = name;
        this.context = context;
        this.access = access;
    }

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }

    public Date getTimestamp() {
        return timestamp;
    }
}

```

```

public void setTimestamp(Date timestamp) {
    this.timestamp = timestamp;
}

public String getName() {
    return name;
}

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

public String getContext() {
    return context;
}

public void setContext(String context) {
    this.context = context;
}

public String getAccess() {
    return access;
}

public void setAccess(String access) {
    this.access = access;
}
}
package org.hibernate.ejb.test.util;

import javax.persistence.Entity;
import javax.persistence.FetchType;
import javax.persistence.ManyToOne;
import javax.persistence.MappedSuperclass;

/**
 * @author Emmanuel Bernard
 */
@MappedSuperclass
public abstract class CopyrightableContent {
    private Author author;

    public CopyrightableContent() {
    }

    public CopyrightableContent(Author author) {

```

```

    this.author = author;
}

@ManyToOne(fetch = FetchType.LAZY)
private Author getAuthor() {
    return author;
}

private void setAuthor(Author author) {
    this.author = author;
}
}

```

3.294 Hibernate Commons Annotations

3.2.0.Final

3.294.1 Available under license :

```

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 * Hibernate, Relational Persistence for Idiomatic Java
 *
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy 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 compelled to copy the source along with the object code.

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 library". The executable is therefore covered by this License. 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.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU

operating system, as well as its variant, the GNU/Linux operating system.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy 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 compelled to copy the source along with the object code.

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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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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified

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 */
package org.hibernate.annotations.common.reflection.java.generics;

import java.lang.reflect.GenericArrayType;
import java.lang.reflect.ParameterizedType;
import java.lang.reflect.Type;
import java.lang.reflect.TypeVariable;
```



```

import java.lang.reflect.WildcardType;
import java.util.HashMap;

/**
 * Binds formal type arguments (typically T, E, etc.) to actual types.
 *
 * @author Davide Marchignoli
 * @author Paolo Perrotta
 */
class SimpleTypeEnvironment extends HashMap<Type, Type> implements TypeEnvironment {

    private static final long serialVersionUID = 1L;

    private final TypeSwitch<Type> substitute = new TypeSwitch<Type>() {
        @Override
        public Type caseClass(Class classType) {
            return classType;
        }

        @Override
        public Type caseGenericType(GenericType genericType) {
            Type originalComponentType = genericType.getGenericComponentType();
            Type boundComponentType = bind( originalComponentType );
            // try to keep the original type if possible
            if ( originalComponentType == boundComponentType ) {
                return genericType;
            }
            return TypeFactory.createGenericType( boundComponentType );
        }

        @Override
        public Type caseParameterizedType(ParameterizedType parameterizedType) {
            Type[] originalArguments = parameterizedType.getActualTypeArguments();
            Type[] boundArguments = substitute( originalArguments );
            // try to keep the original type if possible
            if ( areSame( originalArguments, boundArguments ) ) {
                return parameterizedType;
            }
            return TypeFactory.createParameterizedType(
                parameterizedType.getRawType(), boundArguments, parameterizedType.getOwnerType()
            );
        }

        private boolean areSame(Object[] array1, Object[] array2) {
            if ( array1.length != array2.length ) {
                return false;
            }
            for ( int i = 0; i < array1.length ; i++ ) {

```

```

    if ( array1[i] != array2[i] ) {
        return false;
    }
}
return true;
}

```

@Override

```

public Type caseTypeVariable(TypeVariable typeVariable) {
    if ( !containsKey( typeVariable ) ) {
        return typeVariable;
    }
    return get( typeVariable );
}

```

@Override

```

public Type caseWildcardType(WildcardType wildcardType) {
    return wildcardType;
}
};

```

```

public SimpleTypeEnvironment(Type[] formalTypeArgs, Type[] actualTypeArgs) {
    for (int i = 0; i < formalTypeArgs.length; i++) {
        put( formalTypeArgs[i], actualTypeArgs[i] );
    }
}

```

```

public Type bind(Type type) {
    return substitute.doSwitch( type );
}

```

```

private Type[] substitute(Type[] types) {
    Type[] substTypes = new Type[types.length];
    for ( int i = 0; i < substTypes.length ; i++ ) {
        substTypes[i] = bind( types[i] );
    }
    return substTypes;
}
}
}

```

/*

* Hibernate, Relational Persistence for Idiomatic Java

*

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 */

```
package org.hibernate.annotations.common.reflection.java;
```

```
import java.lang.reflect.Type;
import java.util.Collection;
```

```
import org.hibernate.annotations.common.reflection.XClass;
import org.hibernate.annotations.common.reflection.java.generics.TypeEnvironment;
```

```
/**
```

```
 * @author Emmanuel Bernard
```

```
 * @author Paolo Perrotta
```

```
 */
```

```
class JavaXSimpleType extends JavaXType {
```

```
    public JavaXSimpleType(Type type, TypeEnvironment context, JavaReflectionManager factory) {
        super( type, context, factory );
    }
```

```
    public boolean isArray() {
        return false;
    }
```

```
    public boolean isCollection() {
        return false;
    }
```

```
    public XClass getElementClass() {
        return toXClass( approximate() );
    }
```

```
    public XClass getClassOrElementClass() {
        return getElementClass();
    }
```

```
public Class<? extends Collection> getCollectionClass() {  
    return null;  
}  
  
public XClass getType() {  
    return toXClass( approximate() );  
}  
  
public XClass getMapKey() {  
    return null;  
}  
}
```

3.299 hibernate-commons-annotations 4.0.1

3.300 hibernate-commons-annotations 5.0.1

3.301 hibernate-entitymanager 3.6.7

3.302 hibernate-jpa-2.0-api 1.0.1

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3.303 hibernate-jpa-2.0-api 1.0.1.Final

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3.304 hibernate-jpa-2.1-api 1.0.0

3.305 hibernate-validator 6.0.2.Final

3.306 hibernate-validator 5.2.4

3.307 hibernate-validator 5.1.3

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

3.308 hibernate-validator 5.1.2

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3.336 httpcomponents-core 4.4.5

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3.345 inspektr-audit 1.0.7.GA

3.346 inspektr-common 1.0.7.GA

3.347 instrumentation-api 0.4.3

3.348 instrumentation-api 0.4.3

3.349 instrumentation-java 0.4.3

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3.368 jackson-core-asl 1.9.13

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That's all there is to it!

/* Jackson JSON-processor.

*

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3.369 jackson-coreutils 1.6

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3.370 jackson-databind 2.3.3

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3.372 jackson-databind 2.6.3

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3.400 Jackson-module-JAXB-annotations

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3.415 jasypt 1.9.0

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3.416 java-concurrent-hash-trie-map 0.2.23

3.417 java-getopt 1.0.13

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3.418 java-ipv6 0.16

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3.420 java-jwt 2.1.0

3.421 java-jwt 2.2.1

3.422 java-xml 2.1.7

3.423 JavaBeans(TM) Activation Framework

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3.428 javassist 3.17.1-GA

3.429 Javassist 3.11.0.GA

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3.430 javassist 3.12.0.GA

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3.436 javax-transaction 1.1.0

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3.438 javax.activation 1.2.0

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```
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```

```
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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.
 *
 * <ul>
 * <li> 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;
}

```

}

3.439 javax.annotation API 1.2

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3.443 javax.el-api 2.2.4

3.444 javax.inject 1

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3.445 javax.inject 2.4.0

3.446 javax.inject 2.2.0

3.447 javax.inject 1

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3.448 javax.inject 2.5.0-b05

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3.454 jaxb-api 2.2.11

3.455 jaxb-api 2.2

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can have additional goals; the JAXB RI is a production-quality implementation that is used directly in a number of products by Oracle and other vendors.

The JAXB expert group has wide industry participation with Oracle as the EG lead. The initial specification (JAXB 1.0) was JSR-31 and was released in March 2003.

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3.456 jaxb-api-osgi-sources 2.2

3.457 jaxb-core 2.2.11

3.458 jaxb-impl 2.2.11

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3.459 jaxb-runtime 2.3.1

3.460 jaxb-runtime 2.2.11

3.461 jaxb2-basics-runtime 0.9.5

3.462 jaxen 1.1.6

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3.463 jaxen 1.1.1

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3.464 jaxws-api 2.3.0

3.465 JBoss Logging 3 3.1.3.GA

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3.466 jboss-annotations-api_1.2_spec 1.0.0

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3.468 jboss-logging 3.1.0

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

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which

must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy 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 compelled to copy the source along with the object code.

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 library". The executable is therefore covered by this License. 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.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy 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 compelled to copy the source along with the object code.

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.

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3.474 jcip-annotations 1.0-1

3.475 jcip-annotations 1.0-1

3.476 JCL 1.1.1 implemented over SLF4J 1.7.2

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3.477 jcl-over-slf4j 1.7.21

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3.478 jcl-over-slf4j 1.7.7

3.479 JCommander 1.12

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3.480 jcommander 1.30

3.481 JDOM 1.0

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3.482 jdom 1.1.3

3.483 jedis 2.8.1

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3.484 jeromq 0.3.2

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- */

```
package org.glassfish.jersey.server.wadl;
```

```
import javax.ws.rs.core.UriInfo;
```

```
import javax.xml.bind.JAXBContext;
```

```
import org.glassfish.jersey.server.wadl.internal.ApplicationDescription;
```

```
import com.sun.research.ws.wadl.Application;
```

```
/**
```

```
 * A context to obtain WADL-based information.
```

```
 *
```

```
 * @author Paul.Sandoz
```

```
 */
```

```
public interface WadlApplicationContext {
```

```
 // /**
```

```
 //  * Get a WADL builder initiated with the configured { @link WadlGenerator}
```

```
 //  * for the Web application.
```

```

// *
// * @return the WADL builder.
// */
// WadlBuilder getWadlBuilder();

// /**
// * Get a new instance of a {@link ApplicationDescription} corresponding to all
// * the root resource classes.
// *
// * @return the application description, the contents may be modified.
// */
// ApplicationDescription getApplication();

/**
 * Get a new instance of a {@link ApplicationDescription} corresponding to all
 * the root resource classes, and configure the base URI.
 *
 * @param ui the URI information from which the base URI is set on the
 *         WADL application.
 * @return the application description, the contents may be modified.
 */
ApplicationDescription getApplication(UriInfo ui, boolean detailedWadl);

/**
 * Get a new instance of {@link Application} for a particular resource.
 *
 * @param info the URI information from which the base URI is set on the
 *         WADL application.
 * @param resource the resource to build the Application for
 * @return the application for this resource
 */
Application getApplication(UriInfo info,
                           org.glassfish.jersey.server.model.Resource resource, boolean detailedWadl);

/**
 * Get the default JAXB context associated with the {@link WadlGenerator}
 * for the Web application.
 *
 * @return the default JAXB context.
 */
JAXBContext getJAXBContext();

// /**
// * Get the default JAXB context path to create a {@link JAXBContext}.
// *
// * @return the default JAXB context.
// */

```

```

// String getJAXBContextPath();

/**
 * Enable/disable WADL generation.
 *
 * @param wadlGenerationEnabled if wadlGenerationEnabled is true and
 *      { @link org.glassfish.jersey.server.ServerProperties#WADL_FEATURE_DISABLE}
 *      is false, WADL generation is enabled. In all other cases is disabled.
 */
void setWadlGenerationEnabled(boolean wadlGenerationEnabled);

/**
 * Get WADL generation status.
 *
 * @return true when WADL generation is enabled. Does not take
 *      { @link org.glassfish.jersey.server.ServerProperties#WADL_FEATURE_DISABLE}
 */
boolean isWadlGenerationEnabled();
}
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*/
```

```
package org.glassfish.jersey.server.monitoring;
```

```
import java.util.Date;
import java.util.Map;
import java.util.Set;
```

```
/**
```

```
 * Application MX Bean.
```

```
 *
```

```
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
```

```
 */
```

```
public interface ApplicationMXBean {
```

```
    /**
```

```
     * Get the application name.
```

```
     *
```

```
     * @return Application name.
```

```
     */
```

```
    public String getApplicationName();
```

```
    /**
```

```
     * Get the { @link javax.ws.rs.core.Application application class } used for configuration of Jersey application.
```

```
     *
```

```
     * @return Application class name.
```

```
     */
```

```
    public String getApplicationClass();
```

```
    /**
```

```
     * Get the map of configuration properties converted to strings.
```

```
     *
```

```
     * @return Map property keys to property string values.
```

```
     */
```

```
    public Map<String, String> getProperties();
```

```
    /**
```

```
     * Get the start time of the application (when application was initialized).
```

```
     *
```

```
     * @return Application start time.
```

```

*/
public Date getStartTime();

/**
 * Get a set of string names of resource classes registered by the user.
 *
 * @return Set of classes full names (with package names).
 * @see org.glassfish.jersey.server.monitoring.ApplicationEvent#getRegisteredClasses() for specification
 * of returned classes.
 */
public Set<String> getRegisteredClasses();

/**
 * Get a set of string names of classes of user registered instances.
 *
 * @return Set of user registered instances converted to their class full names (with package names).
 * @see org.glassfish.jersey.server.monitoring.ApplicationEvent#getRegisteredInstances()
 * for specification of returned instances.
 */
public Set<String> getRegisteredInstances();

