

*** Date: Tuesday, October 11, 2022 at 10:37:00 AM Eastern Daylight Time

*** Platform Details:

*** System properties:

applicationXML=org.eclipse.ui.workbench/LegacyIDE.e4xmi
ds.delayed.keepInstances=true
ds.delayed.keepInstances.default=true
eclipse.application=org.eclipse.ui.ide.workbench
eclipse.buildId=4.25.0.I20220831-1800
eclipse.commands=-os
macosx
-ws
cocoa
-arch
x86_64
-showsplash
/Applications/Eclipse.app/Contents/MacOS/../Eclipse/plugins/
org.eclipse.epp.package.common_4.25.0.20220908-1200/splash.bmp
-launcher
/Applications/Eclipse.app/Contents/MacOS/eclipse
-name
Eclipse
--launcher.library
/Applications/Eclipse.app/Contents/MacOS/../Eclipse/plugins/
org.eclipse.equinox.launcher.cocoa.macosx.x86_64_1.2.600.v20220720-1916/
eclipse_11700.so
-startup
/Applications/Eclipse.app/Contents/MacOS/../Eclipse/plugins/
org.eclipse.equinox.launcher_1.6.400.v20210924-0641.jar
--launcher.appendVmargs
-product
org.eclipse.epp.package.java.product
-keyring
/Users/earlharris/.eclipse_keyring
-vm
/Applications/Eclipse.app/Contents/Eclipse/plugins/
org.eclipse.justj.openjdk.hotspot.jre.full.macosx.x86_64_17.0.4.v20220903-1038/jre/lib/
libjli.dylib
eclipse.home.location=file:/Applications/Eclipse.app/Contents/Eclipse/
eclipse.launcher=/Applications/Eclipse.app/Contents/MacOS/eclipse
eclipse.launcher.name=Eclipse
eclipse.p2.data.area=@config.dir/./p2/
eclipse.p2.profile=epp.package.java
eclipse.product=org.eclipse.epp.package.java.product
eclipse.startTime=1665498990294
eclipse.stateSaveDelayInterval=30000

```
eclipse.vm=/Applications/Eclipse.app/Contents/Eclipse/plugins/  
org.eclipse.justj.openjdk.hotspot.jre.full.macosx.x86_64_17.0.4.v20220903-1038/jre/lib/  
libjli.dylib  
eclipse.vargs=-Dosgi.requiredJavaVersion=17  
-Dosgi.instance.area.default=@user.home/eclipse-workspace  
-Dsun.java.command=Eclipse  
-XX:+UseG1GC  
-XX:+UseStringDeduplication  
--add-modules=ALL-SYSTEM  
-XstartOnFirstThread  
-Dorg.eclipse.swt.internal.carbon.smallFonts  
-Dosgi.requiredJavaVersion=11  
-Dosgi.dataAreaRequiresExplicitInit=true  
-Dorg.eclipse.swt.graphics.Resource.reportNonDisposed=true  
-Xms256m  
-Xmx2048m  
--add-modules=ALL-SYSTEM  
-Xdock:icon=../Resources/Eclipse.icns  
-XstartOnFirstThread  
-Dorg.eclipse.swt.internal.carbon.smallFonts  
-Djava.class.path=/Applications/Eclipse.app/Contents/MacOS/../../Eclipse/plugins/  
org.eclipse.equinox.launcher_1.6.400.v20210924-0641.jar  
equinox.init.uuid=true  
file.encoding=UTF-8  
file.separator=/  
ftp.nonProxyHosts=local*.local169.254/161*.169.254/16  
gosh.args=--nointeractive  
guice.disable.misplaced.annotation.check=true  
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java.class.version=61.0  
java.home=/Applications/Eclipse.app/Contents/Eclipse/plugins/  
org.eclipse.justj.openjdk.hotspot.jre.full.macosx.x86_64_17.0.4.v20220903-1038/jre  
java.io.tmpdir=/var/folders/fd/f8p8pgpn2lj2g45198r7kbv00000gn/T/  
java.library.path=/Users/earlharris/Library/Java/Extensions:/Library/Java/Extensions:/  
Network/Library/Java/Extensions:/System/Library/Java/Extensions:/usr/lib/java:.  
java.runtime.name=OpenJDK Runtime Environment  
java.runtime.version=17.0.4.1+1  
java.specification.name=Java Platform API Specification  
java.specification.vendor=Oracle Corporation  
java.specification.version=17  
java.vendor=Eclipse Adoptium  
java.vendor.url=https://adoptium.net/  
java.vendor.url.bug=https://github.com/adoptium/adoptium-support/issues  
java.vendor.version=Temurin-17.0.4.1+1  
java.version=17.0.4.1  
java.version.date=2022-08-12
```

java.vm.compressedOopsMode=32-bit
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java.vm.specification.version=17
java.vm.vendor=Eclipse Adoptium
java.vm.version=17.0.4.1+1
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maven.defaultProjectBuilder.disableGlobalModelCache=true
native.encoding=UTF-8
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MacOS//../Eclipse/plugins/org.eclipse.epp.package.common_4.25.0.20220908-1200/
splash.bmp
org.eclipse.equinox.simpleconfigurator.configUrl=file:org.eclipse.equinox.simpleconfigur
ator/bundles.info
org.eclipse.m2e.log.dir=/Users/earlharris/eclipse-workspace/.metadata/.plugins/
org.eclipse.m2e.logback.configuration
org.eclipse.swt.graphics.Resource.reportNonDisposed=true
org.eclipse.swt.internal.carbon.smallFonts=
org.eclipse.swt.internal.deviceZoom=100
org.osgi.framework.executionenvironment=OSGi/Minimum-1.0, OSGi/Minimum-1.1,
OSGi/Minimum-1.2, JavaSE/compact1-1.8, JavaSE/compact2-1.8, JavaSE/
compact3-1.8, JRE-1.1, J2SE-1.2, J2SE-1.3, J2SE-1.4, J2SE-1.5, JavaSE-1.6,
JavaSE-1.7, JavaSE-1.8, JavaSE-9, JavaSE-10, JavaSE-11, JavaSE-12, JavaSE-13,
JavaSE-14, JavaSE-15, JavaSE-16, JavaSE-17
org.osgi.framework.language=en
org.osgi.framework.os.name=MacOSX
org.osgi.framework.os.version=12.6.0
org.osgi.framework.processor=x86-64
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version:List<Version>="1.0, 1.1, 1.2", osgi.ee; osgi.ee="JRE";
version:List<Version>="1.0, 1.1", osgi.ee; osgi.ee="JavaSE";
version:List<Version>="1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 9.0, 10.0, 11.0, 12.0,
13.0, 14.0, 15.0, 16.0, 17.0",osgi.ee; osgi.ee="JavaSE/compact1";
version:List<Version>="1.8, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0, 15.0, 16.0, 17.0",osgi.ee;
osgi.ee="JavaSE/compact2"; version:List<Version>="1.8, 9.0, 10.0, 11.0, 12.0, 13.0,
14.0, 15.0, 16.0, 17.0",osgi.ee; osgi.ee="JavaSE/compact3";
version:List<Version>="1.8, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0, 15.0, 16.0, 17.0"
org.osgi.framework.system.packages=com.sun.jarsigner, com.sun.java.accessibility.util,
com.sun.jdi, com.sun.jdi.connect, com.sun.jdi.connect.spi, com.sun.jdi.event,
com.sun.jdi.request, com.sun.management, com.sun.net.httpserver,
com.sun.net.httpserver.spi, com.sun.nio.file, com.sun.nio.sctp, com.sun.security.auth,
com.sun.security.auth.callback, com.sun.security.auth.login,
com.sun.security.auth.module, com.sun.security.jgss, com.sun.source.doctree,

com.sun.source.tree, com.sun.source.util, com.sun.tools.attach,
com.sun.tools.attach.spi, com.sun.tools.javac, com.sun.tools.jconsole, java.applet,
java.awt, java.awt.color, java.awt.datatransfer, java.awt.desktop, java.awt.dnd,
java.awt.event, java.awt.font, java.awt.geom, java.awt.im, java.awt.im.spi,
java.awt.image, java.awt.image.renderable, java.awt.print, java.beans,
java.beans.beancontext, java.io, java.lang, java.lang.annotation, java.lang.constant,
java.lang.instrument, java.lang.invoke, java.lang.management, java.lang.module,
java.lang.ref, java.lang.reflect, java.lang.runtime, java.math, java.net, java.net.http,
java.net.spi, java.nio, java.nio.channels, java.nio.channels.spi, java.nio.charset,
java.nio.charset.spi, java.nio.file, java.nio.file.attribute, java.nio.file.spi, java.rmi,
java.rmi.dgc, java.rmi.registry, java.rmi.server, java.security, java.security.cert,
java.security.interfaces, java.security.spec, java.sql, java.text, java.text.spi, java.time,
java.time.chrono, java.time.format, java.time.temporal, java.time.zone, java.util,
java.util.concurrent, java.util.concurrent.atomic, java.util.concurrent.locks,
java.util.function, java.util.jar, java.util.logging, java.util.prefs, java.util.random,
java.util.regex, java.util.spi, java.util.stream, java.util.zip, javax.accessibility,
javax.annotation.processing, javax.crypto, javax.crypto.interfaces, javax.crypto.spec,
javax.imageio, javax.imageio.event, javax.imageio.metadata,
javax.imageio.plugins.bmp, javax.imageio.plugins.jpeg, javax.imageio.plugins.tiff,
javax.imageio.spi, javax.imageio.stream, javax.lang.model, javax.lang.model.element,
javax.lang.model.type, javax.lang.model.util, javax.management,
javax.management.loading, javax.management.modelmbean,
javax.management.monitor, javax.management.openmbean,
javax.management.relation, javax.management.remote, javax.management.remote.rmi,
javax.management.timer, javax.naming, javax.naming.directory, javax.naming.event,
javax.naming.ldap, javax.naming.ldap.spi, javax.naming.spi, javax.net, javax.net.ssl,
javax.print, javax.print.attribute, javax.print.attribute.standard, javax.print.event,
javax.rmi.ssl, javax.script, javax.security.auth, javax.security.auth.callback,
javax.security.auth.kerberos, javax.security.auth.login, javax.security.auth.spi,
javax.security.auth.x500, javax.security.cert, javax.security.sasl, javax.smartcardio,
javax.sound.midi, javax.sound.midi.spi, javax.sound.sampled, javax.sound.sampled.spi,
javax.sql, javax.sql.rowset, javax.sql.rowset.serial, javax.sql.rowset.spi, javax.swing,
javax.swing.border, javax.swing.colorchooser, javax.swing.event,
javax.swing.filechooser, javax.swing.plaf, javax.swing.plaf.basic, javax.swing.plaf.metal,
javax.swing.plaf.multi, javax.swing.plaf.nimbus, javax.swing.plaf.synth,
javax.swing.table, javax.swing.text, javax.swing.text.html, javax.swing.text.html.parser,
javax.swing.text.rtf, javax.swing.tree, javax.swing.undo, javax.tools,
javax.transaction.xa, javax.xml, javax.xml.catalog, javax.xml.crypto,
javax.xml.crypto.dom, javax.xml.crypto.dsig, javax.xml.crypto.dsig.dom,
javax.xml.crypto.dsig.keyinfo, javax.xml.crypto.dsig.spec, javax.xml.datatype,
javax.xml.namespace, javax.xml.parsers, javax.xml.stream, javax.xml.stream.events,
javax.xml.stream.util, javax.xml.transform, javax.xml.transform.dom,
javax.xml.transform.sax, javax.xml.transform.stax, javax.xml.transform.stream,
javax.xml.validation, javax.xml.xpath, jdk.dynalink, jdk.dynalink.beans,
jdk.dynalink.linker, jdk.dynalink.linker.support, jdk.dynalink.support, jdk.javadoc.doclet,
jdk.jfr, jdk.jfr.consumer, jdk.jshell, jdk.jshell.execution, jdk.jshell.spi, jdk.jshell.tool,
jdk.management.jfr, jdk.net, jdk.nio, jdk.nio.mapmode, jdk.security.jarsigner,

jdk.swing.interop, netscape.javascript, org.ietf.jgss, org.w3c.dom,
org.w3c.dom.bootstrap, org.w3c.dom.css, org.w3c.dom.events, org.w3c.dom.html,
org.w3c.dom.ls, org.w3c.dom.ranges, org.w3c.dom.stylesheets, org.w3c.dom.traversal,
org.w3c.dom.views, org.w3c.dom.xpath, org.xml.sax, org.xml.sax.ext,
org.xml.sax.helpers, sun.misc, sun.reflect
org.osgi.framework.uid=723c2663-c0df-4f98-808d-fda628c4e023
org.osgi.framework.vendor=Eclipse
org.osgi.framework.version=1.10.0
org.osgi.supports.framework.extension=true
org.osgi.supports.framework.fragment=true
org.osgi.supports.framework.requirebundle=true
os.arch=x86_64
os.name=Mac OS X
os.version=12.6
osgi.arch=x86_64
osgi.bundles=reference:file:org.eclipse.osgi.compatibility.state_1.2.700.v20220722-043
1.jar,reference:file:org.eclipse.equinox.simpleconfigurator_1.4.100.v20220620-1617.jar
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osgi.bundles.defaultStartLevel=4
osgi.compatibility.bootdelegation=true
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osgi.configuration.area=file:/Applications/Eclipse.app/Contents/Eclipse/configuration/
osgi.dataAreaRequiresExplicitInit=true
osgi.framework=file:/Applications/Eclipse.app/Contents/Eclipse/plugins/
org.eclipse.osgi_3.18.100.v20220817-1601.jar
osgi.framework.extensions=reference:file:org.eclipse.osgi.compatibility.state_1.2.700.v2
0220722-0431.jar
osgi.framework.shape=jar
osgi.framework.useSystemProperties=true
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org.eclipse.osgi.compatibility.state_1.2.700.v20220722-0431.jar
osgi.install.area=file:/Applications/Eclipse.app/Contents/Eclipse/
osgi.instance.area=file:/Users/earlharris/eclipse-workspace/
osgi.instance.area.default=file:/Users/earlharris/eclipse-workspace/
osgi logfile=/Users/earlharris/eclipse-workspace/.metadata/.log
osgi.nl=en_US
osgi.os=macosx
osgi.requiredJavaVersion=11
osgi.splashLocation=/Applications/Eclipse.app/Contents/MacOS//../Eclipse/plugins/
org.eclipse.epp.package.common_4.25.0.20220908-1200/splash.bmp
osgi.splashPath=platform:/base/plugins/org.eclipse.platform
osgi.syspath=/Applications/Eclipse.app/Contents/Eclipse/plugins
osgi.tracefile=/Users/earlharris/eclipse-workspace/.metadata/trace.log
osgi.ws=cocoa
path.separator=:
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sun.arch.data.model=64

sun.boot.library.path=/Applications/Eclipse.app/Contents/Eclipse/plugins/
org.eclipse.justj.openjdk.hotspot.jre.full.macosx.x86_64_17.0.4.v20220903-1038/jre/lib
sun.cpu.endian=little
sun.io.unicode.encoding=UnicodeBig
sun.java.command=Eclipse
sun.jnu.encoding=UTF-8
sun.management.compiler=HotSpot 64-Bit Tiered Compilers
user.country=US
user.dir=/Applications/Eclipse.app/Contents/MacOS
user.home=/Users/earlharris
user.language=en
user.name=earlharris
user.timezone=America/New_York