/**
 * Get classes of registered providers.
 *
 * @return Set of provider class full names (with packages names).
 * @see org.glassfish.jersey.server.monitoring.ApplicationEvent#getProviders() for specification
 * of returned classes.
 */
public Set<String> getProviderClasses();
}
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*/

```

```
package org.glassfish.jersey.server.monitoring;
```

```
import java.util.Set;
```

```
import org.glassfish.jersey.server.ResourceConfig;
import org.glassfish.jersey.server.model.ResourceModel;
```

```

/**
 * An event informing about application lifecycle changes. The event is created by Jersey runtime and
 * handled by user registered { @link ApplicationEventListener application event listener }.
 * <p/>
 * The event contains the { @link Type } which distinguishes between types of event. There are various
 * properties in the event (accessible by getters) and some of them might be relevant only to specific event types.
 * <p/>
 * Note that internal state of the event must be modified. Even the event is immutable it exposes objects
 * which might be mutable and the code of event listener must not change state of these objects.
 *
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
 */
public interface ApplicationEvent {

    /**
     * The type of the event that identifies on which lifecycle change the event is triggered.
     */
    public static enum Type {

        /**

```



```

* Initialization of the application has started. In this point no all the event properties
* are initialized yet.
*/
INITIALIZATION_START,
/**
* Initialization of { @link org.glassfish.jersey.server.ApplicationHandler jersey application } is
* finished but the server might not be started and ready yet to serve requests (this will be
* indicated by the { @link #INITIALIZATION_FINISHED } event). This event indicates only that the
* environment is ready (all providers are registered, application is configured, etc.).
*
* @since 2.5
*/
INITIALIZATION_APP_FINISHED,
/**
* Initialization of the application has finished, server is started and application is ready
* to handle requests now.
*/
INITIALIZATION_FINISHED,
/**
* Application has been destroyed (stopped). In this point the application cannot process any new requests.
*/
DESTROY_FINISHED,
/**
* The application reload is finished. The reload can be invoked by
* { @link org.glassfish.jersey.server.spi.Container#reload() } method. When this event is triggered
* the reload is completely finished, which means that the new application is initialized (appropriate
* events are called) and new reloaded application is ready to server requests.
*/
RELOAD_FINISHED
}

/**
* Return the type of the event.
*
* @return Event type.
*/
public Type getType();

/**
* Get resource config associated with the application. The resource config is set for all event types.
*
* @return Resource config on which this application is based on.
*/
public ResourceConfig getResourceConfig();

/**
* Get resource classes registered by the user in the current application. The set contains only

```

```

* user resource classes and not resource classes added by Jersey
* or by { @link org.glassfish.jersey.server.model.ModelProcessor}.
* <p/>
* User resources are resources that
* were explicitly registered by the configuration, discovered by the class path scanning or that
* constructs explicitly registered { @link org.glassfish.jersey.server.model.Resource programmatic resource}.
*
* @return Resource user registered classes.
*/
public Set<Class<?>> getRegisteredClasses();

/**
* Get resource instances registered by the user in the current application. The set contains only
* user resources and not resources added by Jersey
* or by { @link org.glassfish.jersey.server.model.ModelProcessor}.
* <p/>
* User resources are resources that
* were explicitly registered by the configuration, discovered by the class path scanning or that
* constructs explicitly registered { @link org.glassfish.jersey.server.model.Resource programmatic resource}.
*
* @return Resource instances registered by user.
*/
public Set<Object> getRegisteredInstances();

/**
* Get registered providers available in the runtime. The registered providers
* are providers like { @link org.glassfish.jersey.server.model.MethodList.Filter filters},
* { @link javax.ws.rs.ext.ReaderInterceptor reader} and { @link javax.ws.rs.ext.WriterInterceptor writer}
* interceptors which are explicitly registered by configuration, or annotated by
* { @link javax.ws.rs.ext.Provider @Provider} or registered in META-INF/services. The
* set does not include providers that are by default built in Jersey.
*
* @return Set of provider classes.
*/
public Set<Class<?>> getProviders();

/**
* Get the resource model of the application. The method returns null for
* { @link Type#INITIALIZATION_START} event type as the resource model is not initialized yet.
* The returned resource model is the final deployed model including resources enhanced by
* { @link org.glassfish.jersey.server.model.ModelProcessor model processors}.
*
* @return Resource model of the deployed application.
*/
public ResourceModel getResourceModel();
}

```

```

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 */

package org.glassfish.jersey.server.monitoring;

import javax.ws.rs.ConstrainedTo;
import javax.ws.rs.RuntimeType;

import org.glassfish.jersey.spi.Contract;

/**

```

- * Jersey specific provider that listens to { @link ApplicationEvent application events }.
- * The implementation of this interface will be called for two kind of events:
- * application events and { @link RequestEvent request events }. This interface will listen to
- * all { @link org.glassfish.jersey.server.monitoring.ApplicationEvent.Type application event types }
- * but only to first request event which is the { @link RequestEvent.Type#START }. On this event the
- * application event listener can decide whether it will listen to the request and return { @link RequestEventListener
- * request event listener } for listening to further request events.

* }

* <p/>

- * The implementation of this interface can be registered as a standard Jersey/JAX-RS provider
- * by annotating with { @link javax.ws.rs.ext.Provider @Provider } annotation in the case of
- * class path scanning, by registering as a provider using { @link org.glassfish.jersey.server.ResourceConfig }
- * or by returning from { @link javax.ws.rs.core.Application#getClasses() }
- * or { @link javax.ws.rs.core.Application#getSingletons() }. The provider can be registered only on the server
- * side.

* <p/>

- * Application event listener can read data of events but must not modify them in any way. The implementation
- * must be thread safe (the methods might be called from different threads).

*

- * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)

*/

@Contract

@ConstrainedTo(RuntimeType.SERVER)

public interface ApplicationEventListener {

/**

- * Process the application { @code event }. This method is called when new event occurs.

*

- * @param event Application event.

*/

public void onEvent(ApplicationEvent event);

/**

- * Process a new request and return a { @link RequestEventListener request event listener } if
- * listening to { @link RequestEvent request events } is required. The method is called once for
- * each new incoming request. If listening to the request is required then request event must be returned
- * from the method. Such a request event listener will receive all request events that one request. If listening
- * to request event for the request is not required then { @code null } must be returned
- * from the method (do not return empty mock listener in these
- * cases as it will have negative performance impact).

*

- * @param requestEvent Event of type { @link RequestEvent.Type#START }.

- * @return Request event listener that will monitor the events of the request

- * connected with { @code requestEvent }; null otherwise.

*/

public RequestEventListener onRequest(RequestEvent requestEvent);

}

/*

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*/

```

```
package org.glassfish.jersey.server.monitoring;
```

```
import java.util.Date;
import java.util.Set;
```

```
import org.glassfish.jersey.server.ResourceConfig;
```

```
/**
```

```
* Monitoring statistics and configuration of an application.
```

```
* <p/>
```

```

* Statistics retrieved from Jersey runtime might be mutable and thanks to it might provide inconsistent data
* as not all statistics are updated in the same time. To retrieve the immutable and consistent
* statistics data the method { @link #snapshot()} should be used.
*
* @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
* @see MonitoringStatistics See MonitoringStatistics class for general details about statistics.
*/
public interface ApplicationStatistics {
    /**
     * Get the resource config.
     *
     * @return Resource config.
     */
    public ResourceConfig getResourceConfig();

    /**
     * Get the start time of the application.
     *
     * @return Time when an application initialization has been finished.
     */
    public Date getStartTime();

    /**
     * Get the time when application destroy (stop) has been finished.
     *
     * @return Destroy time.
     *
     * @deprecated deprecated since 2.5 (destroy time will always be { @code null}). Use
     * { @link
     org.glassfish.jersey.server.spi.ContainerLifecycleListener#onShutdown(org.glassfish.jersey.server.spi.Container)}
     * to listen on the destroy.
     */
    public Date getDestroyTime();

    /**
     * Get resource classes registered by the user in the current application. The set contains only
     * user resource classes and not resource classes added by Jersey
     * or by { @link org.glassfish.jersey.server.model.ModelProcessor}.
     * <p/>
     * User resources are resources that
     * were explicitly registered by the configuration, discovered by the class path scanning or that
     * constructs explicitly registered { @link org.glassfish.jersey.server.model.Resource programmatic resource}.
     *
     * @return Resource user registered classes.
     */
    public Set<Class<?>> getRegisteredClasses();
}

```

```

/**
 * Get resource instances registered by the user in the current application. The set contains only
 * user resources and not resources added by Jersey
 * or by { @link org.glassfish.jersey.server.model.ModelProcessor}.
 * <p/>
 * User resources are resources that
 * were explicitly registered by the configuration, discovered by the class path scanning or that
 * constructs explicitly registered { @link org.glassfish.jersey.server.model.Resource programmatic resource}.
 *
 * @return Resource instances registered by user.
 */
public Set<Object> getRegisteredInstances();

/**
 * Get registered providers available in the runtime. The registered providers
 * are providers like { @link org.glassfish.jersey.server.model.MethodList.Filter filters},
 * { @link javax.ws.rs.ext.ReaderInterceptor reader} and { @link javax.ws.rs.ext.WriterInterceptor writer}
 * interceptors which are explicitly registered by configuration, or annotated by
 * { @link javax.ws.rs.ext.Provider @Provider} or registered in META-INF/services. The
 * set does not include providers that are by default built in Jersey.
 *
 * @return Set of provider classes.
 */
public Set<Class<?>> getProviders();

/**
 * Get the immutable consistent snapshot of the monitoring statistics. Working with snapshots might
 * have negative performance impact as snapshot must be created but ensures consistency of data over time.
 * However, the usage of snapshot is encouraged to avoid working with inconsistent data. Not all statistics
 * must be updated in the same time on mutable version of statistics.
 *
 * @return Snapshot of application statistics.
 */
public ApplicationStatistics snapshot();
}

```

3.488 jersey-client 2.22.2

3.489 jersey-common 2.24.1

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3.491 jersey-container-servlet 2.6

3.492 jersey-container-servlet 2.24.1

3.493 jersey-container-servlet-core 2.24.1

3.494 jersey-entity-filtering 2.24.1

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3.503 Jettison 1.3.3

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3.505 jline 0.9.94

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3.507 JMS 1.1 1.1.1

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3.510 joda-time 2.7

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3.513 jopt-simple 4.6

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3.514 jopt-simple_Apachev2_prettify.js 4.6

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3.517 jradius-extended 1.1.4

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That's all there is to it!

```
/* =====  
* JRobin : Pure java implementation of RRDTOol's functionality  
* =====  
*  
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* Boston, MA 02111-1307, USA.  
*/
```

```
package org.jrobin.core;
```

```
/**  
* Class to represent single archive definition within the RRD.  
* Archive definition consists of the following four elements:  
*  
* <ul>  
* <li>consolidation function  
* <li>X-files factor  
* <li>number of steps  
* <li>number of rows.  
* </ul>  
* <p>For the complete explanation of all archive definition parameters, see RRDTOol's  
* <a href="../../../../man/rrdcreate.html" target="man">rrdcreate man page</a>  
* </p>  
*  
* @author <a href="mailto:saxon@jrobin.org">Sasa Markovic</a>  
*/
```

```
public class ArcDef {  
    /** array of valid consolidation function names */  
    public static final String CONSOL_FUNS[] = { "AVERAGE", "MAX", "MIN", "LAST" };  
}
```

```

private String consolFun;
private double xff;
private int steps, rows;

/**
 * <p>Creates new archive definition object. This object should be passed as argument to
 * { @link org.jrobin.core.RrdDef#addArchive(org.jrobin.core.ArcDef) addArchive()} method of
 * { @link org.jrobin.core.RrdDb RrdDb} object.</p>
 *
 * <p>For the complete explanation of all archive definition parameters, see RRDTool's
 * <a href="../../../../man/rrdcreate.html" target="man">rrdcreate man page</a></p>
 *
 * @param consolFun Consolidation function. Allowed values are "AVERAGE", "MIN",
 * "MAX" and "LAST".
 * @param xff X-files factor, between 0 and 1.
 * @param steps Number of archive steps.
 * @param rows Number of archive rows.
 * @throws RrdException Thrown if any parameter has illegal value.
 */
public ArcDef(String consolFun, double xff, int steps, int rows) throws RrdException {
    this.consolFun = consolFun;
    this.xff = xff;
    this.steps = steps;
    this.rows = rows;
    validate();
}

/**
 * Returns consolidation function.
 * @return Consolidation function.
 */
public String getConsolFun() {
    return consolFun;
}

/**
 * Returns the X-files factor.
 * @return X-files factor value.
 */
public double getXff() {
    return xff;
}

/**
 * Returns the number of primary RRD steps which complete a single archive step.
 * @return Number of steps.
 */