*** System environment variables:

APP_ICON_73461=./Resources/Eclipse.icns
COMMAND_MODE=unix2003
HOME=/Users/earlharris
JAVA_STARTED_ON_FIRST_THREAD_73461=1
LOGNAME=earlharris
PATH=/usr/bin:/bin:/usr/sbin:/sbin
SHELL=/bin/bash
SSH_AUTH_SOCK=/private/tmp/com.apple.launchd.wBHSfPBwlb/Listeners
TMPDIR=/var/folders/fd/f8p8pgpn2lj2g45198r7kbv00000gn/T/
USER=earlharris
XPC_FLAGS=0x0
XPC_SERVICE_NAME=application.org.eclipse.platform.ide.62452025.62453768
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__CF_USER_TEXT_ENCODING=0x1F5:0x0:0x0

*** Features:

org.eclipse.buildship (3.1.6.v20220511-1359) "Buildship, Eclipse Plug-ins for Gradle"
org.eclipse.eclEmma.feature (3.1.6.202206011447) "EclEmma UI"
org.eclipse.egit (6.3.0.202209071007-r) "Git integration for Eclipse"
org.eclipse.emf.common (2.27.0.v20220817-1401) "EMF Common"
org.eclipse.emf.ecore (2.29.0.v20220817-1401) "EMF Ecore"
org.eclipse.epp.mpc (1.10.0.v20220502-0731) "Marketplace Client"
org.eclipse.epp.package.java.feature (4.25.0.20220908-1200) "EPP Java Package"
org.eclipse.help (2.3.1100.v20220831-1800) "Help System Base"
org.eclipse.jdt (3.18.1300.v20220831-1800) "Eclipse Java Development Tools"
org.eclipse.jgit (6.3.0.202209071007-r) "JGit Core"
org.eclipse.jgit.gpg.bc (6.3.0.202209071007-r) "JGit Core"
org.eclipse.jgit.http.apache (6.3.0.202209071007-r) "JGit Apache httpclient based HTTP support"
org.eclipse.jgit.ssh.apache (6.3.0.202209071007-r) "JGit SSH support based on Apache MINA sshd"
org.eclipse.jst.common.fproj.enablement.jdt (3.27.0.v202208260526) "Eclipse Faceted

Project Framework JDT Enablement"
org.eclipse.jst.enterprise_ui.feature (3.27.0.v202206160204) "Eclipse Java EE Developer Tools"
org.eclipse.justj.openjdk.hotspot.jre.full (17.0.4.v20220903-1038) "JustJ Adoptium OpenJDK Hotspot JRE Complete"
org.eclipse.m2e.feature (2.0.4.20220904-1703) "M2E Maven Integration for Eclipse Core"
org.eclipse.m2e.logback.feature (2.0.0.20220717-0848) "M2E Logback Configuration"
org.eclipse.m2e.wtp.feature (1.5.2.20220906-1452) "Maven Integration for Eclipse WTP"
org.eclipse.mylyn.wikitext_feature (3.0.42.202201072301) "Mylyn WikiText"
org.eclipse.mylyn.wikitext.editors_feature (3.0.42.202201072301) "Mylyn WikiText"
org.eclipse.oomph.p2 (1.24.0.v20220822-1127) "Oomph P2 Management"
org.eclipse.oomph.setup (1.26.0.v20220905-0631) "Oomph Setup"
org.eclipse.oomph.setup.core (1.25.0.v20220903-1123) "Oomph Setup Core"
org.eclipse.platform (4.25.0.v20220831-1800) "Eclipse Platform"
org.eclipse.rcp (4.25.0.v20220831-1800) "Eclipse RCP"
org.eclipse.tm.terminal.connector.ssh.feature (10.7.1.202208160035) "Terminal SSH Connector"
org.eclipse.tm.terminal.control.feature (10.7.1.202208160035) "Terminal Control (Embeddable Widget)"
org.eclipse.tm.terminal.feature (10.7.1.202208160035) "Terminal View Core"
org.eclipse.tm.terminal.view.feature (10.7.1.202208160035) "Terminal View"
org.eclipse.userstorage (1.2.0.v20210517-0327) "Eclipse User Storage"
org.eclipse.wst.common.fproj (3.7.3.v202111212041) "Eclipse Faceted Project Framework"
org.eclipse.wst.json_ui.feature (1.1.10.v202103121626) "Eclipse JSON Editors and Tools"
org.eclipse.wst.web_ui.feature (3.27.0.v202208280234) "Eclipse Web Developer Tools"
org.eclipse.wst.xml_ui.feature (3.27.0.v202208280234) "Eclipse XML Editors and Tools"

*** Plug-in Registry:

ch.qos.logback.classic (1.1.2.v20171220-1825) "Logback Classic Module" [Resolved]
ch.qos.logback.core (1.1.2.v20160208-0839) "Logback Core Module" [Resolved]
ch.qos.logback.slf4j (1.1.2.v20160301-0943) "SLF4J API Module" [Resolved]
com.google.gson (2.9.1) "Gson" [Resolved]
com.google.guava (30.1.0.v20210127-2300) "Guava: Google Core Libraries for Java" [Resolved]
com.google.javascript (0.0.20160315.v20161124-1903) "Closure Compiler" [Resolved]
com.google.protobuf (2.4.0.v201105131100) "Protocol Buffers" [Starting]
com.ibm.icu (67.1.0) "ICU4J" [Resolved]
com.ibm.icu (67.1.0.v20200706-1749) "ICU4J" [Active]
com.jcraft.jsch (0.1.55.v20190404-1902) "JSch" [Resolved]
com.sun.el (2.2.0.v201303151357) "Javax Expression Language Reference Implementation Bundle" [Resolved]
com.sun.jna (5.8.0) "jna" [Starting]
com.sun.jna.platform (5.8.0) "jna-platform" [Resolved]

jakarta.el (4.0.0.v20210105-0527) "Jakarta Expression Language API" [Resolved]
jakarta.enterprise.cdi-api (2.0.2) "Jakarta CDI" [Resolved]
jakarta.interceptor-api (1.2.5) "Jakarta Interceptors" [Resolved]
jakarta.servlet (5.0.0.v20210105-0527) "Jakarta Servlet API" [Resolved]
jakarta.servlet.jsp (3.0.0.v20210105-0527) "Jakarta Server Pages API" [Resolved]
jakarta.servlet-api (4.0.0) "Jakarta Servlet" [Resolved]
jakarta.transaction-api (1.3.3) "javax.transaction API" [Resolved]
javaewah (1.1.13.v20211029-0839) "javaewah" [Resolved]
javax.activation (1.1.0.v201211130549) "Apache Geronimo Activation Plug-in" [Resolved]
javax.annotation (1.3.5.v20200909-1856) "Jakarta Annotations API" [Resolved]
javax.el (2.2.0.v201303151357) "Javax Expression Language Bundle" [Resolved]
javax.inject (1.0.0.v20220405-0441) "Jakarta Inject" [Resolved]
javax.mail (1.4.0.v201005080615) "Javax Mail Plug-in" [Resolved]
javax.servlet.jsp-api (2.3.3) "JavaServer Pages(TM) API" [Resolved]
javax.wsdl (1.6.2.v201012040545) "WSDL4J" [Resolved]
javax.xml (1.3.4.v201005080400) "JAXP XML" [Resolved]
javax.xml.rpc (1.1.0.v201209140446) "JAX-RPC" [Resolved]
javax.xml.soap (1.2.0.v201005080501) "SAAJ" [Resolved]
junit-jupiter-api (5.9.0) "JUnit Jupiter API" [Resolved]
junit-jupiter-engine (5.9.0) "JUnit Jupiter Engine" [Resolved]
junit-jupiter-migrationsupport (5.9.0) "JUnit Jupiter Migration Support" [Resolved]
junit-jupiter-params (5.9.0) "JUnit Jupiter Params" [Resolved]
junit-platform-commons (1.9.0) "JUnit Platform Commons" [Resolved]
junit-platform-engine (1.9.0) "JUnit Platform Engine API" [Resolved]
junit-platform-launcher (1.9.0) "JUnit Platform Launcher" [Resolved]
junit-platform-runner (1.9.0) "JUnit Platform Runner" [Resolved]
junit-platform-suite-api (1.9.0) "JUnit Platform Suite API" [Resolved]
junit-platform-suite-commons (1.9.0) "JUnit Platform Suite Commons" [Resolved]
junit-platform-suite-engine (1.9.0) "JUnit Platform Suite Engine" [Resolved]
junit-vintage-engine (5.9.0) "JUnit Vintage Engine" [Resolved]
net.i2p.crypto.eddsa (0.3.0.v20220506-1020) "EdDSA-Java" [Resolved]
org.apache.ant (1.10.12.v20211102-1452) "Apache Ant" [Resolved]
org.apache.axis (1.4.0.v201411182030) "Apache Web Services" [Resolved]
org.apache.batik.constants (1.14.0.v20210324-0332) "Batik constants library" [Resolved]
org.apache.batik.css (1.14.0.v20210324-0332) "Batik CSS engine" [Resolved]
org.apache.batik.i18n (1.14.0.v20210324-0332) "Batik i18n library" [Resolved]
org.apache.batik.util (1.14.0.v20210324-0332) "Batik utility library" [Resolved]
org.apache.commons.codec (1.14.0.v20200818-1422) "Apache Commons Codec" [Resolved]
org.apache.commons.compress (1.21.0.v20211103-2100) "Apache Commons Compress" [Resolved]
org.apache.commons.discovery (0.2.0.v201004190315) "Jakarta-Commons Discovery" [Resolved]
org.apache.commons.io (2.8.0.v20210415-0900) "Apache Commons IO" [Resolved]
org.apache.commons.jxpath (1.3.0.v200911051830) "Apache Commons

JXPath" [Resolved]
org.apache.commons.lang3 (3.1.0.v201403281430) "Apache Commons Lang" [Resolved]
org.apache.commons.logging (1.2.0.v20180409-1502) "Apache Commons Logging" [Resolved]
org.apache.felix.gogo.command (1.1.2) "Apache Felix Gogo Command" [Active]
org.apache.felix.gogo.runtime (1.1.6) "Apache Felix Gogo Runtime" [Active]
org.apache.felix.gogo.shell (1.1.4) "Apache Felix Gogo Shell" [Active]
org.apache.felix.scr (2.2.2) "Apache Felix Declarative Services" [Active]
org.apache.httpcomponents.client5.httpclient5 (5.1.2.v20211217-1500) "Apache HttpClient" [Resolved]
org.apache.httpcomponents.core5.httpcore5 (5.1.2.v20211217-1500) "Apache HttpComponents Core5 HTTP/1.1" [Resolved]
org.apache.httpcomponents.core5.httpcore5-h2 (5.1.2.v20211217-1500) "Apache HttpComponents Core HTTP/2" [Resolved]
org.apache.httpcomponents.httpclient (4.5.13.v20210128-2225) "Apache HttpClient" [Resolved]
org.apache.httpcomponents.httpcore (4.4.15.v20220209-2345) "Apache HttpCore" [Resolved]
org.apache.jasper.glassfish (2.2.2.v201501141630) "JSP 2.2 implementation from Glassfish" [Resolved]
org.apache.lucene.analyzers-common (8.4.1.v20200122-1459) "Lucene Common Analyzers" [Resolved]
org.apache.lucene.analyzers-smartcn (8.4.1.v20200122-1459) "Lucene Smart Chinese Analyzer" [Resolved]
org.apache.lucene.core (8.4.1.v20200122-1459) "Lucene Core" [Resolved]
org.apache.sshd.osgi (2.8.0) "Apache Mina SSHD :: OSGi" [Resolved]
org.apache.sshd.sftp (2.8.0.v20211227-1750) "Apache Mina SSHD :: SFTP" [Resolved]
org.apache.wsil4j (1.0.0.v20180522-1857) "Web Services Inspection Language for Java" [Resolved]
org.apache.xerces (2.12.2.v20220131-0835) "Xerces2-j" [Resolved]
org.apache.xml.resolver (1.2.0.v20220715-1206) "XML Commons Resolver Component" [Resolved]
org.apache.xml.serializer (2.7.1.v201005080400) "Apache XML Commons Serializer" [Resolved]
org.apache.xmlgraphics (2.6.0.v20210409-0748) "Apache XML Graphics Commons" [Resolved]
org.apiguardian.api (1.1.2) "apiguardian-api" [Resolved]
org.bouncycastle.bcpkg (1.71.0.v20220723-1943) "Bouncy Castle OpenPGP API" [Resolved]
org.bouncycastle.bcprov (1.71.0.v20220723-1943) "Bouncy Castle Provider" [Resolved]
org.eclipse.ant.core (3.6.500.v20220718-1722) "Ant Build Tool Core" [Starting]
org.eclipse.ant.launching (1.3.400.v20220718-1722) "Ant Launching Support" [Starting]
org.eclipse.ant.ui (3.8.300.v20220718-1722) "Ant UI" [Starting]
org.eclipse.buildship.branding (3.1.6.v20220511-1359) "Buildship, Eclipse Plug-ins for Gradle" [Resolved]
org.eclipse.buildship.compat (3.1.6.v20220511-1359) "Buildship, Eclipse Plug-ins for

Gradle - Compatibility classes" [Starting]
org.eclipse.buildship.core (3.1.6.v20220511-1359) "Buildship, Eclipse Plug-ins for Gradle - Core" [Active]
org.eclipse.buildship.ui (3.1.6.v20220511-1359) "Buildship, Eclipse Plug-ins for Gradle - UI" [Active]
org.eclipse.cdt.core.macosx (6.0.700.202208222120) "C/C++ Development Tools Core Native Utilities for MacOS X" [Resolved]
org.eclipse.cdt.core.native (6.2.200.202204200013) "C/C++ Development Tools Core Native Utilities" [Starting]
org.eclipse.compare (3.8.500.v20220812-1406) "Compare Support" [Starting]
org.eclipse.compare.core (3.7.100.v20220812-1406) "Core Compare Support" [Starting]
org.eclipse.core.commands (3.10.200.v20220512-0851) "Commands" [Resolved]
org.eclipse.core.contenttype (3.8.200.v20220817-1539) "Eclipse Content Mechanism" [Active]
org.eclipse.core.databinding (1.11.100.v20220817-1444) "JFace Data Binding" [Starting]
org.eclipse.core.databinding.beans (1.8.0.v20210619-1111) "JFace Data Binding for JavaBeans" [Resolved]
org.eclipse.core.databinding.observable (1.12.0.v20211231-1006) "JFace Data Binding Observables" [Resolved]
org.eclipse.core.databinding.property (1.9.0.v20210619-1129) "JFace Data Binding Properties" [Starting]
org.eclipse.core.expressions (3.8.200.v20220613-1047) "Expression Language" [Active]
org.eclipse.core.externaltools (1.2.300.v20220618-1805) "External Tools Headless Support" [Starting]
org.eclipse.core.filebuffers (3.7.200.v20220202-1008) "File Buffers" [Resolved]
org.eclipse.core.filesystem (1.9.500.v20220817-1539) "Core File Systems" [Active]
org.eclipse.core.filesystem.macosx (1.3.400.v20220812-1420) "Core File System for Macintosh" [Resolved]
org.eclipse.core.jobs (3.13.100.v20220817-1539) "Eclipse Jobs Mechanism" [Active]
org.eclipse.core.net (1.4.0.v20220813-1037) "Internet Connection Management" [Active]
org.eclipse.core.resources (3.18.0.v20220828-0546) "Core Resource Management" [Active]
org.eclipse.core.runtime (3.26.0.v20220813-0916) "Core Runtime" [Active]
org.eclipse.core.variables (3.5.100.v20210721-1355) "Core Variables" [Starting]
org.eclipse.debug.core (3.20.0.v20220811-0741) "Debug Core" [Active]
org.eclipse.debug.ui (3.17.0.v20220817-1312) "Debug UI" [Starting]
org.eclipse.debug.ui.launchview (1.0.300.v20220811-0741) "Debug UI Launch Configuration View" [Active]
org.eclipse.draw2d (3.11.100.202206170857) "GEF Classic Draw2d" [Starting]
org.eclipse.e4.core.commands (1.0.200.v20220629-1225) "Eclipse e4 core commands" [Resolved]
org.eclipse.e4.core.contexts (1.11.0.v20220716-0839) "Eclipse Contexts" [Active]
org.eclipse.e4.core.di (1.8.300.v20220817-1539) "Eclipse Dependency Injection" [Active]
org.eclipse.e4.core.di.annotations (1.7.200.v20220613-1008) "Eclipse Dependency

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org.eclipse.e4.core.di.extensions (0.17.200.v20220613-1008) "Eclipse Dependency Injection Extensions" [Active]
org.eclipse.e4.core.di.extensions.supplier (0.16.400.v20220613-1047) "Eclipse Dependency Injection Extensions Supplier" [Active]
org.eclipse.e4.core.services (2.3.300.v20220613-1047) "Eclipse Application Services" [Active]
org.eclipse.e4.emf.xpath (0.3.0.v20210722-1426) "Eclipse Model Xpath" [Resolved]
org.eclipse.e4.ui.bindings (0.13.100.v20210722-1426) "Eclipse Bindings Support" [Active]
org.eclipse.e4.ui.css.core (0.13.300.v20220809-1237) "Eclipse CSS Core Support" [Resolved]
org.eclipse.e4.ui.css.swt (0.14.600.v20220621-1327) "Eclipse CSS SWT Support" [Active]
org.eclipse.e4.ui.css.swt.theme (0.13.100.v20220310-1056) "Eclipse CSS SWT Theme Support" [Active]
org.eclipse.e4.ui.di (1.4.0.v20210621-1133) "Eclipse UI Dependency Injection" [Active]
org.eclipse.e4.ui.dialogs (1.3.300.v20220815-1831) "Eclipse e4 dialogs" [Resolved]
org.eclipse.e4.ui.ide (3.16.100.v20220310-1350) "E4 IDE UI" [Resolved]
org.eclipse.e4.ui.model.workbench (2.2.200.v20220817-1444) "Eclipse Workbench Model" [Active]
org.eclipse.e4.ui.progress (0.3.500.v20220717-1456) "Eclipse e4 Progress View" [Active]
org.eclipse.e4.ui.services (1.5.0.v20210115-1333) "Eclipse UI Application Services" [Active]
org.eclipse.e4.ui.widgets (1.3.0.v20210621-1136) "Eclipse UI Custom widgets" [Resolved]
org.eclipse.e4.ui.workbench (1.13.200.v20220808-2019) "Eclipse e4 Workbench" [Active]
org.eclipse.e4.ui.workbench.addons.swt (1.4.400.v20211102-0453) "Eclipse e4 Workbench Add-ons" [Active]
org.eclipse.e4.ui.workbench.renderers.swt (0.15.600.v20220715-1400) "Eclipse e4 Workbench SWT Renderer" [Active]
org.eclipse.e4.ui.workbench.renderers.swt.cocoa (0.12.600.v20200416-0656) "Eclipse UI MacOS X Enhancements" [Resolved]
org.eclipse.e4.ui.workbench.swt (0.16.600.v20220607-1204) "Eclipse e4 Workbench SWT" [Active]
org.eclipse.e4.ui.workbench3 (0.16.0.v20210619-0956) "Bundle for Workbench APIs available in e4" [Resolved]
org.eclipse.ecf (3.10.0.v20210925-0032) "ECF Core API" [Active]
org.eclipse.ecf.filetransfer (5.1.102.v20210409-2301) "ECF Filetransfer API" [Active]
org.eclipse.ecf.identity (3.9.402.v20210409-2301) "ECF Identity Core API" [Active]
org.eclipse.ecf.provider.filetransfer (3.2.800.v20220215-0126) "ECF Filetransfer Provider" [Active]
org.eclipse.ecf.provider.filetransfer.httpclient5 (1.0.300.v20220215-0126) "ECF HttpComponents 5 Filetransfer Provider" [Active]
org.eclipse.ecf.provider.filetransfer.ssl (1.0.201.v20210409-2301) "ECF Filetransfer

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org.eclipse.ecf.ssl (1.2.401.v20210409-2301) "ECF Core API" [Resolved]
org.eclipse.eclEmma.core (3.1.6.202206011447) "EclEmma Core" [Starting]
org.eclipse.eclEmma.doc (3.1.6.202206011447) "EclEmma Documentation" [Resolved]
org.eclipse.eclEmma.ui (3.1.6.202206011447) "EclEmma UI" [Starting]
org.eclipse.egit (6.3.0.202209071007-r) "Git integration for Eclipse" [Starting]
org.eclipse.egit.core (6.3.0.202209071007-r) "Git integration for Eclipse - Core" [Active]
org.eclipse.egit.doc (6.3.0.202209071007-r) "Git integration for Eclipse - Documentation" [Starting]
org.eclipse.egit.ui (6.3.0.202209071007-r) "Git integration for Eclipse - UI" [Active]
org.eclipse.emf.codegen (2.22.0.v20210420-0623) "EMF Code Generation" [Starting]
org.eclipse.emf.common (2.26.0.v20220817-1401) "EMF Common" [Active]
org.eclipse.emf.common.ui (2.20.0.v20220226-1304) "EMF Common UI" [Active]
org.eclipse.emf.ecore (2.28.0.v20220817-1401) "EMF Ecore" [Active]
org.eclipse.emf.ecore.change (2.14.0.v20190528-0725) "EMF Change Model" [Starting]
org.eclipse.emf.ecore.edit (2.13.0.v20190822-1451) "EMF Ecore Edit" [Starting]
org.eclipse.emf.ecore.xmi (2.17.0.v20220817-1334) "EMF XML/XMI Persistence" [Active]
org.eclipse.emf.edit (2.17.0.v20220201-1551) "EMF Edit" [Active]
org.eclipse.emf.edit.ui (2.22.0.v20220619-0533) "EMF Edit UI" [Starting]
org.eclipse.epp.mpc.core (1.10.0.v20220502-0731) "Marketplace Client Core" [Active]
org.eclipse.epp.mpc.help.ui (1.10.0.v20220502-0731) "Marketplace Client Help" [Resolved]
org.eclipse.epp.mpc.ui (1.10.0.v20220502-0731) "Marketplace Client" [Active]
org.eclipse.epp.mpc.ui.css (1.10.0.v20220502-0731) "Marketplace Client Theme Support" [Active]
org.eclipse.epp.package.common (4.25.0.20220908-1200) "Common EPP Bundle" [Resolved]
org.eclipse.epp.package.java (4.25.0.20220908-1200) "EPP Java Package" [Resolved]
org.eclipse.equinox.app (1.6.200.v20220720-2012) "Equinox Application Container" [Active]
org.eclipse.equinox.bidi (1.4.200.v20220710-1223) "Bidirectional Text Support" [Starting]
org.eclipse.equinox.common (3.16.200.v20220817-1601) "Common Eclipse Runtime" [Active]
org.eclipse.equinox.concurrent (1.2.100.v20211021-1418) "Equinox Concurrent API" [Active]
org.eclipse.equinox.console (1.4.500.v20211021-1418) "Console plug-in" [Active]
org.eclipse.equinox.event (1.6.100.v20211021-1418) "Event Admin" [Active]
org.eclipse.equinox.frameworkadmin (2.2.100.v20220817-1208) "Equinox Framework Admin" [Active]
org.eclipse.equinox.frameworkadmin.equinox (1.2.200.v20220315-2155) "Equinox Framework Admin for Equinox" [Active]
org.eclipse.equinox.http.jetty (3.8.100.v20211021-1418) "Jetty Http Service" [Starting]
org.eclipse.equinox.http.registry (1.3.200.v20220720-2012) "Http Service Registry Extensions" [Resolved]
org.eclipse.equinox.http.servlet (1.7.300.v20220726-1300) "Http Services

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org.eclipse.equinox.jsp.jasper (1.1.700.v20220801-1124) "Jasper Jsp Support Bundle" [Starting]
org.eclipse.equinox.jsp.jasper.registry (1.2.100.v20211021-1418) "Jasper Jsp Registry Support Plug-in" [Starting]
org.eclipse.equinox.launcher (1.6.400.v20210924-0641) "Equinox Launcher" [Resolved]
org.eclipse.equinox.launcher.cocoa.macosx.x86_64 (1.2.600.v20220720-1916) "Equinox Launcher MacOSX Cocoa Fragment" [Resolved]
org.eclipse.equinox.p2.artifact.repository (1.4.500.v20220420-1427) "Equinox Provisioning Artifact Repository Support" [Active]
org.eclipse.equinox.p2.console (1.2.0.v20210315-2042) "Equinox Provisioning Console" [Starting]
org.eclipse.equinox.p2.core (2.9.200.v20220817-1208) "Equinox Provisioning Core" [Active]
org.eclipse.equinox.p2.director (2.5.400.v20220817-1208) "Equinox Provisioning Director" [Active]
org.eclipse.equinox.p2.director.app (1.2.200.v20220802-0626) "Equinox Provisioning Director Application" [Starting]
org.eclipse.equinox.p2.directorywatcher (1.3.0.v20210316-1209) "Equinox Provisioning Directory Watcher" [Active]
org.eclipse.equinox.p2.discovery (1.2.0.v20210315-2042) "Equinox Provisioning Discovery" [Resolved]
org.eclipse.equinox.p2.discovery.compatibility (1.2.200.v20220210-1157) "Equinox Provisioning Discovery" [Starting]
org.eclipse.equinox.p2.engine (2.7.500.v20220817-1208) "Equinox Provisioning Engine" [Active]
org.eclipse.equinox.p2.extensionlocation (1.4.100.v20220213-0541) "Equinox Provisioning Extension Location Repository Support" [Starting]
org.eclipse.equinox.p2.garbagecollector (1.2.0.v20210316-1209) "Equinox Provisioning Garbage Collector" [Starting]
org.eclipse.equinox.p2.jarprocessor (1.2.300.v20220420-1427) "Equinox Provisioning JAR Processor" [Resolved]
org.eclipse.equinox.p2.metadata (2.6.300.v20220817-1208) "Equinox Provisioning Metadata" [Active]
org.eclipse.equinox.p2.metadata.repository (1.4.100.v20220329-1456) "Equinox Provisioning Metadata Repository" [Active]
org.eclipse.equinox.p2.operations (2.6.100.v20220817-1208) "Equinox Provisioning Operations API" [Active]
org.eclipse.equinox.p2.publisher (1.7.200.v20220805-0804) "Equinox Provisioning Publisher Infrastructure" [Starting]
org.eclipse.equinox.p2.publisher.eclipse (1.4.100.v20220420-1427) "Equinox Provisioning Publisher for Eclipse" [Starting]
org.eclipse.equinox.p2.reconciler.dropins (1.4.100.v20211217-1131) "Equinox Provisioning Drop-in" [Active]
org.eclipse.equinox.p2.repository (2.6.200.v20220819-1949) "Equinox Provisioning Repository" [Active]
org.eclipse.equinox.p2.repository.tools (2.3.100.v20220504-1755) "Equinox

Provisioning Repository Tools" [Starting]
org.eclipse.equinox.p2.touchpoint.eclipse (2.3.300.v20220817-1208) "Equinox Provisioning Eclipse Touchpoint" [Starting]
org.eclipse.equinox.p2.touchpoint.natives (1.4.400.v20220506-1821) "Equinox Provisioning Native Touchpoint" [Starting]
org.eclipse.equinox.p2.transport.ecf (1.3.300.v20220512-1321) "Equinox Provisioning ECF based Transport" [Active]
org.eclipse.equinox.p2.ui (2.7.600.v20220817-1208) "Equinox Provisioning UI Support" [Active]
org.eclipse.equinox.p2.ui.discovery (1.2.300.v20210813-0655) "Equinox Provisioning Discovery UI" [Resolved]
org.eclipse.equinox.p2.ui.importexport (1.3.300.v20220329-1456) "Equinox Provisioning Import and Export" [Starting]
org.eclipse.equinox.p2.ui.sdk (1.2.100.v20220814-1551) "Equinox Provisioning Platform Update Support" [Active]
org.eclipse.equinox.p2.ui.sdk.scheduler (1.5.400.v20220805-0804) "Equinox Provisioning Platform Automatic Update Support" [Active]
org.eclipse.equinox.p2.updatechecker (1.3.0.v20210315-2228) "Equinox Provisioning Update Checker" [Active]
org.eclipse.equinox.p2.updatestie (1.2.300.v20220420-1427) "Equinox Provisioning Legacy Update Site Support" [Starting]
org.eclipse.equinox.preferences (3.10.100.v20220710-1223) "Eclipse Preferences Mechanism" [Active]
org.eclipse.equinox.registry (3.11.200.v20220817-1601) "Extension Registry Support" [Active]
org.eclipse.equinox.security (1.3.1000.v20220801-1135) "Equinox Java Authentication and Authorization Service (JAAS)" [Active]
org.eclipse.equinox.security.macosx (1.101.400.v20210427-1958) "OS X Keystore service integration" [Resolved]
org.eclipse.equinox.security.ui (1.3.300.v20220710-1223) "Equinox Security Default UI" [Starting]
org.eclipse.equinox.simpleconfigurator (1.4.100.v20220620-1617) "Simple Configurator" [Active]
org.eclipse.equinox.simpleconfigurator.manipulator (2.2.0.v20210315-2228) "Simple Configurator Manipulator" [Active]
org.eclipse.gef (3.12.100.202206170857) "GEF Classic GEF (MVC)" [Starting]
org.eclipse.help (3.9.100.v20210721-0601) "Help System Core" [Active]
org.eclipse.help.base (4.3.800.v20220831-1800) "Help System Base" [Starting]
org.eclipse.help.ui (4.4.100.v20220619-1918) "Help System UI" [Starting]
org.eclipse.help.webapp (3.10.800.v20220714-2106) "Help System Webapp" [Starting]
org.eclipse.jdt (3.18.1300.v20220831-1800) "Eclipse Java Development Tools" [Resolved]
org.eclipse.jdt.annotation (1.2.100.v20220826-1026) "JDT Annotations for Enhanced Null Analysis" [Resolved]
org.eclipse.jdt.annotation (2.2.700.v20220826-1026) "JDT Annotations for Enhanced Null Analysis" [Resolved]
org.eclipse.jdt.apt.core (3.7.50.v20210914-1429) "Java Annotation Processing