```



```

public int getSteps() {
    return steps;
}

/**
 * Returns the number of rows (aggregated values) stored in the archive.
 * @return Number of rows.
 */
public int getRows() {
    return rows;
}

private void validate() throws RrdException {
    if(!isValidConsolFun(consolFun)) {
        throw new RrdException("Invalid consolidation function specified: " + consolFun);
    }
    if(Double.isNaN(xff) || xff < 0.0 || xff >= 1.0) {
        throw new RrdException("Invalid xff, must be >= 0 and < 1: " + xff);
    }
    if(steps <= 0 || rows <= 0) {
        throw new RrdException("Invalid steps/rows number: " + steps + "/" + rows);
    }
}

/**
 * Returns string representing archive definition (RRDTool format).
 * @return String containing all archive definition parameters.
 */
public String dump() {
    return "RRA:" + consolFun + ":" + xff + ":" + steps + ":" + rows;
}

/**
 * Checks if two archive definitions are equal.
 * Archive definitions are considered equal if they have the same number of steps
 * and the same consolidation function. It is not possible to create RRD with two
 * equal archive definitions.
 * @param obj Archive definition to compare with.
 * @return <code>true</code> if archive definitions are equal,
 * <code>false</code> otherwise.
 */
public boolean equals(Object obj) {
    if(obj instanceof ArcDef) {
        ArcDef arcObj = (ArcDef) obj;
        return consolFun.equals(arcObj.consolFun) && steps == arcObj.steps;
    }
    return false;
}

```

```

/**
 * Checks if function argument represents valid consolidation function name.
 * @param consolFun Consolidation function to be checked
 * @return <code>true</code> if <code>consolFun</code> is valid consolidation function,
 * <code>false</code> otherwise.
 */
public static boolean isValidConsolFun(String consolFun) {
    for(int i = 0; i < CONSOL_FUNS.length; i++) {
        if(CONSOL_FUNS[i].equals(consolFun)) {
            return true;
        }
    }
    return false;
}

void setRows(int rows) {
    this.rows = rows;
}

boolean exactlyEqual(ArcDef def) {
    return consolFun.equals(def.consolFun) && xff == def.xff &&
        steps == def.steps && rows == def.rows;
}
}

```

3.519 JSch 0.1.54

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3.522 json-java 20090211

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3.533 jtoml 1.0.0

3.534 jtype 0.1.1

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3.536 JUL to SLF4J bridge 1.6.1

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3.537 jul-to-slf4j 1.7.21

3.538 jul-to-slf4j 1.7.7

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3.539 junit 3.8.2 :3jpp.1

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3.540 JUnit 3.8.1

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3.541 junit 4.12

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3.542 junit 4.12

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3.549 kryo 2.16

3.550 libedit 3.1-20150325-1ubuntu2

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3.568 lucene 3.6.0

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The snowball stopword lists in
`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/snowball`
were developed by Martin Porter and Richard Boulton.

The full snowball package is available from
<http://snowball.tartarus.org/>

The KStem stemmer in
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The Arabic, Persian, Romanian, Bulgarian, and Hindi analyzers (`contrib/analyzers`) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt`,
`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt`,
`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt`,
`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt`,

contrib/analyzers/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:

contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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contrib/analyzers/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
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contrib/analyzers/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (contrib/analyzers) includes BSD-licensed software developed by the Egothor project <http://egothor.sf.net/>, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

The Polish analyzer (contrib/analyzers) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in contrib/analyzers/stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt. See <http://project.carrot2.org/license.html>.

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The class org.apache.lucene.SorterTemplate was inspired by CGLIB's class with the same name. The implementation part is mainly done using pre-existing

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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`mecab-ipadic-2.7.0-20070801`

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3.580 maven-artifact 3.0.3

3.580.1 Available under license :

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!--
```

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```
-->
```

```
<project>
```

```
<modelVersion>4.0.0</modelVersion>
```

```
<!--
```

While <contributors> are inherited, they are not aggregated, only the child elements are used.

```
-->
```

```
<parent>
```

```
<groupId>org.apache.maven.its.mng3843</groupId>
```

```
<artifactId>parent-1</artifactId>
```

```
<version>0.1</version>
```

```
</parent>
```

```
<groupId>org.apache.maven.its.mng3843.child</groupId>
```

```
<artifactId>child-2</artifactId>
```

```
<version>0.2</version>
```

```
<packaging>jar</packaging>
```

```
<contributors>
```

```
<contributor>
```

```
<name>child-contributor</name>
```

```
</contributor>
```

```
</contributors>
```

```

</project>
##
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##
## $Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##

```

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```

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#foreach ( $project in $projects )
#foreach ( $license in $project.licenses )
#if ( ! ($apacheTxt == $license.name) )
#set ( $artId = $project.artifact.artifactId )
#set ( $lf = $locator )
#set ( $url = $license.url )
## glass fish URL is now invalid, use a fixed one
#if ( $url == "https://glassfish.dev.java.net/public/CDDLv1.0.html" )
#set ( $url = 'https://glassfish.java.net/public/CDDLv1.0.html' )
#end
#if ( $url )
#set ( $licFile = 'lib/' + $artId + '.license' )
#set ( $downloaded = $lf.getResourceAsFile($url, "licenses/${licFile}") )
#end

$project.name #if ( $project.url ) ($project.url) #end $project.artifact
License: $license.name #if ( $url ) $url ($licFile) #end

#end
#end

```

#end

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3.600 minimal-json 0.9.4

3.601 minlog 1.2

3.601.1 Available under license :

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3.602 minlog 1.3.0

3.602.1 Available under license :

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
  <meta name="HandheldFriendly" content="true" />
  <link rel="shortlink" href="/node/45" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <link rel="canonical" href="/licenses/BSD-2-Clause" />
  <meta name="MobileOptimized" content="width" />
  <title>The 2-Clause BSD License | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWtJf-fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_IPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />

  <!--[if (lt IE 9)]>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-
business/css/ie8.css?ooglib" media="all" />
  <![endif]-->
```

```

<!-- HTML5 element support for IE6-8 -->
<!--[if lt IE 9]>
  <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->
<script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'>\x3C/script>")
//--><![>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_aczm2rRgH_slWBPnvD3KMrK7rwa1i99HOq8IUAb99Co.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery(document).ready(function($) {
  $(window).scroll(function() {
    if($(this).scrollTop() != 0) {
      $("#toTop").fadeIn();
    } else {
      $("#toTop").fadeOut();
    }
  });

  $("#toTop").click(function() {
    $("body,html").animate({scrollTop:0},800);
  });

});
//--><![>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFIN3f2BnQwnusF-
eI6tkX8wrKak2siiZU.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"5zgPqYOzHVgnE
xJlCrUNS_N9O3OCNbyDu2b-rz4ozIg"},"js":{"\\code.jquery.com\\jquery-
1.10.2.min.js":1,"0":1,"misc\\jquery.once.js":1,"misc\\drupal.js":1,"\\maxcdn.bootstrapcdn.com\\bootstrap\\3.2.0\\js
\\bootstrap.min.js":1,"1":1,"sites\\all\\libraries\\superfish\\jquery.hoverIntent.minified.js":1,"sites\\all\\libraries\\supe
rfish\\sftouchscreen.js":1,"sites\\all\\libraries\\superfish\\sfsmallscreen.js":1,"sites\\all\\libraries\\superfish\\suppositi
on.js":1,"sites\\all\\libraries\\superfish\\superfish.js":1,"sites\\all\\libraries\\superfish\\supersubs.js":1,"sites\\all\\mod
ules\\superfish\\superfish.js":1,"sites\\all\\themes\\bootstrap-
business\\js\\jquery.browser.min.js":1},"css":{"modules\\system\\system.base.css":1,"modules\\system\\system.men
us.css":1,"modules\\system\\system.messages.css":1,"modules\\system\\system.theme.css":1,"modules\\aggregator\\

```

```

aggregator.css":1,"modules\comment\comment.css":1,"modules\field\theme\field.css":1,"sites\all\modules\mol
lom\mollom.css":1,"modules\node\node.css":1,"modules\search\search.css":1,"modules\user\user.css":1,"sites\
all\modules\views\css\views.css":1,"sites\all\modules\ctools\css\ctools.css":1,"\maxcdn.bootstrapcdn.com\
bootstrap/3.2.0/css/bootstrap.min.css":1,"sites\all\libraries\superfish\css\superfish.css":1,"sites\all\themes\bo
otstrap-business\css\style.css":1,"sites\all\themes\bootstrap-
business\color\colors.css":1,"sites\all\themes\bootstrap-business\css\local.css":1,"sites\all\themes\bootstrap-
business\css\ie8.css":1}},"urlIsAjaxTrusted":{"\licenses\bsd-
license.php":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u002
7fast\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"windo
w_width"},"smallscreen":{"mode":"window_width"},"addSelected":false,"menuClasses":false,"hyperlinkClasses":fa
lse,"title":"Navigation"},"supposition":true,"bgiframe":false,"supersubs":{"minWidth":"12","maxWidth":"27","extr
aWidth":1}}}}});
//--><![ ]>
</script>
</head>
<body class="html not-front not-logged-in no-sidebars page-node page-node- page-node-45 node-type-page" >
<div id="skip-link">
  <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>
  <div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>

<!-- #header-top -->
<div id="header-top" class="clearfix">
  <div class="container">

    <!-- #header-top-inside -->
    <div id="header-top-inside" class="clearfix">
      <div class="row">

        <div class="col-md-8">
          <!-- #header-top-left -->
          <div id="header-top-left" class="clearfix">
            <div class="region region-header-top-left">
              <div id="block-menu-secondary-menu" class="block block-menu clearfix">

<div class="content">
  <ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
<li class="leaf"><a href="/blog" title="">From the Board</a></li>
<li class="leaf"><a href="/contact" title="">Contact</a></li>
<li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&amp;id=2" title="">Donate</a></li>
</ul> </div>
</div>
</div>
</div>
<!-- EOF:#header-top-left -->

```

```

</div>

    <div class="col-md-4">
    <!-- #header-top-right -->
    <div id="header-top-right" class="clearfix">
        <div class="region region-header-top-right">
<div id="block-search-form" class="block block-search clearfix">

<div class="content">
    <form action="/licenses/bsd-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
    <h2 class="element-invisible">Search form</h2>
    <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) { this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) { this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
6xmGQUbpVd1U0SKdWfuJe4IuZO3jmemfJvi1vG55FT0" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
</div>
    </div>
    <!-- EOF:#header-top-right -->
</div>

    </div>
</div>
<!-- EOF: #header-top-inside -->

</div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
    <div class="container">

    <!-- #header-inside -->
    <div id="header-inside" class="clearfix">
        <div class="row">
            <div class="col-md-8">

```



```
        <div id="logo">
          <a href="/" title="Home" rel="home">  </a>
        </div>
```

```
        <div id="site-name">
          <a href="/" title="Home">Open Source Initiative</a>
        </div>
```

```
    </div>
```

```
    <div class="col-md-4">
```

```
      </div>
```

```
    </div>
```

```
  </div>
```

```
  <!-- EOF: #header-inside -->
```

```
</div>
```

```
</header>
```

```
<!-- EOF: #header -->
```

```
<!-- #main-navigation -->
```

```
<div id="main-navigation" class="clearfix">
```

```
  <div class="container">
```

```
    <!-- #main-navigation-inside -->
```

```
    <div id="main-navigation-inside" class="clearfix">
```

```
      <div class="row">
```

```
        <div class="col-md-12">
```

```
          <nav role="navigation">
```

```
            <div class="region region-navigation">
```

```
          <div id="block-superfish-1" class="block block-superfish clearfix">
```

```
    <div class="content">
```

```
      <ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
href="/history" title="History of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle
even sf-item-2 sf-depth-2 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a
href="/board" title="Board of Directors" class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1"
class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/docs/board-annotated" title="OSI Board -- With
Annotations" class="sf-depth-3">Board - Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-
depth-3 sf-no-children"><a href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-
```

3">Minutes<li id="menu-185-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Organization & Operations<li id="menu-95-1" class="middle even sf-item-4 sf-depth-3 sf-no-children">Articles of Incorporation<li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children">Board Elections<li id="menu-84-1" class="middle even sf-item-6 sf-depth-3 sf-no-children">Bylaws<li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children">Conflict of Interest<li id="menu-1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Trademark & Logo<li id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Trademark Guidelines<li id="menu-183-1" class="last even sf-item-2 sf-depth-3 sf-no-children">Logo Guidelines<li id="menu-126-1" class="last even sf-item-4 sf-depth-2 sf-no-children">Terms of Service<li id="menu-65-1" class="middle even sf-item-2 sf-depth-1 sf-total-children-5 sf-parent-children-3 sf-single-children-2 menuparent">Licenses<li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Open Source Definition<li id="menu-62-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">OSD - Annotated<li id="menu-77-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Licenses by Category<li id="menu-72-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Licenses by Name<li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">License Review Process<li id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Licence Proliferation<li id="menu-69-1" class="last even sf-item-2 sf-depth-3 sf-no-children">LP report to the Board<li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Open Standards<li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">The Open Standards Requirement<li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Open Standards Requirement Compliance<li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Open Standards Requirement Rationale<li id="menu-103-1" class="last even sf-item-4 sf-depth-3 sf-no-children">OSR Frequently Asked Questions<li id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent">Membership<li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Individuals<li id="menu-897-1" class="firstandlast odd

sf-item-1 sf-depth-3 sf-no-children">Join<li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent">Affiliates<li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Become an Affiliate<li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">List of Affiliates<li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children">Affiliate Criteria<li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children">Sponsors & Support<li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent">Community<li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Mailing lists<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of Conduct<li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Disclaimer for OSI Public Forums<li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children">Policy on Public Communications and Archives<li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Volunteers<li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Wiki<li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children">OSI Store<li id="menu-1840-1" class="middle odd sf-item-5 sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent">Resources<li id="menu-342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">FAQ<li id="menu-38-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">OSI Board Blog<li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Getting Help<li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Bibliography<li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children">Open Source Case for Business<li id="menu-1514-1" class="middle even sf-item-4 sf-depth-2 sf-no-children">Working Groups<li id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children">Open Source Education<li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">News & Events<li id="menu-1845-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">Newsletters<li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children">Events</div>

```

</div>
        </nav>
    </div>
</div>
</div>
<!-- EOF: #main-navigation-inside -->

</div>
</div>
<!-- EOF: #main-navigation -->

<!-- #page -->
<div id="page" class="clearfix">

<!-- #main-content -->
<div id="main-content">
    <div class="container">

        <!-- #messages-console -->
            <!-- EOF: #messages-console -->

        <div class="row">

            <section class="col-md-12">

                <!-- #main -->
                <div id="main" class="clearfix">

                    <!-- EOF:#content-wrapper -->
                    <div id="content-wrapper">

                        <h1 class="page-title">The 2-Clause BSD License</h1>

                        <!-- #tabs -->
                            <div class="tabs">
                                </div>
                            <!-- EOF: #tabs -->

                        <!-- #action links -->
                            <!-- EOF: #action links -->

```

```

<div class="region region-content">
  <div id="block-system-main" class="block block-system clearfix">

  <div class="content">
    <article id="node-45" class="node node-page clearfix">

    <div class="content">
      <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
      items"><div class="field-item even"><p style="font-weight:bold">
      SPDX short identifier: BSD-2-Clause
      </p>

      <div align="right">
        <button onclick="myFunction()">Further resources on the <b>2-clause BSD license</b></button>

      <p id="demo"></p>

      <script>
      <!--><![CDATA[// ><!--

      function myFunction() {
        var x;
        if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it
        does not endorse any content, contributors or license interpretations from these websites. Any links to these
        resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor
        any of the mentioned resources, but instead provides them as separate third-party resource to help inform your
        opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational
        purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions
        about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
          x = "<br><p>The following are other community resources that may be helpful:<br><br><a
          href=https://tldrlegal.com/license/bsd-2-clause-license-%28freebsd%29 style='font-weight: bold;'>The BSD 2-
          Clause License on TLDRLegal<br><a href=http://www.gnu.org/licenses/license-list.en.html>GNU License
          List<br><a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia
          License List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a
          href=choosealicense.com>Choosealicense";
        } else {
          x = " ";
        }
        document.getElementById("demo").innerHTML = x;
      }

      //--><![]]>
    </script></div>

```

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```

</div>
<!-- EOF:#main-content -->

</div>
<!-- EOF:#page -->

<footer id="subfooter" class="clearfix">
  <div class="container">

    <!-- #subfooter-inside -->
    <div id="subfooter-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <!-- #subfooter-left -->
          <div class="subfooter-area">

            <div class="region region-footer">
            <div id="block-block-11" class="block block-block clearfix">

<div class="content">
  <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"></a>

<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>

<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;"></a>

<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;"></a>

<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>

<script id="fbwiuwz">
<!--//--><![CDATA[// ><!--

```

```
(function(i){ var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src='//api.flattr.com/button/view/?uid=osi&u
rl=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.inse
rtBefore(f,s);})('fbwiuwz');
//--><![ ]>
</script></p>
</div>
```

```
<br /><div class="license" style="vertical-align: middle; display: inline-block;">
```

```
<p>
```

```
Opensource.org site content is licensed under a <a rel="license"
```

```
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License</a>
```

```
</p>
```

```
<p>
```

```
<a href=" ../ToS">Terms of Service</a>
```

```
</p>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div id="block-block-7" class="block block-block clearfix">
```

```
<div class="content">
```

```
<script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
```

```
<!--/--><![CDATA[// ><!--
```

```
//--><![ ]>
```

```
</script><script type="text/javascript">
```

```
<!--/--><![CDATA[// ><!--
```

```
_uacct = "UA-3916956-1";
```

```
urchinTracker();
```

```
//--><![ ]>
```

```
</script> </div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- EOF: #subfooter-left -->
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- EOF: #subfooter-inside -->
```

```
</div>
```

```
</footer>
```


<!-- EOF:#subfooter -->

</body>

</html>

3.603 MinLog 1.2

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3.604 minlog 1.3.0

3.605 mockito-all 1.9.5

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3.615 mysql-jdbc 5.1.6

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3.616 ncurses 6.0+20160213-1ubuntu1

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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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3.617 ncurses 6.0+20160213-1ubuntu1

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This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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3.618 neethi 3.0.2

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3.620 netty 4.0.21

3.621 netty 4.1.17

3.622 netty 4.1.16

3.623 netty 4.0.33

3.624 netty 4.1.22

3.625 netty-buffer 4.1.22

3.626 netty-buffer 4.1.17

3.627 netty-buffer 4.1.17.Final

3.628 netty-codec 4.1.17

3.629 netty-codec 4.1.22

3.630 netty-codec 4.1.17.Final

3.631 netty-codec-dns 4.1.22

3.632 netty-codec-http 4.1.22

3.633 netty-codec-http 4.1.17.Final

3.634 netty-codec-http 4.1.17

3.635 netty-codec-http2 4.1.17.Final

3.636 netty-codec-http2 4.1.17

3.637 netty-codec-socks 4.1.22

3.638 netty-codec-socks 4.1.17.Final

3.639 netty-codec-socks 4.1.17

3.640 netty-common 4.1.17.Final

3.641 netty-handler 4.1.17.Final

3.642 netty-handler 4.1.17

3.643 netty-handler 4.1.22

3.644 netty-handler-proxy 4.1.17

3.645 netty-handler-proxy 4.1.17.Final

3.646 netty-handler-proxy 4.1.22

3.647 netty-reactive-streams 2.0.0

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3.649 netty-resolver 4.1.17

3.650 netty-resolver 4.1.17.Final

3.651 netty-resolver-dns 4.1.22

3.652 netty-tcnative 2.0.9

3.653 netty-transport 4.1.22

3.654 netty-transport 4.1.17

3.655 netty-transport 4.1.17.Final

3.656 netty-transport-native-epoll 4.1.22

3.657 netty-transport-native-unix-common 4.1.22

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3.659 nimbus-jose-jwt 4.3.1

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3.670 ognl 2.7.3

3.671 okhttp 3.9.0

3.672 okhttp 3.9.0

3.673 okhttp 3.12.1

3.674 okio 1.13.0

3.675 okio 1.15.0

3.676 opencensus-api 0.10.0

3.677 opencensus-contrib-grpc-metrics 0.10.0

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*/

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/** Class for printing the version of this library. */
public final class Version {


```

/** Name of the library. */
private static final String NAME;

/** Library version. */
private static final String VERSION;

/** Library major version number. */
private static final int MAJOR_VERSION;

/** Library minor version number. */
private static final int MINOR_VERSION;

/** Library micro version number. */
private static final int MICRO_VERSION;

/** Constructor. */
private Version() {
}

/**
 * Main entry point to program.
 *
 * @param args command line arguments
 */
public static void main(String[] args) {
    System.out.println(NAME + " version " + VERSION);
}

/**
 * Gets the name of the library.
 *
 * @return name of the library
 */
public static String getName() {
    return NAME;
}

/**
 * Gets the version of the library.
 *
 * @return version of the library
 */
public static String getVersion() {
    return VERSION;
}

/**
 * Gets the major version number of the library.

```

```

*
* @return major version number of the library
*/
public static int getMajorVersion() {
    return MAJOR_VERSION;
}

/**
* Gets the minor version number of the library.
*
* @return minor version number of the library
*/
public static int getMinorVersion() {
    return MINOR_VERSION;
}

/**
* Gets the micro version number of the library.
*
* @return micro version number of the library
*/
public static int getMicroVersion() {
    return MICRO_VERSION;
}

static {
    Package pkg = Version.class.getPackage();
    NAME = pkg.getImplementationTitle().intern();
    VERSION = pkg.getImplementationVersion().intern();
    String[] versionParts = VERSION.split("\\.");
    MAJOR_VERSION = Integer.parseInt(versionParts[0]);
    MINOR_VERSION = Integer.parseInt(versionParts[1]);
    MICRO_VERSION = Integer.parseInt(versionParts[2]);
}
}

```

3.681 openssl 1.0.2n

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3.682 OpenSSL 1.0.2n

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3.683 opentracing-api 0.31.0

3.684 opentracing-noop 0.31.0

3.685 opentracing-spring-web 0.3.2

3.686 opentracing-spring-web-autoconfigure 0.3.2

3.687 opentracing-tracerresolver 0.1.4

3.688 opentracing-util 0.31.0

3.689 opentracing-web-servlet-filter 0.1.0

3.690 OpenWS 1.4.2-1

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*/

```

```
package org.opensaml.ws;
```

```

/** Class for printing the version of this library. */
public final class Version {

    /** Name of the library. */
    private static final String NAME;

    /** Library version. */
    private static final String VERSION;

    /** Library major version number. */
    private static final int MAJOR_VERSION;

    /** Library minor version number. */
    private static final int MINOR_VERSION;

    /** Library micro version number. */
    private static final int MICRO_VERSION;

    /** Constructor. */
    private Version() {
    }

    /**
     * Main entry point to program.
     *
     * @param args command line arguments
     */
    public static void main(String[] args) {
        Package pkg = Version.class.getPackage();
        System.out.println(NAME + " version " + VERSION);
    }
}

```

```

/**
 * Gets the name of the library.
 *
 * @return name of the library
 */
public static String getName() {
    return NAME;
}

/**
 * Gets the version of the library.
 *
 * @return version of the library
 */
public static String getVersion() {
    return VERSION;
}

/**
 * Gets the major version number of the library.
 *
 * @return major version number of the library
 */
public static int getMajorVersion() {
    return MAJOR_VERSION;
}

/**
 * Gets the minor version number of the library.
 *
 * @return minor version number of the library
 */
public static int getMinorVersion() {
    return MINOR_VERSION;
}

/**
 * Gets the micro version number of the library.
 *
 * @return micro version number of the library
 */
public static int getMicroVersion() {
    return MICRO_VERSION;
}

static {
    Package pkg = Version.class.getPackage();
    NAME = pkg.getImplementationTitle().intern();
}

```



```
VERSION = pkg.getImplementationVersion().intern();
String[] versionParts = VERSION.split(".");
MAJOR_VERSION = Integer.parseInt(versionParts[0]);
MINOR_VERSION = Integer.parseInt(versionParts[1]);
MICRO_VERSION = Integer.parseInt(versionParts[2]);
}
}
```

3.691 org.apache.servicemix.specs.jsr311-api-1.0 1.2.0

3.691.1 Available under license :

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3.692 org.apache.servicemix.specs.locator

1.2.0

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3.693 org.apache.tools.ant 1.7.0

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3.697 oro 2.0.8

3.698 osgi-resource-locator 1.0.1

3.698.1 Available under license :

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
```

```
<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

```
<style type="text/css">
```

```
li {display: block;}
```

```
</style>
```

```
</head>
```

```
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
```

```
<h3>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h3>
```

```
<ul>
```

```
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3.705 perf4j 0.9.14

3.706 persistence-api 1.0.0

3.707 person-directory-api 1.5.1

3.708 person-directory-impl 1.5.1

3.709 plexus-component-annotations 1.5.5

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ASM: a very small and fast Java bytecode manipulation framework

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3.730 rabbitmq 3.6.2

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Version 1.1

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3.741 Rhino 1.7R2

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3.746 scala-reflect 2.10.4

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/**

* jquery.layout.buttons 1.0

* \$Date: 2011-07-16 08:00:00 (Sat, 16 July 2011) \$

*

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* @dependancies: UI Layout 1.3.0.rc30.1 or higher

```

*
* @support: http://groups.google.com/group/jquery-ui-layout
*
* Docs: [ to come ]
* Tips: [ to come ]
*/
/**
* jquery.layout.browserZoom 1.0
* $Date: 2011-12-29 08:00:00 (Thu, 29 Dec 2011) $
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*
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*
* @support: http://groups.google.com/group/jquery-ui-layout
*
* @todo: Extend logic to handle other problematic zooming in browsers
* @todo: Add hotkey/mousewheel bindings to _instantly_ respond to these zoom event
*/
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3.747 scalap 2.10.0

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3.748 security-web 3.2.9

3.749 security-web 3.0.3

3.750 security-web 3.2.4

3.751 Servlet 3.0 1.0

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3.752 servlet-api 3.0.1

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3.753 servlet-api 2.5.0

3.754 shiro 1.2.2

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*/

```

```
package org.apache.shiro.authz.permission;
```

```
import static org.junit.Assert.assertTrue;
import org.junit.Test;
```

```
/**
```

```
*/
```

```
public class AllPermissionTest {
```

```
    @Test
```

```
    public void testNullArgument() {
        assertTrue(new AllPermission().implies(null));
    }

```

```
    @Test
```

```
    public void testNonNullArgument() {
        assertTrue(new AllPermission().implies(new AllPermission()));
    }

```