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org.eclipse.jdt.apt.pluggable.core (1.3.0.v20210618-1653) "Java Compiler Apt IDE" [Starting]
org.eclipse.jdt.apt.ui (3.7.0.v20210620-1751) "Java Annotation Processing UI" [Starting]
org.eclipse.jdt.compiler.apt (1.4.200.v20220802-0458) "Java Compiler Apt" [Resolved]
org.eclipse.jdt.compiler.tool (1.3.200.v20220802-0458) "Java Compiler Tool Support" [Resolved]
org.eclipse.jdt.core (3.31.0.v20220831-1439) "Java Development Tools Core" [Active]
org.eclipse.jdt.core.formatterapp (1.1.0.v20210618-1653) "Java Development Tools Formatter Application" [Starting]
org.eclipse.jdt.core.manipulation (1.16.200.v20220824-0551) "Java Code Manipulation Functionality" [Active]
org.eclipse.jdt.debug (3.19.300.v20220812-1529) "JDI Debug Model" [Starting]
org.eclipse.jdt.debug.ui (3.12.800.v20220813-1738) "JDI Debug UI" [Starting]
org.eclipse.jdt.doc.user (3.15.1500.v20220829-1143) "Eclipse Java Development User Guide" [Resolved]
org.eclipse.jdt.junit (3.15.0.v20220815-1918) "Java Development Tools JUnit support" [Starting]
org.eclipse.jdt.junit.core (3.11.400.v20220715-1030) "Java Development Tools JUnit core support" [Active]
org.eclipse.jdt.junit.runtime (3.7.0.v20220609-1843) "Java Development Tools JUnit Runtime Support" [Resolved]
org.eclipse.jdt.junit4.runtime (1.3.0.v20220609-1843) "Java Development Tools JUnit4 Runtime Support" [Resolved]
org.eclipse.jdt.junit5.runtime (1.1.0.v20220715-1030) "Java Development Tools JUnit5 Runtime Support" [Resolved]
org.eclipse.jdt.launching (3.19.700.v20220730-1850) "Java Development Tools Launching Support" [Active]
org.eclipse.jdt.launching.macosx (3.5.0.v20220610-1811) "Mac OS X Launcher" [Active]
org.eclipse.jdt.launching.ui.macosx (1.3.0.v20220610-1811) "Mac OS X UI Launching Support" [Starting]
org.eclipse.jdt.ui (3.27.0.v20220824-0714) "Java Development Tools UI" [Active]
org.eclipse.jem (2.0.600.v201903222024) "Java EMF Model" [Active]
org.eclipse.jem.beaninfo (2.0.300.v201903222024) "Java EMF Model BeanInfo (Introspection) Support" [Starting]
org.eclipse.jem.beaninfo.vm (2.1.0.v202101081429) "JEM Beaninfo VM Jar" [Resolved]
org.eclipse.jem.beaninfo.vm.common (2.1.0.v202101081429) "JEM Beaninfo Common Jar" [Resolved]
org.eclipse.jem.proxy (2.1.0.v202101081429) "Java EMF Model Proxy Support" [Starting]
org.eclipse.jem.util (2.1.300.v202103232321) "Java EMF Model Utilities" [Active]
org.eclipse.jem.workbench (2.1.0.v202101081429) "Java EMF Model Workbench Support" [Active]
org.eclipse.jetty.http (10.0.11) "Jetty :: Http Utility" [Resolved]
org.eclipse.jetty.io (10.0.11) "Jetty :: IO Utility" [Resolved]
org.eclipse.jetty.jndi (10.0.11) "Jetty :: JNDI Naming" [Resolved]
org.eclipse.jetty.plus (10.0.11) "Jetty :: Plus" [Resolved]

org.eclipse.jetty.security (10.0.11) "Jetty :: Security" [Resolved]
org.eclipse.jetty.server (10.0.11) "Jetty :: Server Core" [Resolved]
org.eclipse.jetty.servlet (10.0.11) "Jetty :: Servlet Handling" [Resolved]
org.eclipse.jetty.util (10.0.11) "Jetty :: Utilities" [Resolved]
org.eclipse.jetty.util.ajax (10.0.11) "Jetty :: Utilities :: Ajax(JSON)" [Resolved]
org.eclipse.jetty.webapp (10.0.11) "Jetty :: Webapp Application Support" [Resolved]
org.eclipse.jetty.xml (10.0.11) "Jetty :: XML utilities" [Resolved]
org.eclipse.jface (3.27.0.v20220817-1444) "JFace" [Resolved]
org.eclipse.jface.databinding (1.13.0.v20210619-1146) "JFace Data Binding for SWT and JFace" [Resolved]
org.eclipse.jface.notifications (0.5.0.v20220401-0716) "Notification API" [Resolved]
org.eclipse.jface.text (3.21.0.v20220817-1340) "JFace Text" [Resolved]
org.eclipse.jgit (6.3.0.202209071007-r) "JGit Core" [Resolved]
org.eclipse.jgit.archive (6.3.0.202209071007-r) "JGit Archive Formats" [Starting]
org.eclipse.jgit.gpg.bc (6.3.0.202209071007-r) "JGit Core" [Resolved]
org.eclipse.jgit.http.apache (6.3.0.202209071007-r) "JGit Apache httpclient based HTTP support" [Active]
org.eclipse.jgit.ssh.apache (6.3.0.202209071007-r) "JGit SSH support based on Apache MINA sshd" [Active]
org.eclipse.jgit.ssh.apache.agent (6.3.0.202209071007-r) "JGit SSH support based on Apache MINA sshd" [Resolved]
org.eclipse.jsch.core (1.4.0.v20220813-1037) "JSch Core" [Active]
org.eclipse.jsch.ui (1.4.200.v20220812-1406) "JSch UI" [Starting]
org.eclipse.json (1.1.100.v201901071922) "Structured Source JSON Model" [Starting]
org.eclipse.jst.common.annotations.controller (1.1.300.v201903222024) "Annotation Controller Plug-in" [Resolved]
org.eclipse.jst.common.annotations.core (1.1.300.v201903222024) "Annotation Core Plug-in" [Resolved]
org.eclipse.jst.common.annotations.ui (1.1.300.v202007170603) "Annotations UI Plug-in" [Starting]
org.eclipse.jst.common.frameworks (1.1.701.v201903222024) "Integration Plug-in" [Active]
org.eclipse.jst.common.project.facet.core (1.12.100.v202208260526) "Eclipse Faceted Project Framework JDT Enablement" [Active]
org.eclipse.jst.common.project.facet.ui (1.4.511.v202007142017) "Eclipse Faceted Project Framework JDT Enablement UI" [Starting]
org.eclipse.jst.common.ui (1.0.301.v201903222024) "Common JST UI Plug-in" [Starting]
org.eclipse.jst.ejb.doc.user (1.1.301.v201903222024) "EJB docs" [Starting]
org.eclipse.jst.ejb.ui (1.1.911.v201903222024) "WTP EJB UI Plug-in" [Starting]
org.eclipse.jst.ejb.ui.infopop (1.0.300.v201903222024) "EJB infopop" [Starting]
org.eclipse.jst.j2ee (1.2.600.v202111210731) "Java EE Component" [Active]
org.eclipse.jst.j2ee.core (1.4.400.v202205260129) "J2EE Core Component" [Active]
org.eclipse.jst.j2ee.doc.user (1.1.400.v202101072335) "J2EE tools documentation" [Resolved]
org.eclipse.jst.j2ee.ejb (1.1.901.v201903222024) "EJB component Plug-in" [Starting]
org.eclipse.jst.j2ee.ejb.annotation.model (1.1.500.v201910291429) "EJB Annotation

Model Plug-in" [Starting]
org.eclipse.jst.j2ee.ejb.annotations.emitter (1.1.300.v201903222024) "EJB Emitter Plug-in" [Starting]
org.eclipse.jst.j2ee.ejb.annotations.ui (1.2.0.v202101081429) "EJB Annotations Ui Plug-in" [Starting]
org.eclipse.jst.j2ee.ejb.annotations.xdoclet (1.2.401.v202204060243) "Xdoclet Annotations Plug-in" [Starting]
org.eclipse.jst.j2ee.infopop (1.0.300.v201903222024) "J2EE tools infopops" [Resolved]
org.eclipse.jst.j2ee.jca (1.1.1000.v201904091346) "JCA Plug-in" [Starting]
org.eclipse.jst.j2ee.jca.ui (1.1.601.v201904091346) "WTP JCA UI Plug-in" [Starting]
org.eclipse.jst.j2ee.navigator.ui (1.1.1000.v202204060258) "J2EE Extensions to Common Navigator" [Starting]
org.eclipse.jst.j2ee.ui (1.1.1100.v202205260135) "WTP J2EE UI Plug-in" [Starting]
org.eclipse.jst.j2ee.web (1.2.100.v202205260542) "Web Plug-in" [Active]
org.eclipse.jst.j2ee.webservice (1.1.800.v202204231553) "Web Service Plug-in" [Starting]
org.eclipse.jst.j2ee.webservice.ui (1.1.800.v202103311810) "WTP Webservice UI Plug-in" [Starting]
org.eclipse.jst.j2ee.xdoclet.runtime (1.2.0.v202101081429) "XDocletRuntime Plug-in" [Starting]
org.eclipse.jst.jee (1.0.1100.v202204072206) "Java EE common Plug-in" [Starting]
org.eclipse.jst.jee.ejb (1.0.500.v201903222025) "Java EE Ejb Plug-in" [Starting]
org.eclipse.jst.jee.ui (1.0.1200.v202205260129) "Eclipse Java EE Developer Tools" [Starting]
org.eclipse.jst.jee.web (1.0.1000.v202205260129) "Java EE Web Plug-in" [Starting]
org.eclipse.jst.jsf.doc.user (1.5.0.v201902121810) "JSF Tools - User Guide" [Starting]
org.eclipse.jst.jsp.core (1.4.400.v202208280232) "Structured Source JSP Model" [Starting]
org.eclipse.jst.jsp.ui (1.3.300.v202207121749) "SSE JSP Source Editor" [Starting]
org.eclipse.jst.jsp.ui.infopop (1.0.200.v201903222120) "JSP tools infopops" [Resolved]
org.eclipse.jst.server.core (1.2.800.v202206110154) "Java Server Support" [Active]
org.eclipse.jst.server.generic.core (1.0.1000.v202011161356) "Generic Server Plugin" [Starting]
org.eclipse.jst.server.generic.ui (1.0.700.v201910252115) "Generic Server Plugin UI" [Starting]
org.eclipse.jst.server.preview.adapter (1.1.800.v202204301608) "JEE Preview Server Support" [Starting]
org.eclipse.jst.server.tomcat.core (1.2.0.v202208260501) "Apache Tomcat Support" [Active]
org.eclipse.jst.server.tomcat.ui (1.1.1000.v202104010136) "Apache Tomcat UI Support" [Starting]
org.eclipse.jst.server.ui (1.1.500.v202103180201) "Java Server UI Support" [Starting]
org.eclipse.jst.server.ui.doc.user (1.0.600.v201901310132) "Server Tools documentation for J2EE Standard Tools" [Starting]
org.eclipse.jst.server.ui.infopop (1.0.500.v201901310132) "Server Tools infopops for J2EE Standard Tools" [Resolved]
org.eclipse.jst.servlet.ui (1.1.1500.v202208260434) "WTP Servlet UI Plug-in" [Starting]

org.eclipse.jst.servlet.ui.infopop (1.0.500.v201903222024) "Servlet infopop" [Starting]
org.eclipse.jst.standard.schemas (1.2.400.v202101070609) "Java EE Related Schemas" [Resolved]
org.eclipse.jst.ws (1.0.1000.v202104210249) "Web Services" [Starting]
org.eclipse.jst.ws.axis.consumption.core (1.0.600.v201910301957) "Web service Axis Consumption Core (Deprecated)" [Starting]
org.eclipse.jst.ws.axis.consumption.ui (1.0.1000.v201910301957) "Webservice Axis Consumption UI (Deprecated)" [Starting]
org.eclipse.jst.ws.axis.creation.ui (1.0.1100.v202111210735) "Webservice Axis Creation UI (Deprecated)" [Starting]
org.eclipse.jst.ws.axis.infopop (1.0.400.v201903050508) "Web services Axis context sensitive help" [Starting]
org.eclipse.jst.ws.axis.ui.doc.user (1.1.200.v201903222115) "Axis Web services documentation" [Resolved]
org.eclipse.jst.ws.consumption (1.0.1500.v202111210735) "Web Services Consumption" [Starting]
org.eclipse.jst.ws.consumption.infopop (1.0.400.v201903050508) "Web services UI" [Resolved]
org.eclipse.jst.ws.consumption.ui (1.1.1100.v202111210735) "Web Services Consumption Graphical User Interface" [Starting]
org.eclipse.jst.ws.consumption.ui.doc.user (1.0.700.v201903222115) "Web service consumption documentation" [Starting]
org.eclipse.jst.ws.creation.ejb.ui (1.0.300.v201910301957) "Web Services Creation EJB Graphical User Interface" [Resolved]
org.eclipse.jst.ws.creation.ui (1.0.1001.v202103201626) "Web Services Creation Graphical User Interface" [Starting]
org.eclipse.jst.ws.doc.user (1.0.700.v201903222115) "Web Services UI" [Resolved]
org.eclipse.jst.ws.infopop (1.0.400.v201903050508) "Web services UI" [Resolved]
org.eclipse.jst.ws.jaxrs.core (1.0.851.v202101130222) "JAX-RS Tools - Core" [Active]
org.eclipse.jst.ws.jaxrs.ui (1.0.801.v201906251834) "JAX-RS Tools - UI" [Starting]
org.eclipse.jst.ws.uddiregistry (1.1.0.v201910301957) "Web Services Universal Description Discovery and Integration Registry" [Starting]
org.eclipse.jst.ws.ui (1.1.1.v202103201626) "Web Services Graphical User Interface" [Starting]
org.eclipse.justj.openjdk.hotspot.jre.full (17.0.4.v20220903-1038) "JustJ Adoptium OpenJDK Hotspot JRE Complete" [Resolved]
org.eclipse.justj.openjdk.hotspot.jre.full.macosx.x86_64 (17.0.4.v20220903-1038) "JustJ Adoptium OpenJDK Hotspot JRE Complete for MacOS x86 64 bit" [Resolved]
org.eclipse.lsp4e (0.14.0.202208241334) "Language Server Protocol client for Eclipse IDE (Incubation)" [Active]
org.eclipse.lsp4e.debug (0.14.0.202208051450) "Debug Adapter client for Eclipse IDE (Incubation)" [Starting]
org.eclipse.lsp4j (0.15.0.v20220805-0131) "org.eclipse.lsp4j" [Resolved]
org.eclipse.lsp4j.debug (0.15.0.v20220805-0131) "org.eclipse.lsp4j.debug" [Resolved]
org.eclipse.lsp4j.jsonrpc (0.15.0.v20220805-0131) "org.eclipse.lsp4j.jsonrpc" [Resolved]
org.eclipse.lsp4j.jsonrpc.debug (0.15.0.v20220805-0131) "org.eclipse.lsp4j.jsonrpc.debug" [Resolved]