```
}
```

```
/*
```

```

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```

```

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*/
package org.apache.shiro.authz.permission;

import static org.junit.Assert.assertFalse;
import static org.junit.Assert.assertTrue;
import org.junit.Test;

/**
 * @since 0.9
 */
public class WildcardPermissionTest {

    @Test(expected = IllegalArgumentException.class)
    public void testNull() {
        new WildcardPermission(null);
    }

    @Test(expected = IllegalArgumentException.class)
    public void testEmpty() {
        new WildcardPermission("");
    }

    @Test(expected = IllegalArgumentException.class)
    public void testBlank() {
        new WildcardPermission(" ");
    }

    @Test(expected = IllegalArgumentException.class)
    public void testOnlyDelimiters() {
        new WildcardPermission("::,::,::");
    }

    @Test
    public void testNamed() {
        WildcardPermission p1, p2;

        // Case insensitive, same
        p1 = new WildcardPermission("something");
        p2 = new WildcardPermission("something");
        assertTrue(p1.implies(p2));
        assertTrue(p2.implies(p1));

        // Case insensitive, different case
        p1 = new WildcardPermission("something");
        p2 = new WildcardPermission("SOMETHING");
        assertTrue(p1.implies(p2));
    }
}

```

```

assertTrue(p2.implies(p1));

// Case insensitive, different word
p1 = new WildcardPermission("something");
p2 = new WildcardPermission("else");
assertFalse(p1.implies(p2));
assertFalse(p2.implies(p1));

// Case sensitive same
p1 = new WildcardPermission("BLAHBLAH", false);
p2 = new WildcardPermission("BLAHBLAH", false);
assertTrue(p1.implies(p2));
assertTrue(p2.implies(p1));

// Case sensitive, different case
p1 = new WildcardPermission("BLAHBLAH", false);
p2 = new WildcardPermission("bLAHBLAH", false);
assertTrue(p1.implies(p2));
assertTrue(p2.implies(p1));

// Case sensitive, different word
p1 = new WildcardPermission("BLAHBLAH", false);
p2 = new WildcardPermission("whatwhat", false);
assertFalse(p1.implies(p2));
assertFalse(p2.implies(p1));
}

@Test
public void testLists() {
    WildcardPermission p1, p2, p3;

    p1 = new WildcardPermission("one,two");
    p2 = new WildcardPermission("one");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));

    p1 = new WildcardPermission("one,two,three");
    p2 = new WildcardPermission("one,three");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));

    p1 = new WildcardPermission("one,two:one,two,three");
    p2 = new WildcardPermission("one:three");
    p3 = new WildcardPermission("one:two,three");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));
    assertTrue(p1.implies(p3));
}

```

```

assertFalse(p2.implies(p3));
assertTrue(p3.implies(p2));

p1 = new WildcardPermission("one,two,three:one,two,three:one,two");
p2 = new WildcardPermission("one:three:two");
assertTrue(p1.implies(p2));
assertFalse(p2.implies(p1));

p1 = new WildcardPermission("one");
p2 = new WildcardPermission("one:two,three,four");
p3 = new WildcardPermission("one:two,three,four:five:six:seven");
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p3));
assertFalse(p2.implies(p1));
assertFalse(p3.implies(p1));
assertTrue(p2.implies(p3));

}

@Test
public void testWildcards() {
    WildcardPermission p1, p2, p3, p4, p5, p6, p7, p8;

    p1 = new WildcardPermission("*");
    p2 = new WildcardPermission("one");
    p3 = new WildcardPermission("one:two");
    p4 = new WildcardPermission("one,two:three,four");
    p5 = new WildcardPermission("one,two:three,four,five:six:seven,eight");
    assertTrue(p1.implies(p2));
    assertTrue(p1.implies(p3));
    assertTrue(p1.implies(p4));
    assertTrue(p1.implies(p5));

    p1 = new WildcardPermission("newsletter:*");
    p2 = new WildcardPermission("newsletter:read");
    p3 = new WildcardPermission("newsletter:read,write");
    p4 = new WildcardPermission("newsletter:*");
    p5 = new WildcardPermission("newsletter:*:*");
    p6 = new WildcardPermission("newsletter:*:read");
    p7 = new WildcardPermission("newsletter:write:*");
    p8 = new WildcardPermission("newsletter:read,write:*");
    assertTrue(p1.implies(p2));
    assertTrue(p1.implies(p3));
    assertTrue(p1.implies(p4));
    assertTrue(p1.implies(p5));
    assertTrue(p1.implies(p6));
    assertTrue(p1.implies(p7));
    assertTrue(p1.implies(p8));
}

```

```

p1 = new WildcardPermission("newsletter:*:*");
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p3));
assertTrue(p1.implies(p4));
assertTrue(p1.implies(p5));
assertTrue(p1.implies(p6));
assertTrue(p1.implies(p7));
assertTrue(p1.implies(p8));

p1 = new WildcardPermission("newsletter:*:*");
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p3));
assertTrue(p1.implies(p4));
assertTrue(p1.implies(p5));
assertTrue(p1.implies(p6));
assertTrue(p1.implies(p7));
assertTrue(p1.implies(p8));

p1 = new WildcardPermission("newsletter:*:read");
p2 = new WildcardPermission("newsletter:123:read");
p3 = new WildcardPermission("newsletter:123,456:read,write");
p4 = new WildcardPermission("newsletter:read");
p5 = new WildcardPermission("newsletter:read,write");
p6 = new WildcardPermission("newsletter:123:read:write");
assertTrue(p1.implies(p2));
assertFalse(p1.implies(p3));
assertFalse(p1.implies(p4));
assertFalse(p1.implies(p5));
assertTrue(p1.implies(p6));

p1 = new WildcardPermission("newsletter:*:read:*");
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p6));

```

```

}

```

```

}

```

```

/*

```

```

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```



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* specific language governing permissions and limitations
* under the License.
*/
package org.apache.shiro.authz;

/**
* A Permission represents the ability to perform an action or access a resource. A Permission is the most
* granular, or atomic, unit in a system's security policy and is the cornerstone upon which fine-grained security
* models are built.
* <p/>
* It is important to understand a Permission instance only represents functionality or access - it does not grant it.
* Granting access to an application functionality or a particular resource is done by the application's security
* configuration, typically by assigning Permissions to users, roles and/or groups.
* <p/>
* Most typical systems are what the Shiro team calls role-based in nature, where a role represents
* common behavior for certain user types. For example, a system might have an Administrator role, a
* User or Guest roles, etc.
* <p/>
* But if you have a dynamic security model, where roles can be created and deleted at runtime, you can't hard-code
* role names in your code. In this environment, roles themselves aren't aren't very useful. What matters is what
* permissions are assigned to these roles.
* <p/>
* Under this paradigm, permissions are immutable and reflect an application's raw functionality
* (opening files, accessing a web URL, creating users, etc). This is what allows a system's security policy
* to be dynamic: because Permissions represent raw functionality and only change when the application's
* source code changes, they are immutable at runtime - they represent 'what' the system can do. Roles, users, and
* groups are the 'who' of the application. Determining 'who' can do 'what' then becomes a simple exercise of
* associating Permissions to roles, users, and groups in some way.
* <p/>
* Most applications do this by associating a named role with permissions (i.e. a role 'has a' collection of
* Permissions) and then associate users with roles (i.e. a user 'has a' collection of roles) so that by transitive
* association, the user 'has' the permissions in their roles. There are numerous variations on this theme
* (permissions assigned directly to users, or assigned to groups, and users added to groups and these groups in turn
* have roles, etc, etc). When employing a permission-based security model instead of a role-based one, users, roles,
* and groups can all be created, configured and/or deleted at runtime. This enables an extremely powerful security
* model.
* <p/>
* A benefit to Shiro is that, although it assumes most systems are based on these types of static role or
* dynamic role w/ permission schemes, it does not require a system to model their security data this way - all
* Permission checks are relegated to { @link org.apache.shiro.realm.Realm } implementations, and only those
* implementations really determine how a user 'has' a permission or not. The Realm could use the semantics
described

```

```

* here, or it could utilize some other mechanism entirely - it is always up to the application developer.
* <p/>
* Shiro provides a very powerful default implementation of this interface in the form of the
* { @link org.apache.shiro.authz.permission.WildcardPermission WildcardPermission }. We highly recommend that
you
* investigate this class before trying to implement your own <code>Permission</code>s.
*
* @see org.apache.shiro.authz.permission.WildcardPermission WildcardPermission
* @since 0.2
*/
public interface Permission {

    /**
     * Returns { @code true } if this current instance <em>implies</em> all the functionality and/or resource access
     * described by the specified { @code Permission } argument, { @code false } otherwise.
     * <p/>
     * <p>That is, this current instance must be exactly equal to or a <em>superset</em> of the functionality
     * and/or resource access described by the given { @code Permission } argument. Yet another way of saying this
     * would be:
     * <p/>
     * <p>If "permission1 implies permission2", i.e. <code>permission1.implies(permission2)</code> ,
     * then any Subject granted { @code permission1 } would have ability greater than or equal to that defined by
     * { @code permission2 }.
     *
     * @param p the permission to check for behavior/functionality comparison.
     * @return { @code true } if this current instance <em>implies</em> all the functionality and/or resource access
     *         described by the specified { @code Permission } argument, { @code false } otherwise.
     */
    boolean implies(Permission p);
}
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* specific language governing permissions and limitations
* under the License.
*/

```

```

/**
 * Support and default implementations for Shiro's { @link org.apache.shiro.authz.Permission Permission }
 * interface.
 * <p/>
 * Also note the { @link org.apache.shiro.authz.permission.PermissionResolver PermissionResolver } interface, as
 * it plays an important part in many of Shiro's { @link org.apache.shiro.realm.Realm Realm } implementations
 * and AOP support.
 */
package org.apache.shiro.authz.permission;

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 * specific language governing permissions and limitations
 * under the License.
 */
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

/**
 * A { @code PermissionResolver } resolves a String value and converts it into a
 * { @link org.apache.shiro.authz.Permission Permission } instance.
 * <p/>
 * The default { @link WildcardPermissionResolver } should be
 * suitable for most purposes, which constructs { @link WildcardPermission } objects.
 * However, any resolver may be configured if an application wishes to use different
 * { @link org.apache.shiro.authz.Permission } implementations.
 * <p/>
 * A { @code PermissionResolver } is used by many Shiro components such as annotations, property file
 * configuration, URL configuration, etc. It is useful whenever a String representation of a permission is specified
 * and that String needs to be converted to a Permission instance before executing a security check.
 * <p/>
 * Shiro chooses to support { @link WildcardPermission Wildcardpermission }s by default in almost all components
 * and
 * we do that in the form of the { @link WildcardPermissionResolver WildcardPermissionResolver }. One of the
 * nice

```

```

* things about {@code WildcardPermission}s being supported by default is that it makes it very easy to
* store complex permissions in the database - and also makes it very easy to represent permissions in JSP files,
* annotations, etc., where a simple string representation is useful.
* <p/>
* Although this happens to be the Shiro default, you are of course free to provide custom
* String-to-Permission conversion by providing Shiro components any instance of this interface.
*
* @see org.apache.shiro.authz.ModularRealmAuthorizer#setPermissionResolver(PermissionResolver)
ModularRealmAuthorizer.setPermissionResolver
* @see org.apache.shiro.realm.AuthorizingRealm#setPermissionResolver(PermissionResolver)
AuthorizingRealm.setPermissionResolver
* @see PermissionResolverAware PermissionResolverAware
* @since 0.9
*/
public interface PermissionResolver {

    /**
     * Resolves a Permission based on the given String representation.
     *
     * @param permissionString the String representation of a permission.
     * @return A Permission object that can be used internally to determine a subject's permissions.
     * @throws InvalidPermissionStringException
     *         if the permission string is not valid for this resolver.
     */
    Permission resolvePermission(String permissionString);

}
/*
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* specific language governing permissions and limitations
* under the License.
*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

```

```
import org.apache.shiro.util.CollectionUtils;
```

```
import java.io.Serializable;
```

```
import java.util.ArrayList;
```

```
import java.util.LinkedHashSet;
```

```
import java.util.List;
```

```
import java.util.Set;
```

```
/**
```

```
* A WildcardPermission is a very flexible permission construct supporting multiple levels of  
* permission matching. However, most people will probably follow some standard conventions as explained below.
```

```
* <p/>
```

```
* <h3>Simple Usage</h3>
```

```
* <p/>
```

```
* In the simplest form, WildcardPermission can be used as a simple permission string. You could  
grant a
```

```
* user an "editNewsletter" permission and then check to see if the user has the editNewsletter
```

```
* permission by calling
```

```
* <p/>
```

```
* subject.isPermitted("editNewsletter")
```

```
* <p/>
```

```
* This is (mostly) equivalent to
```

```
* <p/>
```

```
* subject.isPermitted( new WildcardPermission("editNewsletter") )
```

```
* <p/>
```

```
* but more on that later.
```

```
* <p/>
```

```
* The simple permission string may work for simple applications, but it requires you to have permissions like
```

```
* "viewNewsletter", "deleteNewsletter",
```

```
* "createNewsletter", etc. You can also grant a user "*" permissions
```

```
* using the wildcard character (giving this class its name), which means they have all permissions. But
```

```
* using this approach there's no way to just say a user has "all newsletter permissions".
```

```
* <p/>
```

```
* For this reason, WildcardPermission supports multiple levels of permissioning.
```

```
* <p/>
```

```
* <h3>Multiple Levels</h3>
```

```
* <p/>
```

```
* WildcardPermission also supports the concept of multiple levels. For example, you could
```

```
* restructure the previous simple example by granting a user the permission "newsletter:edit".
```

```
* The colon in this example is a special character used by the WildcardPermission that delimits the
```

```
* next token in the permission.
```

```
* <p/>
```

```
* In this example, the first token is the domain that is being operated on
```

```
* and the second token is the action being performed. Each level can contain multiple values. So you
```

```
* could simply grant a user the permission "newsletter:view,edit,create" which gives them
```

```
* access to perform view, edit, and create actions in the
```

```
newsletter
```

```
* domain. Then you could check to see if the user has the "newsletter:create"
```

* permission by calling

```
* <p/>
* <code>subject.isPermitted("newsletter:create")</code>
* <p/>
* (which would return true).
* <p/>
* In addition to granting multiple permissions via a single string, you can grant all permission for a particular
* level. So if you wanted to grant a user all actions in the <code>newsletter</code> domain, you could simply give
* them <code>"newsletter:*"</code>. Now, any permission check for <code>"newsletter:XXX"</code>
* will return <code>true</code>. It is also possible to use the wildcard token at the domain level (or both): so you
* could grant a user the <code>"view"</code> action across all domains <code>"*:view"</code>.
```

* <p/>

* <h3>Instance-level Access Control</h3>

* <p/>

* Another common usage of the <code>WildcardPermission</code> is to model instance-level Access Control Lists.

* In this scenario you use three tokens - the first is the domain, the second is the action, and the third is the instance you are acting on.

* <p/>

* So for example you could grant a user <code>"newsletter:edit:12,13,18"</code>. In this example, assume that the third token is the system's ID of the newsletter. That would allow the user to edit newsletters <code>12</code>, <code>13</code>, and <code>18</code>. This is an extremely powerful way to express permissions,

* since you can now say things like <code>"newsletter*:13"</code> (grant a user all actions for newsletter <code>13</code>), <code>"newsletter:view,create,edit:*"</code> (allow the user to <code>view</code>, <code>create</code>, or <code>edit</code> any newsletter), or <code>"newsletter*:*</code> (allow the user to perform any action on any newsletter).

* <p/>

* To perform checks against these instance-level permissions, the application should include the instance ID in the permission check like so:

* <p/>

```
* <code>subject.isPermitted( "newsletter:edit:13" )</code>
* <p/>
```

* There is no limit to the number of tokens that can be used, so it is up to your imagination in terms of ways that this could be used in your application. However, the Shiro team likes to standardize some common usages shown above to help people get started and provide consistency in the Shiro community.

*
* @since 0.9
*/

```
public class WildcardPermission implements Permission, Serializable {
```

```
    //TODO - JavaDoc methods
```

```
    /*-----
```

```
    |           C O N S T A N T S           |
```

```
    =====*/
```

```
    protected static final String WILDCARD_TOKEN = "*";
```

```
    protected static final String PART_DIVIDER_TOKEN = ":";
```

```

protected static final String SUBPART_DIVIDER_TOKEN = ",";
protected static final boolean DEFAULT_CASE_SENSITIVE = false;

/*-----
|  INSTANCE VARIABLES  |
=====*/
private List<Set<String>> parts;

/*-----
|  CONSTRUCTORS      |
=====*/
/**
 * Default no-arg constructor for subclasses only - end-user developers instantiating Permission instances must
 * provide a wildcard string at a minimum, since Permission instances are immutable once instantiated.
 * <p/>
 * Note that the WildcardPermission class is very robust and typically subclasses are not necessary unless you
 * wish to create type-safe Permission objects that would be used in your application, such as perhaps a
 * {@code UserPermission}, {@code SystemPermission}, {@code PrinterPermission}, etc. If you want such
type-safe
 * permission usage, consider subclassing the {@link DomainPermission DomainPermission} class for your
needs.
 */
protected WildcardPermission() {
}

public WildcardPermission(String wildcardString) {
    this(wildcardString, DEFAULT_CASE_SENSITIVE);
}

public WildcardPermission(String wildcardString, boolean caseSensitive) {
    setParts(wildcardString, caseSensitive);
}

protected void setParts(String wildcardString) {
    setParts(wildcardString, DEFAULT_CASE_SENSITIVE);
}

protected void setParts(String wildcardString, boolean caseSensitive) {
    if (wildcardString == null || wildcardString.trim().length() == 0) {
        throw new IllegalArgumentException("Wildcard string cannot be null or empty. Make sure permission
strings are properly formatted.");
    }

    wildcardString = wildcardString.trim();

    List<String> parts = CollectionUtils.asList(wildcardString.split(PART_DIVIDER_TOKEN));

    this.parts = new ArrayList<Set<String>>();

```

```

    for (String part : parts) {
        Set<String> subparts = CollectionUtils.asSet(part.split(SUBPART_DIVIDER_TOKEN));
        if (!caseSensitive) {
            subparts = lowercase(subparts);
        }
        if (subparts.isEmpty()) {
            throw new IllegalArgumentException("Wildcard string cannot contain parts with only dividers. Make sure
permission strings are properly formatted.");
        }
        this.parts.add(subparts);
    }

    if (this.parts.isEmpty()) {
        throw new IllegalArgumentException("Wildcard string cannot contain only dividers. Make sure permission
strings are properly formatted.");
    }
}

private Set<String> lowercase(Set<String> subparts) {
    Set<String> lowerCasedSubparts = new LinkedHashSet<String>(subparts.size());
    for (String subpart : subparts) {
        lowerCasedSubparts.add(subpart.toLowerCase());
    }
    return lowerCasedSubparts;
}

/*-----
| ACCESSORS / MODIFIERS |
=====*/
protected List<Set<String>> getParts() {
    return this.parts;
}

/*-----
|     METHODS     |
=====*/

public boolean implies(Permission p) {
    // By default only supports comparisons with other WildcardPermissions
    if (!(p instanceof WildcardPermission)) {
        return false;
    }

    WildcardPermission wp = (WildcardPermission) p;

    List<Set<String>> otherParts = wp.getParts();

    int i = 0;

```



```

for (Set<String> otherPart : otherParts) {
    // If this permission has less parts than the other permission, everything after the number of parts contained
    // in this permission is automatically implied, so return true
    if (getParts().size() - 1 < i) {
        return true;
    } else {
        Set<String> part = getParts().get(i);
        if (!part.contains(WILDCARD_TOKEN) && !part.containsAll(otherPart)) {
            return false;
        }
        i++;
    }
}

// If this permission has more parts than the other parts, only imply it if all of the other parts are wildcards
for (; i < getParts().size(); i++) {
    Set<String> part = getParts().get(i);
    if (!part.contains(WILDCARD_TOKEN)) {
        return false;
    }
}

return true;
}

public String toString() {
    StringBuilder buffer = new StringBuilder();
    for (Set<String> part : parts) {
        if (buffer.length() > 0) {
            buffer.append(":");
        }
        buffer.append(part);
    }
    return buffer.toString();
}

public boolean equals(Object o) {
    if (o instanceof WildcardPermission) {
        WildcardPermission wp = (WildcardPermission) o;
        return parts.equals(wp.parts);
    }
    return false;
}

public int hashCode() {
    return parts.hashCode();
}

```

```

}
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 */
package org.apache.shiro.authz.permission;

/**
 * Interface implemented by a component that wishes to use any application-configured
 * <tt>RolePermissionResolver</tt> that
 * might already exist instead of potentially creating one itself.
 *
 * <p>This is mostly implemented by { @link org.apache.shiro.authz.Authorizer Authorizer } and
 * { @link org.apache.shiro.realm.Realm Realm } implementations since they
 * are the ones performing permission checks and need to know how to resolve Strings into
 * { @link org.apache.shiro.authz.Permission Permission } instances.
 *
 * @since 1.0
 */
public interface RolePermissionResolverAware {

    /**
     * Sets the specified <tt>RolePermissionResolver</tt> on this instance.
     *
     * @param rpr the <tt>RolePermissionResolver</tt> being set.
     */
    public void setRolePermissionResolver(RolePermissionResolver rpr);
}
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*/
package org.apache.shiro.authz.permission;

import java.io.Serializable;

import org.apache.shiro.authz.Permission;

/**
 * An all AllPermission instance is one that always implies any other permission; that is, its
 * { @link #implies implies } method always returns <tt>true</tt>.
 *
 * <p>You should be very careful about the users, roles, and/or groups to which this permission is assigned since
 * those respective entities will have the ability to do anything. As such, an instance of this class
 * is typically only assigned only to "root" or "administrator" users or roles.
 *
 * @since 0.1
 */
public class AllPermission implements Permission, Serializable {

    /**
     * Always returns <tt>true</tt>, indicating any Subject granted this permission can do anything.
     *
     * @param p the Permission to check for implies logic.
     * @return <tt>true</tt> always, indicating any Subject grated this permission can do anything.
     */
    public boolean implies(Permission p) {
        return true;
    }
}

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```

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* under the License.
*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

/**
 * <tt>PermissionResolver</tt> implementation that returns a new { @link WildcardPermission
 * WildcardPermission}
 * based on the input string.
 *
 * @since 0.9
 */
public class WildcardPermissionResolver implements PermissionResolver {

    /**
     * Returns a new { @link WildcardPermission WildcardPermission} instance constructed based on the specified
     * <tt>permissionString</tt>.
     *
     * @param permissionString the permission string to convert to a { @link Permission Permission} instance.
     * @return a new { @link WildcardPermission WildcardPermission} instance constructed based on the specified
     * <tt>permissionString</tt>
     */
    public Permission resolvePermission(String permissionString) {
        return new WildcardPermission(permissionString);
    }
}

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*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.ShiroException;

/**
 * Thrown by { @link PermissionResolver#resolvePermission(String)} when the String being parsed is not
 * valid for that resolver.
 *
 * @since 0.9
 */
public class InvalidPermissionStringException extends ShiroException
{

    private String permissionString;

    /**
     * Constructs a new exception with the given message and permission string.
     *
     * @param message the exception message.
     * @param permissionString the invalid permission string.
     */
    public InvalidPermissionStringException(String message, String permissionString) {
        super(message);
        this.permissionString = permissionString;
    }

    /**
     * Returns the permission string that was invalid and caused this exception to
     * be thrown.
     *
     * @return the permission string.
     */
    public String getPermissionString() {
        return this.permissionString;
    }

}

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*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

import java.util.Collection;

/**
 * A RolePermissionResolver resolves a String value and converts it into a Collection of
 * {@link org.apache.shiro.authz.Permission} instances.
 * <p/>
 * In some cases a {@link org.apache.shiro.realm.Realm} may only be able to return a list of roles. This
 * component allows an application to resolve the roles into permissions.
 *
 */
public interface RolePermissionResolver {

    /**
     * Resolves a Collection of Permissions based on the given String representation.
     *
     * @param roleString the String representation of a role name to resolve.
     * @return a Collection of Permissions based on the given String representation.
     */
    Collection<Permission> resolvePermissionsInRole(String roleString);

}
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*/
package org.apache.shiro.authz.permission;

/**
 * Interface implemented by a component that wishes to use any application-configured <tt>PermissionResolver</tt>
 * that
 * might already exist instead of potentially creating one itself.
 *
 * <p>This is mostly implemented by { @link org.apache.shiro.authz.Authorizer Authorizer } and
 * { @link org.apache.shiro.realm.Realm Realm } implementations since they
 * are the ones performing permission checks and need to know how to resolve Strings into
 * { @link org.apache.shiro.authz.Permission Permission } instances.
 *
 * @since 0.9
 */
public interface PermissionResolverAware {

    /**
     * Sets the specified <tt>PermissionResolver</tt> on this instance.
     *
     * @param pr the <tt>PermissionResolver</tt> being set.
     */
    public void setPermissionResolver(PermissionResolver pr);
}

```

3.755 sigar 1.6.4

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Information: ftp://vic.cc.purdue.edu/pub/tools/unix/solaris/get_mib2/

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- getline by Chris Thewalt -

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3.756 slf4j 1.7.7

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1" />
```

```
<title>SLF4J License</title>
```

```
<link rel="stylesheet" type="text/css" media="screen" href="css/site.css" />
```