org.eclipse.ltk.core.refactoring (3.13.0.v20220822-0502) "Refactoring Core" [Starting]
org.eclipse.ltk.ui.refactoring (3.12.200.v20220808-2221) "Refactoring UI" [Starting]
org.eclipse.m2e apt.core (2.0.0.20220706-1958) "M2E JDT Annotation Processing
Configurator Core" [Starting]
org.eclipse.m2e apt.ui (2.0.0.20220703-1731) "M2E JDT Annotation Processing
Configurator UI" [Starting]
org.eclipse.m2e archetype.common (3.2.1.20220620-0741) "M2E Maven Archetype
Common" [Resolved]
org.eclipse.m2e binaryproject (2.0.0.20220705-1221) "M2E Binary Project
Core" [Starting]
org.eclipse.m2e binaryproject.ui (2.0.0.20220705-1221) "M2E Binary Project
UI" [Starting]
org.eclipse.m2e core (2.0.3.20220904-1703) "M2E Maven Integration for Eclipse
Core" [Active]
org.eclipse.m2e core.ui (2.0.0.20220726-0935) "M2E Maven Integration for Eclipse
UI" [Starting]
org.eclipse.m2e discovery (2.0.0.20220705-1608) "M2E Marketplace
Discovery" [Starting]
org.eclipse.m2e editor (2.0.1.20220809-1501) "M2E Maven POM File Editor" [Starting]
org.eclipse.m2e editor.lemminx (2.0.0.20220729-1256) "M2E Maven POM File Editor
using Wild Web Developer, Lemminx and Maven LS extension (requires Incubating
components)" [Resolved]
org.eclipse.m2e jdt (2.0.1.20220901-1459) "M2E JDT Integration" [Active]
org.eclipse.m2e jdt.ui (2.0.0.20220705-1221) "M2E JDT Integration UI" [Starting]
org.eclipse.m2e launching (2.0.1.20220828-2046) "M2E Launching" [Starting]
org.eclipse.m2e logback.appender (2.0.0.20220705-1221) "M2E Logback
Appender" [Resolved]
org.eclipse.m2e logback.configuration (2.0.0.20220705-1221) "M2E Logback
Configuration" [Active]
org.eclipse.m2e maven.runtime (3.8.601.20220820-1147) "M2E Embedded Maven
Runtime (includes Incubating components)" [Resolved]
org.eclipse.m2e mavenarchiver (2.0.1.20220805-1816) "m2e connector for the
mavenarchiver and pom properties" [Resolved]
org.eclipse.m2e model.edit (2.0.0.20220703-1731) "M2E Maven Project Model
Edit" [Starting]
org.eclipse.m2e profiles.core (2.0.0.20220703-1731) "M2E Maven Profiles
Management" [Starting]
org.eclipse.m2e profiles.ui (2.0.0.20220705-1221) "M2E Maven Profiles Management
UI" [Starting]
org.eclipse.m2e refactoring (2.0.1.20220809-1501) "M2E Refactoring" [Starting]
org.eclipse.m2e scm (2.0.0.20220705-1221) "M2E Source Code
Management" [Resolved]
org.eclipse.m2e sourcelookup (2.0.0.20220705-1608) "M2E Source Lookup
Core" [Starting]
org.eclipse.m2e sourcelookup.ui (2.0.0.20220705-1221) "M2E Source Lookup
UI" [Starting]
org.eclipse.m2e workspace.cli (0.3.1) "m2e-workspace" [Resolved]

org.eclipse.m2e.wtp (1.5.2.20220906-1452) "Maven Integration for Eclipse WTP" [Starting]
org.eclipse.m2e.wtp.overlay (1.5.0.20220805-2025) "Overlay support for Eclipse WTP" [Starting]
org.eclipse.m2e.wtp.overlay.ui (1.5.0.20220805-2025) "Overlay support for Eclipse WTP - UI" [Starting]
org.eclipse.mylyn.wikitext (3.0.42.20220107230029) "Mylyn WikiText" [Resolved]
org.eclipse.mylyn.wikitext.ant (3.0.42.20220107230029) "Mylyn WikiText Ant Tasks" [Resolved]
org.eclipse.mylyn.wikitext.asciidoc (3.0.42.20220107230029) "Mylyn WikiText AsciiDoc" [Resolved]
org.eclipse.mylyn.wikitext.asciidoc.ui (3.0.42.202201072301) "Mylyn WikiText AsciiDoc UI" [Resolved]
org.eclipse.mylyn.wikitext.confluence (3.0.42.20220107230029) "Mylyn WikiText Confluence" [Resolved]
org.eclipse.mylyn.wikitext.confluence.ui (3.0.42.202201072301) "Mylyn WikiText Confluence UI" [Resolved]
org.eclipse.mylyn.wikitext.help.ui (3.0.42.202201072301) "Mylyn WikiText Help UI" [Resolved]
org.eclipse.mylyn.wikitext.html (3.0.42.20220107230029) "Mylyn WikiText HTML" [Resolved]
org.eclipse.mylyn.wikitext.markdown (3.0.42.20220107230029) "Mylyn WikiText Markdown" [Resolved]
org.eclipse.mylyn.wikitext.markdown.ui (3.0.42.202201072301) "Mylyn WikiText Markdown UI" [Resolved]
org.eclipse.mylyn.wikitext.mediawiki (3.0.42.20220107230029) "Mylyn WikiText MediaWiki" [Resolved]
org.eclipse.mylyn.wikitext.mediawiki.ui (3.0.42.202201072301) "Mylyn WikiText MediaWiki UI" [Resolved]
org.eclipse.mylyn.wikitext.osgi (3.0.42.202201072301) "Mylyn WikiText OSGi Plugin" [Starting]
org.eclipse.mylyn.wikitext.textile (3.0.42.20220107230029) "Mylyn WikiText Textile" [Resolved]
org.eclipse.mylyn.wikitext.textile.ui (3.0.42.202201072301) "Mylyn WikiText Textile UI" [Resolved]
org.eclipse.mylyn.wikitext.tracwiki (3.0.42.20220107230029) "Mylyn WikiText TracWiki" [Resolved]
org.eclipse.mylyn.wikitext.tracwiki.ui (3.0.42.202201072301) "Mylyn WikiText TracWiki UI" [Resolved]
org.eclipse.mylyn.wikitext.twiki (3.0.42.20220107230029) "Mylyn WikiText Twiki" [Resolved]
org.eclipse.mylyn.wikitext.twiki.ui (3.0.42.202201072301) "Mylyn WikiText Twiki UI" [Resolved]
org.eclipse.mylyn.wikitext.ui (3.0.42.202201072301) "Mylyn WikiText UI" [Starting]
org.eclipse.nebula.widgets.tablecombo (1.2.0.202208171909) "Nebula TableCombo Plugin" [Resolved]
org.eclipse.oomph.base (1.17.0.v20220821-0916) "Oomph Base Model" [Active]

org.eclipse.oomph.base.edit (1.15.0.v20220601-1043) "Oomph Base Edit Support" [Active]
org.eclipse.oomph.extractor.lib (1.9.0.v20220421-1218) "Oomph Extractor Library" [Resolved]
org.eclipse.oomph.jreinfo (1.17.0.v20220520-1242) "Oomph JRE Info" [Starting]
org.eclipse.oomph.jreinfo.ui (1.15.0.v20220520-1242) "Oomph JRE Info UI" [Active]
org.eclipse.oomph.p2 (1.16.0.v20220421-1218) "Oomph P2 Management" [Active]
org.eclipse.oomph.p2.core (1.23.0.v20220822-1127) "Oomph P2 Management Core" [Active]
org.eclipse.oomph.p2.doc (1.13.0.v20220421-1218) "Oomph P2 Management Documentation" [Resolved]
org.eclipse.oomph.p2.edit (1.16.0.v20220421-1218) "Oomph P2 Management Edit Support" [Active]
org.eclipse.oomph.p2.ui (1.18.0.v20220421-1218) "Oomph P2 Management UI" [Active]
org.eclipse.oomph.predicates (1.14.0.v20220421-1218) "Oomph Predicates Model" [Active]
org.eclipse.oomph.predicates.edit (1.13.0.v20220812-0835) "Oomph Predicates Edit Support" [Active]
org.eclipse.oomph.preferences (1.13.0.v20220421-1218) "Oomph Preference Management" [Active]
org.eclipse.oomph.resources (1.17.0.v20220619-0650) "Oomph Resources Model" [Active]
org.eclipse.oomph.resources.edit (1.12.0.v20220421-1218) "Oomph Resources Edit Support" [Starting]
org.eclipse.oomph.setup (1.25.0.v20220903-1123) "Oomph Setup" [Active]
org.eclipse.oomph.setup.core (1.25.0.v20220822-1127) "Oomph Setup Core" [Active]
org.eclipse.oomph.setup.doc (1.13.0.v20220520-0625) "Oomph Setup Documentation" [Resolved]
org.eclipse.oomph.setup.edit (1.16.0.v20220421-1218) "Oomph Setup Edit Support" [Active]
org.eclipse.oomph.setup.editor (1.23.0.v20220905-0631) "Oomph Setup Editor" [Starting]
org.eclipse.oomph.setup.p2 (1.19.0.v20220607-1104) "Oomph Setup P2" [Active]
org.eclipse.oomph.setup.p2.edit (1.14.0.v20220421-1218) "Oomph Setup P2 Edit Support" [Active]
org.eclipse.oomph.setup.sync (1.14.0.v20220421-1218) "Oomph Setup Synchronizer" [Active]
org.eclipse.oomph.setup.ui (1.25.0.v20220905-0631) "Oomph Setup UI" [Active]
org.eclipse.oomph.setup.ui.questionnaire (1.13.0.v20220421-1218) "Oomph Setup UI Questionnaire" [Starting]
org.eclipse.oomph.ui (1.18.0.v20220907-0739) "Oomph Common UI" [Active]
org.eclipse.oomph.util (1.19.0.v20220616-0849) "Oomph Common Utilities" [Active]
org.eclipse.oomph.workingsets (1.12.0.v20220421-1218) "Oomph Dynamic Working Sets" [Active]
org.eclipse.oomph.workingsets.edit (1.12.0.v20220421-1218) "Oomph Dynamic Working Sets Edit Support" [Starting]
org.eclipse.oomph.workingsets.editor (1.13.0.v20220421-1218) "Oomph Dynamic

Working Sets Editor" [Active]
org.eclipse.osgi (3.18.100.v20220817-1601) "OSGi System Bundle" [Active]
org.eclipse.osgi.compatibility.state (1.2.700.v20220722-0431) "Equinox State and Resolver Compatibility Fragment" [Resolved]
org.eclipse.osgi.services (3.11.0.v20220618-0838) "OSGi Release 4.2.0 Services" [Resolved]
org.eclipse.osgi.util (3.7.100.v20220615-1601) "OSGi Release 4.2.0 Utility Classes" [Resolved]
org.eclipse.platform (4.25.0.v20220831-1800) "Eclipse Platform" [Resolved]
org.eclipse.platform.doc.user (4.25.0.v20220830-0901) "Eclipse Platform User Guide" [Resolved]
org.eclipse.rcp (4.25.0.v20220831-1800) "Eclipse RCP" [Starting]
org.eclipse.search (3.14.200.v20220817-1340) "Search Support" [Starting]
org.eclipse.swt (3.121.0.v20220829-1402) "Standard Widget Toolkit" [Resolved]
org.eclipse.swt.cocoa.macosx.x86_64 (3.121.0.v20220829-1402) "Standard Widget Toolkit for Mac OS X (Cocoa)" [Resolved]
org.eclipse.team.core (3.9.500.v20220817-1539) "Team Support Core" [Active]
org.eclipse.team.genericeditor.diff.extension (1.1.100.v20220812-1406) "Diff Extension for Generic Editor" [Resolved]
org.eclipse.team.ui (3.9.400.v20220817-1539) "Team Support UI" [Active]
org.eclipse.text (3.12.200.v20220817-1340) "Text" [Resolved]
org.eclipse.text.quicksearch (1.1.300.v20211203-1705) "Quick Search" [Starting]
org.eclipse.tips.core (0.2.0.v20210317-2216) "Tip of the Day core plugin" [Resolved]
org.eclipse.tips.ide (0.2.100.v20220811-0542) "IDE Enablement for Tip of the Day" [Active]
org.eclipse.tips.json (0.2.200.v20220619-1918) "Tip of the Day Json Provider" [Resolved]
org.eclipse.tips.ui (0.2.0.v20210317-2216) "Tip of the Day UI" [Resolved]
org.eclipse.tm.terminal.connector.local (4.7.300.202204200013) "Terminal Local Connector" [Starting]
org.eclipse.tm.terminal.connector.process (4.8.100.202204200013) "Terminal Process Connector" [Starting]
org.eclipse.tm.terminal.connector.ssh (4.7.300.202204200013) "Terminal SSH Connector" [Starting]
org.eclipse.tm.terminal.connector.telnet (4.7.200.202204200013) "Terminal Telnet Connector" [Starting]
org.eclipse.tm.terminal.control (5.3.200.202204200013) "Terminal Control (Embeddable Widget)" [Starting]
org.eclipse.tm.terminal.view.core (4.8.300.202204200013) "Terminal View Core" [Starting]
org.eclipse.tm.terminal.view.ui (4.10.300.202204200013) "Terminal View" [Active]
org.eclipse.tm4e.core (0.5.0.202206232130) "TextMate support in Java" [Starting]
org.eclipse.tm4e.languageconfiguration (0.5.0.202206241118) "TextMate support in Eclipse IDE - Language Configurations" [Starting]
org.eclipse.tm4e.registry (0.6.0.202206241118) "TextMate support in Eclipse IDE - Registry management" [Starting]
org.eclipse.tm4e.ui (0.6.0.202206241118) "TextMate support in Eclipse IDE -

UI" [Starting]
org.eclipse.ui (3.201.100.v20220826-1037) "Eclipse UI" [Active]
org.eclipse.ui.browser (3.7.200.v20220826-1037) "Browser Support" [Starting]
org.eclipse.ui.cheatsheets (3.7.400.v20220715-1705) "Cheat Sheets" [Starting]
org.eclipse.ui.cocoa (1.2.400.v20191217-1850) "Eclipse UI MacOS X
Enhancements" [Resolved]
org.eclipse.ui.console (3.11.300.v20220811-1921) "Console" [Starting]
org.eclipse.ui.editors (3.14.400.v20220730-1844) "Default Text Editor" [Active]
org.eclipse.ui.externaltools (3.5.200.v20220618-1805) "External Tools" [Starting]
org.eclipse.ui.forms (3.11.400.v20220817-1444) "Eclipse Forms" [Resolved]
org.eclipse.ui.genericeditor (1.2.200.v20211217-1247) "Generic and Extensible Text
Editor" [Starting]
org.eclipse.ui.ide (3.19.100.v20220820-0412) "Eclipse IDE UI" [Active]
org.eclipse.ui.ide.application (1.4.500.v20220623-0641) "Eclipse IDE UI
Application" [Active]
org.eclipse.ui.intro (3.6.600.v20220619-1918) "Welcome Framework" [Starting]
org.eclipse.ui.intro.quicklinks (1.1.200.v20220619-1918) "Quicklinks for the Welcome
Framework" [Starting]
org.eclipse.ui.intro.universal (3.4.300.v20220619-1918) "Universal Welcome" [Starting]
org.eclipse.ui.monitoring (1.2.200.v20220429-1040) "UI Freeze Monitoring" [Active]
org.eclipse.ui.navigator (3.10.300.v20220817-1444) "Common Navigator View" [Active]
org.eclipse.ui.navigator.resources (3.8.400.v20220203-1803) "Navigator Workbench
Components" [Starting]
org.eclipse.ui.net (1.4.100.v20220812-1406) "Internet Connection Management
UI" [Active]
org.eclipse.ui.themes (1.2.2000.v20220614-2134) "Eclipse SDK Themes" [Active]
org.eclipse.ui.views (3.11.200.v20220817-1444) "Views" [Resolved]
org.eclipse.ui.views.log (1.3.300.v20220717-1456) "Log View" [Starting]
org.eclipse.ui.views.properties.tabbed (3.9.200.v20220717-1456) "Tabbed Properties
View" [Resolved]
org.eclipse.ui.workbench (3.126.0.v20220823-0718) "Eclipse Workbench" [Active]
org.eclipse.ui.workbench.texteditor (3.16.600.v20220809-1658) "Text Editor
Framework" [Active]
org.eclipse.update.configurator (3.4.900.v20220718-1722) "Install/Update
Configurator" [Active]
org.eclipse.urischeme (1.2.100.v20211001-1648) "Eclipse URI Scheme
Handling" [Resolved]
org.eclipse.userstorage (1.2.0.v20210517-0327) "Eclipse User Storage" [Active]
org.eclipse.userstorage.oauth (1.1.0.v20190307-0457) "OAuth support for Eclipse User
Storage" [Active]
org.eclipse.userstorage.ui (1.1.0.v20190307-0457) "Eclipse User Storage UI" [Starting]
org.eclipse.wildwebdeveloper (0.6.0.202206151321) "Wild Web Developer: web
development in Eclipse IDE" [Starting]
org.eclipse.wildwebdeveloper.embedder.node (0.3.0.202206231201) "Manager for
embedded Node.js" [Starting]
org.eclipse.wildwebdeveloper.embedder.node.macos.x86_64 (0.1.8.202205271506)
"Node.js for MacOS x64" [Resolved]