```
</head>
<body>
  <script type="text/javascript">prefix=";</script>

  <script src="templates/header.js" type="text/javascript"></script>
  <div id="left">
    <script src="templates/left.js" type="text/javascript"></script>
  </div>
  <div id="content">
```

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</body>

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3.759 slf4j-api 1.7.21

3.760 slf4j-log4j12 1.6.1

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3.761 slf4j-simple 1.7.12

3.762 smack-debug-slf4j 4.1.0

3.763 smack-extensions 4.1.0

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3.772 snmp4j 2.1.0

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3.783 spring-aspects 4.3.19

3.784 spring-binding 2.5.1

3.785 spring-boot 1.5.12

3.786 spring-boot-autoconfigure 1.5.12

3.787 spring-bridge 2.5.0

3.788 spring-context-support 4.3.19

3.789 spring-data 1.1.0

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Spring Data JPA 1.0

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3.790 spring-data-redis 1.1.0

3.791 spring-instrument 4.3.19

3.792 spring-js 2.3.0

3.793 spring-js-resources 2.3.0

3.794 spring-ldap 1.3.1

3.795 spring-ldap-core-tiger 1.3.1

3.796 spring-plugin 1.2.0

3.797 spring-plugin-core 1.2.0

3.798 spring-rabbit 1.2.0

3.799 spring-retry 1.0.3

3.800 spring-security-acl 3.2.9

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 */
package org.springframework.security.acls.model;

import java.io.Serializable;
```

```

/**
 * Represents a permission granted to a <tt>Sid</tt> for a given domain object.
 *
 * @author Ben Alex
 */
public interface Permission extends Serializable {
    //~ Static fields/initializers
    =====
    ===

    char RESERVED_ON = '~';
    char RESERVED_OFF = '.';
    String THIRTY_TWO_RESERVED_OFF = ".....";

    //~ Methods
    =====
    =====

    /**
     * Returns the bits that represents the permission.
     *
     * @return the bits that represent the permission
     */
    int getMask();

    /**
     * Returns a 32-character long bit pattern <code>String</code> representing this permission.
     * <p>
     * Implementations are free to format the pattern as they see fit, although under no circumstances may
     * { @link #RESERVED_OFF } or { @link #RESERVED_ON } be used within the pattern. An exemption is in the
     case of
     * { @link #RESERVED_OFF } which is used to denote a bit that is off (clear).
     * Implementations may also elect to use { @link #RESERVED_ON } internally for computation purposes,
     * although this method may not return any <code>String</code> containing { @link #RESERVED_ON }.
     * <p>
     * The returned String must be 32 characters in length.
     * <p>
     * This method is only used for user interface and logging purposes. It is not used in any permission
     * calculations. Therefore, duplication of characters within the output is permitted.
     *
     * @return a 32-character bit pattern
     */
    String getPattern();
}

```

3.801 spring-security-acl 3.2.4

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 */
package org.springframework.security.acls.model;

import java.io.Serializable;

/**
 * Represents a permission granted to a <tt>Sid</tt> for a given domain object.
 *
 * @author Ben Alex
 */
public interface Permission extends Serializable {
    //~ Static fields/initializers
    =====
    ===

    char RESERVED_ON = '~';
    char RESERVED_OFF = '!';
    String THIRTY_TWO_RESERVED_OFF = ".....";

    //~ Methods
    =====
    =====

    /**
     * Returns the bits that represents the permission.
     *
     * @return the bits that represent the permission
     */
    int getMask();

    /**
```

```

* Returns a 32-character long bit pattern String representing this permission.
* <p>
* Implementations are free to format the pattern as they see fit, although under no circumstances may
* {@link #RESERVED_OFF} or {@link #RESERVED_ON} be used within the pattern. An exemption is in the
case of
* {@link #RESERVED_OFF} which is used to denote a bit that is off (clear).
* Implementations may also elect to use {@link #RESERVED_ON} internally for computation purposes,
* although this method may not return any String containing {@link #RESERVED_ON}.
* <p>
* The returned String must be 32 characters in length.
* <p>
* This method is only used for user interface and logging purposes. It is not used in any permission
* calculations. Therefore, duplication of characters within the output is permitted.
*
* @return a 32-character bit pattern
*/
String getPattern();
}

```

3.802 spring-security-cas 3.2.4

3.803 spring-security-config 3.2.4

3.804 spring-security-config 3.0.3

3.805 spring-security-config 3.2.9

3.806 spring-security-taglibs 3.2.4

3.807 spring-security-taglibs 3.2.9

3.808 spring-web 3.2.9

3.809 spring-web 3.2.8

3.810 spring-web 3.1.1

3.811 spring-webflow 2.3.0

3.812 spring-webmvc-portlet 4.3.19

3.813 spring_framework 4.3.19

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3.815 sshd-core 1.1.0

3.816 stax 1.0.1

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*/

3.818 stax-api 1.0-2

3.819 stax-api 1.0.1

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```

<thirdparty-licenses>
  <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'
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    version='1.44.0'
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    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. Used 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'>

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    <jar name='byteman.jar' />
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    <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'
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    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>

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<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>  
</thirdparty-licenses>  
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```

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

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3.833 TestNG 6.0

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3.834 testng 6.0

3.835 thumbnailator 0.4.8

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[3] <http://www.microsoft.com/interop/osp/>

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SLF4J library (slf4j-api, slf4j-log4j12)

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3.855 wagon-provider-api 1.0-beta-2

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*

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3.860 woodstox-core-asl 4.4.1

3.861 wsdl4j 1.6.3

3.862 wsdl4j 1.5.1

3.863 wsdl4j 1.6.2

3.864 Wss4j 1.6.9

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3.865 wstx-asl 3.2.9

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<head>
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<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<style type='text/css'>
  body { background: white; color: black; }
</style>
</head>

<body>
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3.880 xmlbeans 2.4.0

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*/

```
package zipcompare;

import java.util.zip.ZipFile;
import java.util.zip.ZipEntry;
import java.util.*;
import java.io.IOException;
import java.io.InputStream;

public class ZipCompare
{
    public static void main(String[] args)
    {
        if (args.length != 2)
        {
            System.out.println("Usage: zipcompare [file1] [file2]");
            System.exit(1);
        }

        ZipFile file1;
        try { file1 = new ZipFile(args[0]); }
        catch (IOException e) { System.out.println("Could not open zip file " + args[0] + ": " + e); System.exit(1);
return; }

        ZipFile file2;
        try { file2 = new ZipFile(args[1]); }
        catch (IOException e) { System.out.println("Could not open zip file " + args[1] + ": " + e); System.exit(1);
return; }

        System.out.println("Comparing " + args[0] + " with " + args[1] + ":");

        Set set1 = new LinkedHashSet();
        for (Enumeration e = file1.entries(); e.hasMoreElements(); )
            set1.add(((ZipEntry)e.nextElement()).getName());

        Set set2 = new LinkedHashSet();
        for (Enumeration e = file2.entries(); e.hasMoreElements(); )
            set2.add(((ZipEntry)e.nextElement()).getName());

        int errcount = 0;
        int filecount = 0;
        for (Iterator i = set1.iterator(); i.hasNext(); )
```

```

{
    String name = (String)i.next();
    if (!set2.contains(name))
    {
        System.out.println(name + " not found in " + args[1]);
        errcount += 1;
        continue;
    }
    try
    {
        set2.remove(name);
        if (!streamsEqual(file1.getInputStream(file1.getEntry(name)), file2.getInputStream(file2.getEntry(name))))
        {
            System.out.println(name + " does not match");
            errcount += 1;
            continue;
        }
    }
    catch (Exception e)
    {
        System.out.println(name + ": IO Error " + e);
        e.printStackTrace();
        errcount += 1;
        continue;
    }
    filecount += 1;
}
for (Iterator i = set2.iterator(); i.hasNext(); )
{
    String name = (String)i.next();
    System.out.println(name + " not found in " + args[0]);
    errcount += 1;
}
System.out.println(filecount + " entries matched");
if (errcount > 0)
{
    System.out.println(errcount + " entries did not match");
    System.exit(1);
}
System.exit(0);
}

```

```

static boolean streamsEqual(InputStream stream1, InputStream stream2) throws IOException
{
    byte[] buf1 = new byte[4096];
    byte[] buf2 = new byte[4096];
    boolean done1 = false;
    boolean done2 = false;

```

```

try
{
while (!done1)
{
    int off1 = 0;
    int off2 = 0;

    while (off1 < buf1.length)
    {
        int count = stream1.read(buf1, off1, buf1.length - off1);
        if (count < 0)
        {
            done1 = true;
            break;
        }
        off1 += count;
    }
    while (off2 < buf2.length)
    {
        int count = stream2.read(buf2, off2, buf2.length - off2);
        if (count < 0)
        {
            done2 = true;
            break;
        }
        off2 += count;
    }
    if (off1 != off2 || done1 != done2)
        return false;
    for (int i = 0; i < off1; i++)
    {
        if (buf1[i] != buf2[i])
            return false;
    }
}
return true;
}
finally { stream1.close(); stream2.close(); }
}
}

```

3.881 XmlBeans 2.6.0

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3.882 xmldsig 1.0

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3.883 xmlpull 1.1.3.1

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3.884 xmlschema 2.2.1

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3.885 XmlSchema 1.3.2

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```

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*/

package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for the restriction of simpleType elements. Represents the World
 * Wide Web Consortium (W3C) restriction element for simple types.
 */

public class XmlSchemaSimpleTypeRestriction extends XmlSchemaSimpleTypeContent {

    /**
     * Creates new XmlSchemaSimpleTypeRestriction
     */
    public XmlSchemaSimpleTypeRestriction() {
        facets = new XmlSchemaObjectCollection();
    }

    XmlSchemaSimpleType baseType;

    public XmlSchemaSimpleType getBaseType() {
        return this.baseType;
    }

    public void setBaseType(XmlSchemaSimpleType baseType) {
        this.baseType = baseType;
    }

    QName baseTypeName;

    public QName getBaseTypeName() {
        return this.baseTypeName;
    }

    public void setBaseTypeName(QName baseTypeName) {
        this.baseTypeName = baseTypeName;
    }

    XmlSchemaObjectCollection facets;// = new XmlSchemaObjectCollection();

    public XmlSchemaObjectCollection getFacets() {
        return this.facets;
    }
}

```

```

public String toString(String prefix, int tab) {
    String xml = new String();

    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    for (int i = 0; i < tab; i++)
        xml += "\t";

    xml += "<" + prefix + "restriction ";

    if (baseTypeName != null) {
        xml += "base=\"" + baseTypeName + "\">\n";
    } else {
        xml += ">\n";
        // inline def
        xml += baseType.toString(prefix, (tab + 1));
    }

    xml += facets.toString(prefix, (tab + 1));
    for (int i = 0; i < tab; i++)
        xml += "\t";
    xml += "</" + prefix + "restriction>\n";

    return xml;
}

}
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```

```

package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for the union of simpleType elements. Defines a simpleType element
 * as a list of values of a specified data type. Represents the World
 * Wide Web Consortium (W3C) union element.
 */

public class XmlSchemaSimpleTypeUnion extends XmlSchemaSimpleTypeContent {

    XmlSchemaObjectCollection baseTypes;
    String memberTypesSource;
    QName[] memberTypesQNames;

    public XmlSchemaSimpleTypeUnion() {
        baseTypes = new XmlSchemaObjectCollection();
    }

    public XmlSchemaObjectCollection getBaseTypes() {
        return this.baseTypes;
    }

    public void setMemberTypesSource(String memberTypesSources) {
        this.memberTypesSource = memberTypesSources;
    }

    public String getMemberTypesSource() {
        return this.memberTypesSource;
    }

    public QName[] getMemberTypesQNames() {
        return this.memberTypesQNames;
    }

}

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*/

```

```
package org.apache.ws.commons.schema;
```

```
import javax.xml.namespace.QName;
```

```

/**
 * Class for complex types with a complex content model that are derived
 * by restriction. Restricts the contents of the complex type to a subset
 * of the inherited complex type. Represents the World Wide Web Consortium
 * (W3C) restriction element for complex content.
 */

```

```
public class XmlSchemaComplexContentRestriction extends XmlSchemaContent {
```

```

/**
 * Creates new XmlSchemaComplexContentRestriction
 */

```

```

public XmlSchemaComplexContentRestriction() {
    attributes = new XmlSchemaObjectCollection();
}

```

```

/* Allows an XmlSchemaAnyAttribute to be used for the attribute value.*/
XmlSchemaAnyAttribute anyAttribute;

```

```

public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
    this.anyAttribute = anyAttribute;
}

```

```

public XmlSchemaAnyAttribute getAnyAttribute() {
    return this.anyAttribute;
}

```

```

/* Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef.
 * Collection of attributes for the simple type.
 */

```

```
XmlSchemaObjectCollection attributes;
```

```

public XmlSchemaObjectCollection getAttributes() {

```

```

    return this.attributes;
}

/* Name of the built-in data type, simple type, or complex type.*/
QName baseTypeName;

public void setBaseTypeName(QName baseTypeName) {
    this.baseTypeName = baseTypeName;
}

public QName getBaseTypeName() {
    return this.baseTypeName;
}

/*One of the XmlSchemaGroupRef, XmlSchemaChoice, XmlSchemaAll,
* or XmlSchemaSequence classes.
*/
XmlSchemaParticle particle;

public XmlSchemaParticle getParticle() {
    return this.particle;
}

public void setParticle(XmlSchemaParticle particle) {
    this.particle = particle;
}

public String toString(String prefix, int tab) {
    String xml = new String();
    for (int i = 0; i < tab; i++)
        xml += "\t";
    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    xml += "<" + prefix + "restriction>\n";

    if (particle != null)
        xml += particle.toString(prefix, (tab + 1));

    for (int i = 0; i < tab; i++)
        xml += "\t";

    xml += "</" + prefix + "restriction>\n";
    return xml;
}
}
/*

```

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*/

```

```
package org.apache.ws.commons.schema;
```

```
import org.apache.ws.commons.schema.constants.Constants;
```

```
/**
```

```

* Class for complex types. Defines a complex type that determines the
* set of attributes and content of an element. Represents the World Wide
* Web Consortium (W3C) complexType element.
*/

```

```

public class XmlSchemaComplexType extends XmlSchemaType {
    XmlSchemaAnyAttribute anyAttribute, attributeWildcard;
    XmlSchemaObjectCollection attributes;
    XmlSchemaObjectTable attributeUses;
    XmlSchemaDerivationMethod block, blockResolved;
    XmlSchemaContentModel contentModel;
    XmlSchemaContentType contentType;
    XmlSchemaParticle particleType, particle;
    boolean isAbstract, isMixed;