org.eclipse.wildwebdeveloper.xml (0.15.0.202207081036) "XML support using Language Server" [Starting]
org.eclipse.wst.command.env (1.0.600.v202007142057) "Environment Command Framework (headless)" [Starting]
org.eclipse.wst.command.env.core (1.1.0.v201910301957) "Environment Command Framework (core)" [Resolved]
org.eclipse.wst.command.env.doc.user (1.5.400.v201903222115) "Web services Axis Ant task documentation" [Starting]
org.eclipse.wst.command.env.infopop (1.0.200.v201903050508) "Web services UI" [Starting]
org.eclipse.wst.command.env.ui (1.2.0.v201910301957) "Environment Command Framework (GUI)" [Starting]
org.eclipse.wst.common.core (1.4.100.v202103232321) "WST Common Core Plug-in" [Active]
org.eclipse.wst.common.emf (1.2.700.v202007161535) "EMF Utilities" [Active]
org.eclipse.wst.common.emfworkbench.integration (1.2.102.v202007161535) "EMF Workbench Edit Plug-in" [Active]
org.eclipse.wst.common.environment (1.0.401.v202007142017) "Environment Plug-in" [Starting]
org.eclipse.wst.common.frameworks (1.2.202.v202108200212) "Common Frameworks" [Active]
org.eclipse.wst.common.frameworks.ui (1.2.401.v202007142017) "WTP UI Plug-in" [Active]
org.eclipse.wst.common.infopop (1.0.301.v202007142017) "Common WST infopops" [Starting]
org.eclipse.wst.common.modulecore (1.3.200.v202108200212) "Modulecore Plug-in" [Active]
org.eclipse.wst.common.modulecore.ui (1.0.302.v202007142017) "Modulecore UI Plug-in" [Starting]
org.eclipse.wst.common.project.facet.core (1.4.402.v202111212041) "Eclipse Faceted Project Framework" [Active]
org.eclipse.wst.common.project.facet.ui (1.4.602.v202007142017) "Eclipse Faceted Project Framework UI" [Starting]
org.eclipse.wst.common.snippets (1.2.600.v202207121617) "Snippets View" [Starting]
org.eclipse.wst.common.ui (1.2.200.v202207121617) "Eclipse Base UI extensions" [Starting]
org.eclipse.wst.common.uriresolver (1.3.0.v202007161535) "Common URI Resolver Framework" [Starting]
org.eclipse.wst.css.core (1.3.100.v202207121749) "Structured Source CSS Model" [Starting]
org.eclipse.wst.css.ui (1.2.100.v202207121749) "SSE CSS Source Editor" [Starting]
org.eclipse.wst.doc.user (1.2.0.v201903222120) "Master User Doc TOC" [Starting]
org.eclipse.wst.dtd.core (1.2.300.v202207121749) "Structured Source DTD Core" [Starting]
org.eclipse.wst.dtd.ui (1.1.400.v202207121749) "SSE DTD Source Editor" [Starting]
org.eclipse.wst.dtd.ui.infopop (1.0.400.v201903222120) "DTD Editor infopops" [Resolved]

org.eclipse.wst.dtdeditor.doc.user (1.1.0.v201903222120) "DTD Editor documentation" [Resolved]

org.eclipse.wst.html.core (1.4.200.v202207121749) "Structured Source HTML Model" [Starting]

org.eclipse.wst.html.ui (1.1.700.v202207121749) "HTML UI Source Editor" [Starting]

org.eclipse.wst.html.ui.infopop (1.0.201.v201903222120) "HTML editor infopops" [Resolved]

org.eclipse.wst.internet.cache (1.1.0.v202011161431) "Caching URI Resolver" [Starting]

org.eclipse.wst.internet.monitor.core (1.0.700.v202007170127) "Monitor" [Starting]

org.eclipse.wst.internet.monitor.ui (1.0.800.v202007170127) "TCP/IP Monitor" [Starting]

org.eclipse.wst.jsdt.core (2.0.303.v202007221940) "JavaScript Development Tools Core " [Starting]

org.eclipse.wst.jsdt.manipulation (1.0.601.v201903222047) "JavaScript Code Manipulation Functionality " [Starting]

org.eclipse.wst.jsdt.ui (2.1.400.v202204072230) "Eclipse JavaScript Development Tools" [Starting]

org.eclipse.wst.jsdt.web.core (1.1.200.v202207121749) "JSDT Web Support Core " [Starting]

org.eclipse.wst.jsdt.web.support.jsp (1.1.101.v202101180039) "JSDT support for JSP Plug-in" [Starting]

org.eclipse.wst.jsdt.web.ui (1.2.300.v202207121749) "JSDT Web Support UI" [Starting]

org.eclipse.wst.json.bower.core (1.0.0.v201901071922) "Bower Core" [Starting]

org.eclipse.wst.json.bower.ui (1.0.200.v201904210526) "Eclipse Bower Editors and Tools" [Starting]

org.eclipse.wst.json.core (1.1.0.v201901152013) "Structured Source JSON Model" [Starting]

org.eclipse.wst.json.eslint.core (1.0.0.v201901071922) "ESLint Core" [Starting]

org.eclipse.wst.json.eslint.ui (1.0.200.v201904210526) "Eclipse ESLint Editors and Tools" [Starting]

org.eclipse.wst.json.jshint.core (1.0.1.v201908281850) "JSHint Core" [Starting]

org.eclipse.wst.json.jshint.ui (1.0.200.v201904210526) "Eclipse JSHint Editors and Tools" [Starting]

org.eclipse.wst.json.npm.core (1.0.0.v201901071922) "NPM Core" [Starting]

org.eclipse.wst.json.npm.ui (1.0.100.v201904210526) "Eclipse NPM Editors and Tools" [Starting]

org.eclipse.wst.json.schemaprocessor (1.0.200.v201901071922) "JSON Schema Processor" [Starting]

org.eclipse.wst.json.ui (1.0.600.v202103121626) "Eclipse JSON Editors and Tools" [Starting]

org.eclipse.wst.server.core (1.10.200.v202106020138) "Server Core" [Active]

org.eclipse.wst.server.discovery (1.3.500.v202204301608) "Plug-in Discovery Plug-in" [Starting]

org.eclipse.wst.server.http.core (1.0.400.v202007170127) "HTTP Server Support" [Starting]

org.eclipse.wst.server.http.ui (1.0.500.v202007170127) "HTTP Server UI Support" [Starting]

org.eclipse.wst.server.preview (1.2.0.v202208120424) "Preview Server

Support" [Starting]
org.eclipse.wst.server.preview.adapter (1.1.600.v202106111324) "HTTP Preview Support" [Starting]
org.eclipse.wst.server.ui (1.5.800.v202208260501) "Server UI" [Active]
org.eclipse.wst.server.ui.doc.user (1.1.600.v201901310132) "Server Tools documentation for Web Standard Tools" [Starting]
org.eclipse.wst.server.ui.infopop (1.1.200.v201901310132) "Server Tools infopops for Web Standard Tools" [Resolved]
org.eclipse.wst.sse.core (1.2.800.v202207121749) "Structured Source Model" [Starting]
org.eclipse.wst.sse.doc.user (1.2.0.v201903222120) "Structured text editor and snippets documentation" [Resolved]
org.eclipse.wst.sse.ui (1.7.500.v202207121749) "Structured Source Editor" [Starting]
org.eclipse.wst.sse.ui.infopop (1.0.300.v201903222120) "SSE infopops" [Resolved]
org.eclipse.wst.standard.schemas (1.0.800.v201901071922) "Standard Schemas and DTDs" [Resolved]
org.eclipse.wst.validation (1.2.801.v202007142017) "Validation Framework" [Active]
org.eclipse.wst.validation.infopop (1.0.300.v202007131715) "WST validation infopop plug-in" [Resolved]
org.eclipse.wst.validation.ui (1.2.601.v202007142017) "Validation Framework UI" [Starting]
org.eclipse.wst.web (1.3.100.v202206160209) "Simple Web Plug-in" [Active]
org.eclipse.wst.web.ui (1.2.300.v202206160209) "Eclipse Web Developer Tools" [Starting]
org.eclipse.wst.web.ui.infopop (1.0.300.v201903222120) "Static Web infopop" [Starting]
org.eclipse.wst.webtools.doc.user (1.0.500.v201903222120) "Web tools documentation" [Starting]
org.eclipse.wst.ws (1.1.600.v202007222105) "Web Services" [Starting]
org.eclipse.wst.ws.explorer (1.1.0.v202204231557) "Web Services Explorer" [Starting]
org.eclipse.wst.ws.infopop (1.0.400.v201903050508) "Web Services UI" [Starting]
org.eclipse.wst.ws.parser (1.1.0.v201910301957) "Web Services Description Parser" [Starting]
org.eclipse.wst.ws.service.policy (1.0.450.v201903050508) "Service Policy - Core" [Starting]
org.eclipse.wst.ws.service.policy.ui (1.0.500.v201903050508) "Service Policy - UI" [Starting]
org.eclipse.wst.ws.ui (1.2.0.v201910301957) "Web Services UI" [Starting]
org.eclipse.wst.wsdl (1.3.0.v201910301957) "WSDL Model" [Starting]
org.eclipse.wst.wsdl.ui (1.3.100.v202004082216) "WSDL UI" [Starting]
org.eclipse.wst.wsdl.ui.doc.user (1.0.850.v201903222115) "WSDL Editor Documentation" [Starting]
org.eclipse.wst.wsdl.validation (1.3.100.v202205160247) "WSDL Validator" [Starting]
org.eclipse.wst.wsi (1.1.400.v202205160247) "WSI Conformance Tools" [Starting]
org.eclipse.wst.wsi.ui (1.1.100.v202007221938) "Soap Monitor" [Starting]
org.eclipse.wst.wsi.ui.doc.user (1.0.750.v201903222115) "WS-I Validation Documentation" [Resolved]
org.eclipse.wst.xml.core (1.2.600.v202207121749) "Structured Source XML Model" [Active]

org.eclipse.wst.xml.ui (1.2.700.v202208280234) "Eclipse XML Editors and Tools" [Starting]
org.eclipse.wst.xml.ui.infopop (1.0.400.v201903222120) "XML infopops" [Resolved]
org.eclipse.wst.xml.editor.doc.user (1.1.0.v201903222120) "XML editor" [Resolved]
org.eclipse.wst.xsd.core (1.2.100.v202008180353) "XSD Core Plugin" [Starting]
org.eclipse.wst.xsd.ui (1.3.500.v202207121749) "XML Schema Editor" [Starting]
org.eclipse.wst.xsdeditor.doc.user (1.0.800.v201903222120) "XML schema editor" [Resolved]
org.eclipse.xsd (2.18.0.v20220616-0915) "XSD Model" [Starting]
org.eclipse.xsd.edit (2.11.0.v20200723-0820) "XSD Edit" [Starting]
org.eclipse.xtext.xbase.lib (2.28.0.v20220829-0436) "Xbase Runtime Library" [Resolved]
org.gradle.toolingapi (7.4.2.v20220510-1312-s) "Gradle Tooling API" [Resolved]
org.hamcrest.core (1.3.0.v20180420-1519) "Hamcrest Core Library of Matchers" [Resolved]
org.jacoco.agent (0.8.8.v20220415-0921) "JaCoCo Agent" [Resolved]
org.jacoco.core (0.8.8.v20220517-1805) "JaCoCo Core" [Resolved]
org.jacoco.report (0.8.8.v20220517-1805) "JaCoCo Report" [Resolved]
org.jcodings (1.0.57) "Bundle derived from maven artifact
org.jruby.jcodings:jcodings:1.0.57" [Resolved]
org.joni (2.1.43) "Bundle derived from maven artifact
org.jruby.joni:joni:2.1.43" [Resolved]
org.jsoup (1.14.3.v20211012-1727) "jsoup" [Resolved]
org.junit (4.13.2.v20211018-1956) "JUnit" [Resolved]
org.objectweb.asm (9.3.0.v20220409-0157) "ASM Core" [Resolved]
org.objectweb.asm.commons (9.3.0.v20220409-0157) "ASM Commons" [Resolved]
org.objectweb.asm.tree (9.3.0.v20220409-0157) "ASM Tree" [Resolved]
org.opentest4j (1.2.0) "opentest4j" [Resolved]
org.osgi.service.cm (1.6.1.202109301733) "org.osgi:org.osgi.service.cm" [Resolved]
org.osgi.service.component (1.5.0.202109301733)
"org.osgi:org.osgi.service.component" [Resolved]
org.osgi.service.device (1.1.1.202109301733)
"org.osgi:org.osgi.service.device" [Resolved]
org.osgi.service.event (1.4.1.202109301733)
"org.osgi:org.osgi.service.event" [Resolved]
org.osgi.service.metatype (1.4.1.202109301733)
"org.osgi:org.osgi.service.metatype" [Resolved]
org.osgi.service.prefs (1.1.2.202109301733) "org.osgi:org.osgi.service.prefs" [Resolved]
org.osgi.service.provisioning (1.2.0.201505202024)
"org.osgi:org.osgi.service.provisioning" [Resolved]
org.osgi.service.upnp (1.2.1.202109301733) "org.osgi:org.osgi.service.upnp" [Resolved]
org.osgi.service.useradmin (1.1.1.202109301733)
"org.osgi:org.osgi.service.useradmin" [Resolved]
org.osgi.service.wireadmin (1.0.2.202109301733)
"org.osgi:org.osgi.service.wireadmin" [Resolved]
org.osgi.util.function (1.2.0.202109301733) "org.osgi:org.osgi.util.function" [Resolved]
org.osgi.util.measurement (1.0.2.201802012109)

"org.osgi:org.osgi.util.measurement" [Resolved]
org.osgi.util.position (1.0.1.201505202026) "org.osgi:org.osgi.util.position" [Resolved]
org.osgi.util.promise (1.2.0.202109301733) "org.osgi:org.osgi.util.promise" [Resolved]
org.osgi.util.xml (1.0.2.202109301733) "org.osgi:org.osgi.util.xml" [Resolved]
org.sat4j.core (2.3.6.v20201214) "bundleName" [Resolved]
org.sat4j.pb (2.3.6.v20201214) "bundleName" [Resolved]
org.slf4j.api (1.7.30.v20200204-2150) "SLF4J API Module" [Resolved]
org.tukaani.xz (1.9.0) "XZ data compression" [Resolved]
org.uddi4j (2.0.5.v200805270300) "UDDI4J" [Resolved]
org.w3c.css.sac (1.3.1.v200903091627) "W3C CSS SAC" [Resolved]
org.w3c.dom.events (3.0.0.draft20060413_v201105210656) "W3C DOM Level 3 Events" [Resolved]
org.w3c.dom.smil (1.0.1.v200903091627) "W3C SMIL DOM" [Resolved]
org.w3c.dom.svg (1.1.0.v201011041433) "W3C SVG DOM" [Resolved]
org.yaml.snakeyaml (1.27.0.v20201111-1638) "SnakeYAML" [Resolved]