```

```
/**
```

```

* Creates new XmlSchemaComplexType
*/

```

```

public XmlSchemaComplexType(XmlSchema schema) {
    super(schema);
    attributes = new XmlSchemaObjectCollection();
    block = new XmlSchemaDerivationMethod(Constants.BlockConstants.NONE);
    isAbstract = false;
    isMixed = false;
}

```

```

public XmlSchemaAnyAttribute getAnyAttribute() {
    return anyAttribute;
}

public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
    this.anyAttribute = anyAttribute;
}

public XmlSchemaObjectCollection getAttributes() {
    return attributes;
}

public XmlSchemaObjectTable getAttributeUses() {
    return attributeUses;
}

public XmlSchemaAnyAttribute getAttributeWildcard() {
    return attributeWildcard;
}

public XmlSchemaDerivationMethod getBlock() {
    return block;
}

public void setBlock(XmlSchemaDerivationMethod block) {
    this.block = block;
}

public XmlSchemaDerivationMethod getBlockResolved() {
    return blockResolved;
}

public XmlSchemaContentModel getContentModel() {
    return contentModel;
}

public void setContentModel(XmlSchemaContentModel contentModel) {
    this.contentModel = contentModel;
}

public XmlSchemaContentType getContentType() {
    return contentType;
}

public void setContentType(XmlSchemaContentType contentType) {
    this.contentType = contentType;
}

```



```

public XmlSchemaParticle getContentTypeParticle() {
    return particleType;
}

public boolean isAbstract() {
    return isAbstract;
}

public void setAbstract(boolean b) {
    isAbstract = b;
}

public boolean isMixed() {
    return isMixed;
}

public void setMixed(boolean b) {
    isMixed = b;
}

public XmlSchemaParticle getParticle() {
    return particle;
}

public void setParticle(XmlSchemaParticle particle) {
    this.particle = particle;
}

public String toString(String prefix, int tab) {
    String xml = new String();

    for (int i = 0; i < tab; i++)
        xml += "\t";

    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    String typeName = name != null ? name : "";

    xml += "<" + prefix + "complexType name=\"" + typeName + "\">\n";

    if (particle != null)
        xml += particle.toString(prefix, (tab + 1));

    if (contentModel != null)
        xml += contentModel.toString(prefix, (tab + 1));

    for (int i = 0; i < attributes.getCount(); i++) {

```

```

        xml += attributes.getItem(i).toString(prefix, (tab + 1));
    }

    for (int i = 0; i < tab; i++)
        xml += "\t";

    xml += "</" + prefix + "complexType>\n";
    return xml;
}
}
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 */

package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for complex types with a complex content model derived by extension.
 * Extends the complex type by adding attributes or elements. Represents the
 * World Wide Web Consortium (W3C) extension element for complex content.
 */

public class XmlSchemaComplexContentExtension extends XmlSchemaContent {

    /**
     * Creates new XmlSchemaComplexContentExtension
     */
    public XmlSchemaComplexContentExtension() {
        attributes = new XmlSchemaObjectCollection();
    }
}

```

```

}

/* Allows an XmlSchemaAnyAttribute to be used for the attribute value.*/
XmlSchemaAnyAttribute anyAttribute;

public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
    this.anyAttribute = anyAttribute;
}

public XmlSchemaAnyAttribute getAnyAttribute() {
    return this.anyAttribute;
}

/* Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef. Collection of attributes for the simple
type.*/
XmlSchemaObjectCollection attributes;

public XmlSchemaObjectCollection getAttributes() {
    return this.attributes;
}

/* Name of the built-in data type, simple type, or complex type.*/
QName baseTypeName;

public void setBaseTypeName(QName baseTypeName) {
    this.baseTypeName = baseTypeName;
}

public QName getBaseTypeName() {
    return this.baseTypeName;
}

/*One of the XmlSchemaGroupRef, XmlSchemaChoice, XmlSchemaAll, or XmlSchemaSequence classes.*/
XmlSchemaParticle particle;

public XmlSchemaParticle getParticle() {
    return this.particle;
}

public void setParticle(XmlSchemaParticle particle) {
    this.particle = particle;
}

public String toString(String prefix, int tab) {
    String xml = new String();
    for (int i = 0; i < tab; i++)
        xml += "\t";
    if (!prefix.equals("") && prefix.indexOf(":") == -1)

```

```

        prefix += ":";

xml += "<" + prefix + "extension>\n";

if (particle != null)
    xml += particle.toString(prefix, (tab + 1));

for (int i = 0; i < tab; i++)
    xml += "\t";

xml += "</" + prefix + "extension>\n";
return xml;
}
}
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 */

package org.apache.ws.commons.schema;

/**
 * Class that represents the complex content model for complex types.
 * Contains extensions or restrictions on a complex type that has mixed
 * content or elements only. Represents the World Wide Web Consortium (W3C)
 * complexContent element.
 */

// Vidyanand - 16th Oct - initial implementation

public class XmlSchemaComplexContent extends XmlSchemaContentModel {

/**
 * Creates new XmlSchemaComplexContent

```

```

*/
public XmlSchemaComplexContent() {
}

/* One of either the XmlSchemaComplexContentRestriction or
* XmlSchemaComplexContentExtension classes.
*/
XmlSchemaContent content;

public XmlSchemaContent getContent() {
    return this.content;
}

public void setContent(XmlSchemaContent content) {
    this.content = content;
}

/* Indicates that this type has a mixed content model. Character data
* is allowed to appear between the child elements of the complex type.
*/
public boolean mixed;

public boolean isMixed() {
    return this.mixed;
}

public void setMixed(boolean mixed) {
    this.mixed = mixed;
}

public String toString(String prefix, int tab) {
    String xml = new String();
    for (int i = 0; i < tab; i++)
        xml += "\t";

    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    xml += "<" + prefix + "complexContent>\n";

    xml += content.toString(prefix, (tab + 1));

    for (int i = 0; i < tab; i++)
        xml += "\t";
    xml += "<" + prefix + "complexContent>\n";
    return xml;
}
}

```

```

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 */

package org.apache.ws.commons.schema;

/**
 * Class defines a simple type that determines the information and
 * constraints for the values of attributes or elements with text-only
 * content. Represents the World Wide Web Consortium (W3C) simpleType element.
 */

public class XmlSchemaSimpleType extends XmlSchemaType {

    XmlSchemaSimpleTypeContent content;

    /**
     * Creates new XmlSchemaSimpleType
     */
    public XmlSchemaSimpleType(XmlSchema schema) {
        super(schema);
    }

    public XmlSchemaSimpleTypeContent getContent() {
        return content;
    }

    public void setContent(XmlSchemaSimpleTypeContent content) {
        this.content = content;
    }

    public String toString(String prefix, int tab) {
        String xml = new String();

```

```

    for (int i = 0; i < tab; i++)
        xml += "\t";

    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    xml += "<" + prefix + "simpleType>\n";

    if (content != null)
        xml += content.toString(prefix, (tab + 1));

    for (int i = 0; i < tab; i++)
        xml += "\t";

    xml += "</" + prefix + "simpleType>\n";
    return xml;
}

}
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 */

package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for the list of simpleType elements. Defines a simpleType element
 * as a list of values of a specified data type. Represents the World Wide

```

```

* Web Consortium (W3C) list element.
*/
public class XmlSchemaSimpleTypeList extends XmlSchemaSimpleTypeContent {

    /**
     * Creates new XmlSchemaSimpleTypeList
     */
    public XmlSchemaSimpleTypeList() {
    }

    XmlSchemaSimpleType itemType;

    public XmlSchemaSimpleType getItemType() {
        return this.itemType;
    }

    public void setItemType(XmlSchemaSimpleType itemType) {
        this.itemType = itemType;
    }

    QName itemTypeName;

    public QName getItemTypeName() {
        return this.itemTypeName;
    }

    public void setItemTypeName(QName itemTypeName) {
        this.itemTypeName = itemTypeName;
    }

}
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```



```

*/

package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for simple types that are derived by restriction. Restricts the
 * range of values for the element to a subset of the inherited simple types.
 * Represents the World Wide Web Consortium (W3C) restriction element for simple content.
 */

public class XmlSchemaSimpleContentRestriction extends XmlSchemaContent {

    /**
     * Creates new XmlSchemaSimpleContentRestriction
     */
    public XmlSchemaSimpleContentRestriction() {
        facets = new XmlSchemaObjectCollection();
        attributes = new XmlSchemaObjectCollection();
    }

    /** Allows an XmlSchemaAnyAttribute to be used for the attribute value.*/
    XmlSchemaAnyAttribute anyAttribute;

    public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
        this.anyAttribute = anyAttribute;
    }

    public XmlSchemaAnyAttribute getAnyAttribute() {
        return this.anyAttribute;
    }

    /** Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef. Collection of attributes for the simple
    type.*/
    XmlSchemaObjectCollection attributes;

    public XmlSchemaObjectCollection getAttributes() {
        return this.attributes;
    }

    /**Derived from the type specified by the base value.*/
    XmlSchemaSimpleType baseType;

    public void setBaseType(XmlSchemaSimpleType baseType) {
        this.baseType = baseType;
    }
}

```

```

public XmlSchemaSimpleType getBaseType() {
    return this.baseType;
}

/* Name of the built-in data type, simple type, or complex type.*/
QName baseTypeName;

public void setBaseTypeName(QName baseTypeName) {
    this.baseTypeName = baseTypeName;
}

public QName getBaseTypeName() {
    return this.baseTypeName;
}

/* One or more of the facet classes: */
XmlSchemaObjectCollection facets;

public XmlSchemaObjectCollection getFacets() {
    return this.facets;
}

}

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 */

package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

```

```

/**
 * Class for simple types that are derived by extension. Extends the simple
 * type content of the element by adding attributes. Represents the World Wide
 * Web Consortium (W3C) extension element for simple content.
 */

public class XmlSchemaSimpleContentExtension extends XmlSchemaContent {

    /**
     * Creates new XmlSchemaSimpleContentExtension
     */
    public XmlSchemaSimpleContentExtension() {
        attributes = new XmlSchemaObjectCollection();
    }

    /** Allows an XmlSchemaAnyAttribute to be used for the attribute value.*/
    XmlSchemaAnyAttribute anyAttribute;

    public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
        this.anyAttribute = anyAttribute;
    }

    public XmlSchemaAnyAttribute getAnyAttribute() {
        return this.anyAttribute;
    }

    /** Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef. Collection of attributes for the simple
    type.*/
    XmlSchemaObjectCollection attributes;

    public XmlSchemaObjectCollection getAttributes() {
        return this.attributes;
    }

    /** Name of the built-in data type, simple type, or complex type.*/
    QName baseTypeName;

    public void setBaseTypeName(QName baseTypeName) {
        this.baseTypeName = baseTypeName;
    }

    public QName getBaseTypeName() {
        return this.baseTypeName;
    }
}

```

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 */
```

```
package org.apache.ws.commons.schema;
```

```
/**
 * Abstract class for simple type content classes.
 */
```

```
public abstract class XmlSchemaSimpleTypeContent extends XmlSchemaAnnotated {
```

```
    /**
     * Creates new XmlSchemaSimpleTypeContent
     */
    protected XmlSchemaSimpleTypeContent() {
    }
}
```

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*/

package org.apache.ws.commons.schema;

/**
 * Class for simple types and complex types with a simple content model.
 * Represents the World Wide Web Consortium (W3C) simpleContent element.
 */

public class XmlSchemaSimpleContent extends XmlSchemaContentModel {

    /**
     * Creates new XmlSchemaSimpleContent
     */
    public XmlSchemaSimpleContent() {
    }

    /** One of XmlSchemaSimpleContentRestriction or XmlSchemaSimpleContentExtension. */
    XmlSchemaContent content;

    public XmlSchemaContent getContent() {
        return this.content;
    }

    public void setContent(XmlSchemaContent content) {
        this.content = content;
    }

    public String toString(String prefix, int tab) {
        String xml = new String();

        if (!prefix.equals("") && prefix.indexOf(":") == -1) {
            prefix += ":";
        }
        return xml;
    }
}

```

3.886 xmlschema 2.0.3

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XmlSchema

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3.887 xmlsec-java 1.5.7

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3.889 XMLTooling-J 1.3.2-1

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3.890 xmlunit 1.2.0

3.891 xom 1.1

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3.892 xom 1.2.10

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3.893 xpp3 1.1.4c

3.894 xpp3_min 1.1.3.4.O

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3.895 xpp3_min 1.1.4c

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About XmlPull API

It is a minimalist API: very easy to implement standalone or on top of existing parser. The API allows both fast high level iteration (using next() method) and low level tokenizing (using nextToken() token) and is designed for easy building on top of it SAX, XML pull parsers that uses iterators with event objects, or even DOM implementations. To support J2ME and real small implementation parsing of DOCDECL is optional (but DOCDECL can be reported if requested).

The aim is to provide a similar but orthogonal pull parsing basis to widely successful push parsing SAX API. The XmlPull API is in public domain in hope that it will be embraced by Java developers (conformance tests are under LGPL license to minimize risk of incompatible implementations).

3.896 xstream 1.3.1

3.897 xstream 1.4.10

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3.898 xstream 1.4.8

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3.899 yamlbeans 0.9.2

3.900 zlib 1.2.3

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3.901 zlib 1.2.3

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