*** User Preferences:

#Tue Oct 11 10:37:01 EDT 2022

\\/=

/bundle_defaults/org.eclipse.core.net/nonProxiedHosts=localhost|127.0.0.1
/bundle_defaults/org.eclipse.core.net/proxiesEnabled=true
/bundle_defaults/org.eclipse.core.net/proxyData/HTTP/hasAuth=false
/bundle_defaults/org.eclipse.core.net/proxyData/HTTP/port=-1
/bundle_defaults/org.eclipse.core.net/proxyData/HTTPS/hasAuth=false
/bundle_defaults/org.eclipse.core.net/proxyData/HTTPS/port=-1
/bundle_defaults/org.eclipse.core.net/proxyData/SOCKS/hasAuth=false
/bundle_defaults/org.eclipse.core.net/proxyData/SOCKS/port=-1
/bundle_defaults/org.eclipse.core.net/systemProxiesEnabled=true
/bundle_defaults/org.eclipse.core.resources/delta.expiration=2592000000
/bundle_defaults/org.eclipse.core.resources/description.applyfilestatepolicy=true
/bundle_defaults/org.eclipse.core.resources/description.autobuilding=true
/bundle_defaults/org.eclipse.core.resources/description.buildorder=
/bundle_defaults/org.eclipse.core.resources/description.defaultbuildorder=true
/bundle_defaults/org.eclipse.core.resources/description.disableLinking=false
/bundle_defaults/org.eclipse.core.resources/description.filestatelongevity=604800000
/bundle_defaults/org.eclipse.core.resources/description.keepDerivedState=false
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/bundle_defaults/org.eclipse.core.resources/description.maxfilestates=50
/bundle_defaults/org.eclipse.core.resources/description.maxfilestatesize=1048576
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/bundle_defaults/org.eclipse.core.resources/missingNatureMarkerSeverity=1
/bundle_defaults/org.eclipse.core.resources/refresh.enabled=false
/bundle_defaults/org.eclipse.core.resources/refresh.lightweight.enabled=true
/bundle_defaults/org.eclipse.core.resources/snapshots.operations=100

/bundle_defaults/org.eclipse.debug.core/
org.eclipse.debug.core.PREF_BREAKPOINT_MANAGER_ENABLED_STATE=true
/bundle_defaults/org.eclipse.debug.core/
org.eclipse.debug.core.PREF_DELETE_CONFIGS_ON_PROJECT_DELETE=false
/bundle_defaults/org.eclipse.debug.core/
org.eclipse.debug.core.PREF_ENABLE_STATUS_HANDLERS=true
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org.eclipse.debug.core.USE_STEP_FILTERS=false
/bundle_defaults/org.eclipse.egit.core/core_autolgnoreDerivedResources=true
/bundle_defaults/org.eclipse.egit.core/core_autoShareProjects=true
/bundle_defaults/org.eclipse.egit.core/core_auto_stage_deletion=false
/bundle_defaults/org.eclipse.egit.core/core_auto_stage_moves=true
/bundle_defaults/org.eclipse.egit.core/core_defaultRepositoryDir=/Users/earlharris/git
/bundle_defaults/org.eclipse.egit.core/core_deltaBaseCacheLimit=10485760
/bundle_defaults/org.eclipse.egit.core/core_gpg_signer=bc
/bundle_defaults/org.eclipse.egit.core/core_http_client=apache
/bundle_defaults/org.eclipse.egit.core/core_max_pull_threads_count=3
/bundle_defaults/org.eclipse.egit.core/core_packedGitLimit=10485760
/bundle_defaults/org.eclipse.egit.core/core_packedGitMMAP=false
/bundle_defaults/org.eclipse.egit.core/core_packedGitWindowSize=8192
/bundle_defaults/org.eclipse.egit.core/core_remote_connection_timeout=30
/bundle_defaults/org.eclipse.egit.core/core_save_credentials_in_secure_store=true
/bundle_defaults/org.eclipse.egit.core/core_ssh_agent=true
/bundle_defaults/org.eclipse.egit.core/core_streamFileThreshold=52428800
/bundle_defaults/org.eclipse.egit.core/core_textbufferSize=32768
/bundle_defaults/org.eclipse.egit.ui/Blame_IgnoreWhitespace=false
/bundle_defaults/org.eclipse.egit.ui/CloneWizard_ShowDetailedFailureDialog=true
/bundle_defaults/org.eclipse.egit.ui/CloneWizard_StoreInSecureStore=false
/bundle_defaults/org.eclipse.egit.ui/HistoryView_ColumnAuthorDateShow=true
/bundle_defaults/org.eclipse.egit.ui/HistoryView_ColumnAuthorShow=true
/bundle_defaults/org.eclipse.egit.ui/HistoryView_ColumnCommitterDateShow=true
/bundle_defaults/org.eclipse.egit.ui/HistoryView_ColumnCommitterShow=true
/bundle_defaults/org.eclipse.egit.ui/HistoryView_ColumnIdShow=true
/bundle_defaults/org.eclipse.egit.ui/HistoryView_MaxBranchLength=18
/bundle_defaults/org.eclipse.egit.ui/HistoryView_MaxDiffLines=1000
/bundle_defaults/org.eclipse.egit.ui/HistoryView_MaxNumberOfCommits=10000
/bundle_defaults/org.eclipse.egit.ui/HistoryView_MaxTagLength=18
/bundle_defaults/org.eclipse.egit.ui/HistoryView_ShowBranchSequence=true
/bundle_defaults/org.eclipse.egit.ui/HistoryView_ShowTagSequence=false
/bundle_defaults/org.eclipse.egit.ui/HistoryView_VerifySignatures=false
/bundle_defaults/org.eclipse.egit.ui/RebaseInteractive_SyncWithSelection=true
/bundle_defaults/org.eclipse.egit.ui/StagingView_CompareMode=true
/bundle_defaults/org.eclipse.egit.ui/StagingView_FileNameMode=true
/bundle_defaults/org.eclipse.egit.ui/StagingView_MaxLimitListMode=10000
/bundle_defaults/org.eclipse.egit.ui/StagingView_Presentation=LIST
/bundle_defaults/org.eclipse.egit.ui/StagingView_Presentation_Changed=false
/bundle_defaults/org.eclipse.egit.ui/always_show_push_wizard=false

/bundle_defaults/org.eclipse.egit.ui/always_use_staging_view=true
/bundle_defaults/org.eclipse.egit.ui/auto_lfs_config=false
/bundle_defaults/org.eclipse.egit.ui/auto_stage_on_commit=true
/bundle_defaults/org.eclipse.egit.ui/blockCommit=false
/bundle_defaults/org.eclipse.egit.ui/blockCommitCombo=2
/bundle_defaults/org.eclipse.egit.ui/checkBeforeCommitting=false
/bundle_defaults/org.eclipse.egit.ui/commit_dialog_hard_wrap_message=true
/bundle_defaults/org.eclipse.egit.ui/commit_dialog_history_size=10
/bundle_defaults/org.eclipse.egit.ui/commit_dialog_signed_off_by=false
/bundle_defaults/org.eclipse.egit.ui/
commit_dialog_warn_about_message_second_line=true
/bundle_defaults/org.eclipse.egit.ui/date_format=yyyy-MM-dd HH:mm:ss
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g.eclipse.osgi.framework.eventmgr.EventManager\$EventThread.run,org.eclipse.equinox.internal.util.impl.tpt.timer.TimerImpl.run,org.eclipse.equinox.internal.util.impl.tpt.thread pool.Executor.run
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intTarget\
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/instance/org.eclipse.jdt.core/org.eclipse.jdt.core.classpathVariable.JRE_SRC=/Users/earlharris/.p2/pool/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.macosx.x86_64_17.0.3.v20220515-1416/jre/lib/src.zip
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/project/springboot-first-app/org.eclipse.jdt.core/
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/project/springboot-first-app/org.eclipse.m2e.core/activeProfiles=
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@org.eclipse.compare=3.8.500.v20220812-1406
@org.eclipse.core.net=1.4.0.v20220813-1037
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@org.eclipse.wst.ws.service.policy=1.0.450.v201903050508
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*** Current Install Configuration:

Bundles in the system:

Id: ch.qos.logback.classic, Version: 1.1.2.v20171220-1825, Location:
reference:file:plugins/ch.qos.logback.classic_1.1.2.v20171220-1825.jar
Id: ch.qos.logback.core, Version: 1.1.2.v20160208-0839, Location:
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Id: ch.qos.logback.slf4j, Version: 1.1.2.v20160301-0943, Location: reference:file:plugins/
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Id: com.google.gson, Version: 2.9.1, Location: reference:file:plugins/
com.google.gson_2.9.1.jar
Id: com.google.guava, Version: 30.1.0.v20210127-2300, Location: reference:file:plugins/
com.google.guava_30.1.0.v20210127-2300.jar
Id: com.google.javascript, Version: 0.0.20160315.v20161124-1903, Location:
reference:file:plugins/com.google.javascript_0.0.20160315.v20161124-1903.jar
Id: com.google.protobuf, Version: 2.4.0.v201105131100, Location: reference:file:plugins/
com.google.protobuf_2.4.0.v201105131100.jar
Id: com.ibm.icu, Version: 67.1.0, Location: reference:file:plugins/com.ibm.icu_67.1.0.jar

Id: com.ibm.icu, Version: 67.1.0.v20200706-1749, Location: reference:file:plugins/
com.ibm.icu_67.1.0.v20200706-1749.jar

Id: com.jcraft.jsch, Version: 0.1.55.v20190404-1902, Location: reference:file:plugins/
com.jcraft.jsch_0.1.55.v20190404-1902.jar

Id: com.sun.el, Version: 2.2.0.v201303151357, Location: reference:file:plugins/
com.sun.el_2.2.0.v201303151357.jar

Id: com.sun.jna, Version: 5.8.0, Location: reference:file:plugins/com.sun.jna_5.8.0.jar

Id: com.sun.jna.platform, Version: 5.8.0, Location: reference:file:plugins/
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Id: jakarta.el, Version: 4.0.0.v20210105-0527, Location: reference:file:plugins/
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Id: jakarta.enterprise.cdi-api, Version: 2.0.2, Location: reference:file:plugins/
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Id: jakarta.interceptor-api, Version: 1.2.5, Location: reference:file:plugins/
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Id: jakarta.servlet, Version: 5.0.0.v20210105-0527, Location: reference:file:plugins/
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Id: jakarta.servlet-api, Version: 4.0.0, Location: reference:file:plugins/jakarta.servlet-
api_4.0.0.jar

Id: jakarta.servlet.jsp, Version: 3.0.0.v20210105-0527, Location: reference:file:plugins/
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Id: jakarta.transaction-api, Version: 1.3.3, Location: reference:file:plugins/
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Id: javaewah, Version: 1.1.13.v20211029-0839, Location: reference:file:plugins/
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Id: javax.activation, Version: 1.1.0.v201211130549, Location: reference:file:plugins/
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Id: javax.annotation, Version: 1.3.5.v20200909-1856, Location: reference:file:plugins/
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Id: javax.el, Version: 2.2.0.v201303151357, Location: reference:file:plugins/
javax.el_2.2.0.v201303151357.jar

Id: javax.inject, Version: 1.0.0.v20220405-0441, Location: reference:file:plugins/
javax.inject_1.0.0.v20220405-0441.jar

Id: javax.mail, Version: 1.4.0.v201005080615, Location: reference:file:plugins/
javax.mail_1.4.0.v201005080615.jar

Id: javax.servlet.jsp-api, Version: 2.3.3, Location: reference:file:plugins/javax.servlet.jsp-
api_2.3.3.jar

Id: javax.wsdl, Version: 1.6.2.v201012040545, Location: reference:file:plugins/
javax.wsdl_1.6.2.v201012040545.jar

Id: javax.xml, Version: 1.3.4.v201005080400, Location: reference:file:plugins/
javax.xml_1.3.4.v201005080400.jar

Id: javax.xml.rpc, Version: 1.1.0.v201209140446, Location: reference:file:plugins/
javax.xml.rpc_1.1.0.v201209140446/

Id: javax.xml.soap, Version: 1.2.0.v201005080501, Location: reference:file:plugins/
javax.xml.soap_1.2.0.v201005080501/

Id: junit-jupiter-api, Version: 5.9.0, Location: reference:file:plugins/junit-jupiter-
api_5.9.0.jar

Id: junit-jupiter-engine, Version: 5.9.0, Location: reference:file:plugins/junit-jupiter-engine_5.9.0.jar
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Id: net.i2p.crypto.eddsa, Version: 0.3.0.v20220506-1020, Location: reference:file:plugins/net.i2p.crypto.eddsa_0.3.0.v20220506-1020.jar
Id: org.apache.ant, Version: 1.10.12.v20211102-1452, Location: reference:file:plugins/org.apache.ant_1.10.12.v20211102-1452/
Id: org.apache.axis, Version: 1.4.0.v201411182030, Location: reference:file:plugins/org.apache.axis_1.4.0.v201411182030/
Id: org.apache.batik.constants, Version: 1.14.0.v20210324-0332, Location: reference:file:plugins/org.apache.batik.constants_1.14.0.v20210324-0332.jar
Id: org.apache.batik.css, Version: 1.14.0.v20210324-0332, Location: reference:file:plugins/org.apache.batik.css_1.14.0.v20210324-0332.jar
Id: org.apache.batik.i18n, Version: 1.14.0.v20210324-0332, Location: reference:file:plugins/org.apache.batik.i18n_1.14.0.v20210324-0332.jar
Id: org.apache.batik.util, Version: 1.14.0.v20210324-0332, Location: reference:file:plugins/org.apache.batik.util_1.14.0.v20210324-0332.jar
Id: org.apache.commons.codec, Version: 1.14.0.v20200818-1422, Location: reference:file:plugins/org.apache.commons.codec_1.14.0.v20200818-1422.jar
Id: org.apache.commons.compress, Version: 1.21.0.v20211103-2100, Location: reference:file:plugins/org.apache.commons.compress_1.21.0.v20211103-2100.jar
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Id: org.apache.commons.io, Version: 2.8.0.v20210415-0900, Location: reference:file:plugins/org.apache.commons.io_2.8.0.v20210415-0900.jar
Id: org.apache.commons.jxpath, Version: 1.3.0.v200911051830, Location: reference:file:plugins/org.apache.commons.jxpath_1.3.0.v200911051830.jar
Id: org.apache.commons.lang3, Version: 3.1.0.v201403281430, Location:

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Id: org.apache.commons.logging, Version: 1.2.0.v20180409-1502, Location:
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Id: org.apache.felix.gogo.command, Version: 1.1.2, Location: reference:file:plugins/
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Id: org.apache.felix.gogo.runtime, Version: 1.1.6, Location: reference:file:plugins/
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Id: org.apache.felix.gogo.shell, Version: 1.1.4, Location: reference:file:plugins/
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Id: org.apache.felix.scr, Version: 2.2.2, Location: reference:file:plugins/
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Id: org.apache.httpcomponents.client5.httpclient5, Version: 5.1.2.v20211217-1500,
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Id: org.apache.jasper.glassfish, Version: 2.2.2.v201501141630, Location:
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Id: org.apache.lucene.analyzers-common, Version: 8.4.1.v20200122-1459, Location:
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Id: org.apache.lucene.core, Version: 8.4.1.v20200122-1459, Location:
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Id: org.apache.sshd.osgi, Version: 2.8.0, Location: reference:file:plugins/
org.apache.sshd.osgi_2.8.0.jar
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Id: org.apache.wsil4j, Version: 1.0.0.v20180522-1857, Location: reference:file:plugins/
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Id: org.apache.xerces, Version: 2.12.2.v20220131-0835, Location:
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Id: org.apache.xml.resolver, Version: 1.2.0.v20220715-1206, Location:
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Id: org.apache.xml.serializer, Version: 2.7.1.v201005080400, Location:
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Id: org.apache.xmlgraphics, Version: 2.6.0.v20210409-0748, Location:
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Id: org.apiguardian.api, Version: 1.1.2, Location: reference:file:plugins/

org.apiguardian.api_1.1.2.jar
Id: org.bouncycastle.bcpv, Version: 1.71.0.v20220723-1943, Location:
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Id: org.eclipse.ant.core, Version: 3.6.500.v20220718-1722, Location:
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Id: org.eclipse.ant.ui, Version: 3.8.300.v20220718-1722, Location: reference:file:plugins/
org.eclipse.ant.ui_3.8.300.v20220718-1722.jar
Id: org.eclipse.buildship.branding, Version: 3.1.6.v20220511-1359, Location:
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Id: org.eclipse.buildship.compat, Version: 3.1.6.v20220511-1359, Location:
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Id: org.eclipse.buildship.core, Version: 3.1.6.v20220511-1359, Location:
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Id: org.eclipse.buildship.ui, Version: 3.1.6.v20220511-1359, Location:
reference:file:plugins/org.eclipse.buildship.ui_3.1.6.v20220511-1359.jar
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Id: org.eclipse.cdt.core.native, Version: 6.2.200.202204200013, Location:
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Id: org.eclipse.compare, Version: 3.8.500.v20220812-1406, Location:
reference:file:plugins/org.eclipse.compare_3.8.500.v20220812-1406.jar
Id: org.eclipse.compare.core, Version: 3.7.100.v20220812-1406, Location:
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Id: org.eclipse.core.commands, Version: 3.10.200.v20220512-0851, Location:
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Id: org.eclipse.core.contenttype, Version: 3.8.200.v20220817-1539, Location:
reference:file:plugins/org.eclipse.core.contenttype_3.8.200.v20220817-1539.jar
Id: org.eclipse.core.databinding, Version: 1.11.100.v20220817-1444, Location:
reference:file:plugins/org.eclipse.core.databinding_1.11.100.v20220817-1444.jar
Id: org.eclipse.core.databinding.beans, Version: 1.8.0.v20210619-1111, Location:
reference:file:plugins/org.eclipse.core.databinding.beans_1.8.0.v20210619-1111.jar
Id: org.eclipse.core.databinding.observable, Version: 1.12.0.v20211231-1006, Location:
reference:file:plugins/
org.eclipse.core.databinding.observable_1.12.0.v20211231-1006.jar
Id: org.eclipse.core.databinding.property, Version: 1.9.0.v20210619-1129, Location:
reference:file:plugins/org.eclipse.core.databinding.property_1.9.0.v20210619-1129.jar
Id: org.eclipse.core.expressions, Version: 3.8.200.v20220613-1047, Location:
reference:file:plugins/org.eclipse.core.expressions_3.8.200.v20220613-1047.jar
Id: org.eclipse.core.externaltools, Version: 1.2.300.v20220618-1805, Location:
reference:file:plugins/org.eclipse.core.externaltools_1.2.300.v20220618-1805.jar
Id: org.eclipse.core.filebuffers, Version: 3.7.200.v20220202-1008, Location:
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Id: org.eclipse.core.filesystem, Version: 1.9.500.v20220817-1539, Location:

reference:file:plugins/org.eclipse.core.filesystem_1.9.500.v20220817-1539.jar
Id: org.eclipse.core.filesystem.macosx, Version: 1.3.400.v20220812-1420, Location:
reference:file:plugins/org.eclipse.core.filesystem.macosx_1.3.400.v20220812-1420.jar
Id: org.eclipse.core.jobs, Version: 3.13.100.v20220817-1539, Location:
reference:file:plugins/org.eclipse.core.jobs_3.13.100.v20220817-1539.jar
Id: org.eclipse.core.net, Version: 1.4.0.v20220813-1037, Location: reference:file:plugins/
org.eclipse.core.net_1.4.0.v20220813-1037.jar
Id: org.eclipse.core.resources, Version: 3.18.0.v20220828-0546, Location:
reference:file:plugins/org.eclipse.core.resources_3.18.0.v20220828-0546.jar
Id: org.eclipse.core.runtime, Version: 3.26.0.v20220813-0916, Location:
reference:file:plugins/org.eclipse.core.runtime_3.26.0.v20220813-0916.jar
Id: org.eclipse.core.variables, Version: 3.5.100.v20210721-1355, Location:
reference:file:plugins/org.eclipse.core.variables_3.5.100.v20210721-1355.jar
Id: org.eclipse.debug.core, Version: 3.20.0.v20220811-0741, Location:
reference:file:plugins/org.eclipse.debug.core_3.20.0.v20220811-0741.jar
Id: org.eclipse.debug.ui, Version: 3.17.0.v20220817-1312, Location:
reference:file:plugins/org.eclipse.debug.ui_3.17.0.v20220817-1312.jar
Id: org.eclipse.debug.ui.launchview, Version: 1.0.300.v20220811-0741, Location:
reference:file:plugins/org.eclipse.debug.ui.launchview_1.0.300.v20220811-0741.jar
Id: org.eclipse.draw2d, Version: 3.11.100.202206170857, Location:
reference:file:plugins/org.eclipse.draw2d_3.11.100.202206170857.jar
Id: org.eclipse.e4.core.commands, Version: 1.0.200.v20220629-1225, Location:
reference:file:plugins/org.eclipse.e4.core.commands_1.0.200.v20220629-1225.jar
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Id: org.eclipse.e4.core.di, Version: 1.8.300.v20220817-1539, Location:
reference:file:plugins/org.eclipse.e4.core.di_1.8.300.v20220817-1539.jar
Id: org.eclipse.e4.core.di.annotations, Version: 1.7.200.v20220613-1008, Location:
reference:file:plugins/org.eclipse.e4.core.di.annotations_1.7.200.v20220613-1008.jar
Id: org.eclipse.e4.core.di.extensions, Version: 0.17.200.v20220613-1008, Location:
reference:file:plugins/org.eclipse.e4.core.di.extensions_0.17.200.v20220613-1008.jar
Id: org.eclipse.e4.core.di.extensions.supplier, Version: 0.16.400.v20220613-1047,
Location: reference:file:plugins/
org.eclipse.e4.core.di.extensions.supplier_0.16.400.v20220613-1047.jar
Id: org.eclipse.e4.core.services, Version: 2.3.300.v20220613-1047, Location:
reference:file:plugins/org.eclipse.e4.core.services_2.3.300.v20220613-1047.jar
Id: org.eclipse.e4.emf.xpath, Version: 0.3.0.v20210722-1426, Location:
reference:file:plugins/org.eclipse.e4.emf.xpath_0.3.0.v20210722-1426.jar
Id: org.eclipse.e4.ui.bindings, Version: 0.13.100.v20210722-1426, Location:
reference:file:plugins/org.eclipse.e4.ui.bindings_0.13.100.v20210722-1426.jar
Id: org.eclipse.e4.ui.css.core, Version: 0.13.300.v20220809-1237, Location:
reference:file:plugins/org.eclipse.e4.ui.css.core_0.13.300.v20220809-1237.jar
Id: org.eclipse.e4.ui.css.swt, Version: 0.14.600.v20220621-1327, Location:
reference:file:plugins/org.eclipse.e4.ui.css.swt_0.14.600.v20220621-1327.jar
Id: org.eclipse.e4.ui.css.swt.theme, Version: 0.13.100.v20220310-1056, Location:
reference:file:plugins/org.eclipse.e4.ui.css.swt.theme_0.13.100.v20220310-1056.jar
Id: org.eclipse.e4.ui.di, Version: 1.4.0.v20210621-1133, Location: reference:file:plugins/

org.eclipse.e4.ui.di_1.4.0.v20210621-1133.jar
Id: org.eclipse.e4.ui.dialogs, Version: 1.3.300.v20220815-1831, Location:
reference:file:plugins/org.eclipse.e4.ui.dialogs_1.3.300.v20220815-1831.jar
Id: org.eclipse.e4.ui.ide, Version: 3.16.100.v20220310-1350, Location:
reference:file:plugins/org.eclipse.e4.ui.ide_3.16.100.v20220310-1350.jar
Id: org.eclipse.e4.ui.model.workbench, Version: 2.2.200.v20220817-1444, Location:
reference:file:plugins/org.eclipse.e4.ui.model.workbench_2.2.200.v20220817-1444.jar
Id: org.eclipse.e4.ui.progress, Version: 0.3.500.v20220717-1456, Location:
reference:file:plugins/org.eclipse.e4.ui.progress_0.3.500.v20220717-1456.jar
Id: org.eclipse.e4.ui.services, Version: 1.5.0.v20210115-1333, Location:
reference:file:plugins/org.eclipse.e4.ui.services_1.5.0.v20210115-1333.jar
Id: org.eclipse.e4.ui.widgets, Version: 1.3.0.v20210621-1136, Location:
reference:file:plugins/org.eclipse.e4.ui.widgets_1.3.0.v20210621-1136.jar
Id: org.eclipse.e4.ui.workbench, Version: 1.13.200.v20220808-2019, Location:
reference:file:plugins/org.eclipse.e4.ui.workbench_1.13.200.v20220808-2019.jar
Id: org.eclipse.e4.ui.workbench.addons.swt, Version: 1.4.400.v20211102-0453,
Location: reference:file:plugins/
org.eclipse.e4.ui.workbench.addons.swt_1.4.400.v20211102-0453.jar
Id: org.eclipse.e4.ui.workbench.renderers.swt, Version: 0.15.600.v20220715-1400,
Location: reference:file:plugins/
org.eclipse.e4.ui.workbench.renderers.swt_0.15.600.v20220715-1400.jar
Id: org.eclipse.e4.ui.workbench.renderers.swt.cocoa, Version:
0.12.600.v20200416-0656, Location: reference:file:plugins/
org.eclipse.e4.ui.workbench.renderers.swt.cocoa_0.12.600.v20200416-0656.jar
Id: org.eclipse.e4.ui.workbench.swt, Version: 0.16.600.v20220607-1204, Location:
reference:file:plugins/org.eclipse.e4.ui.workbench.swt_0.16.600.v20220607-1204.jar
Id: org.eclipse.e4.ui.workbench3, Version: 0.16.0.v20210619-0956, Location:
reference:file:plugins/org.eclipse.e4.ui.workbench3_0.16.0.v20210619-0956.jar
Id: org.eclipse.ecf, Version: 3.10.0.v20210925-0032, Location: reference:file:plugins/
org.eclipse.ecf_3.10.0.v20210925-0032.jar
Id: org.eclipse.ecf.filetransfer, Version: 5.1.102.v20210409-2301, Location:
reference:file:plugins/org.eclipse.ecf.filetransfer_5.1.102.v20210409-2301.jar
Id: org.eclipse.ecf.identity, Version: 3.9.402.v20210409-2301, Location:
reference:file:plugins/org.eclipse.ecf.identity_3.9.402.v20210409-2301.jar
Id: org.eclipse.ecf.provider.filetransfer, Version: 3.2.800.v20220215-0126, Location:
reference:file:plugins/org.eclipse.ecf.provider.filetransfer_3.2.800.v20220215-0126.jar
Id: org.eclipse.ecf.provider.filetransfer.httpclient5, Version: 1.0.300.v20220215-0126,
Location: reference:file:plugins/
org.eclipse.ecf.provider.filetransfer.httpclient5_1.0.300.v20220215-0126.jar
Id: org.eclipse.ecf.provider.filetransfer.ssl, Version: 1.0.201.v20210409-2301, Location:
reference:file:plugins/
org.eclipse.ecf.provider.filetransfer.ssl_1.0.201.v20210409-2301.jar
Id: org.eclipse.ecf.ssl, Version: 1.2.401.v20210409-2301, Location:
reference:file:plugins/org.eclipse.ecf.ssl_1.2.401.v20210409-2301.jar
Id: org.eclipse.eclEmma.core, Version: 3.1.6.202206011447, Location:
reference:file:plugins/org.eclipse.eclEmma.core_3.1.6.202206011447.jar
Id: org.eclipse.eclEmma.doc, Version: 3.1.6.202206011447, Location:

reference:file:plugins/org.eclipse.eclemma.doc_3.1.6.202206011447.jar
Id: org.eclipse.eclemma.ui, Version: 3.1.6.202206011447, Location:
reference:file:plugins/org.eclipse.eclemma.ui_3.1.6.202206011447.jar
Id: org.eclipse.egit, Version: 6.3.0.202209071007-r, Location: reference:file:plugins/
org.eclipse.egit_6.3.0.202209071007-r.jar
Id: org.eclipse.egit.core, Version: 6.3.0.202209071007-r, Location: reference:file:plugins/
org.eclipse.egit.core_6.3.0.202209071007-r.jar
Id: org.eclipse.egit.doc, Version: 6.3.0.202209071007-r, Location: reference:file:plugins/
org.eclipse.egit.doc_6.3.0.202209071007-r.jar
Id: org.eclipse.egit.ui, Version: 6.3.0.202209071007-r, Location: reference:file:plugins/
org.eclipse.egit.ui_6.3.0.202209071007-r.jar
Id: org.eclipse.emf.codegen, Version: 2.22.0.v20210420-0623, Location:
reference:file:plugins/org.eclipse.emf.codegen_2.22.0.v20210420-0623.jar
Id: org.eclipse.emf.common, Version: 2.26.0.v20220817-1401, Location:
reference:file:plugins/org.eclipse.emf.common_2.26.0.v20220817-1401.jar
Id: org.eclipse.emf.common.ui, Version: 2.20.0.v20220226-1304, Location:
reference:file:plugins/org.eclipse.emf.common.ui_2.20.0.v20220226-1304.jar
Id: org.eclipse.emf.ecore, Version: 2.28.0.v20220817-1401, Location:
reference:file:plugins/org.eclipse.emf.ecore_2.28.0.v20220817-1401.jar
Id: org.eclipse.emf.ecore.change, Version: 2.14.0.v20190528-0725, Location:
reference:file:plugins/org.eclipse.emf.ecore.change_2.14.0.v20190528-0725.jar
Id: org.eclipse.emf.ecore.edit, Version: 2.13.0.v20190822-1451, Location:
reference:file:plugins/org.eclipse.emf.ecore.edit_2.13.0.v20190822-1451.jar
Id: org.eclipse.emf.ecore.xmi, Version: 2.17.0.v20220817-1334, Location:
reference:file:plugins/org.eclipse.emf.ecore.xmi_2.17.0.v20220817-1334.jar
Id: org.eclipse.emf.edit, Version: 2.17.0.v20220201-1551, Location:
reference:file:plugins/org.eclipse.emf.edit_2.17.0.v20220201-1551.jar
Id: org.eclipse.emf.edit.ui, Version: 2.22.0.v20220619-0533, Location:
reference:file:plugins/org.eclipse.emf.edit.ui_2.22.0.v20220619-0533.jar
Id: org.eclipse.epp.mpc.core, Version: 1.10.0.v20220502-0731, Location:
reference:file:plugins/org.eclipse.epp.mpc.core_1.10.0.v20220502-0731.jar
Id: org.eclipse.epp.mpc.help.ui, Version: 1.10.0.v20220502-0731, Location:
reference:file:plugins/org.eclipse.epp.mpc.help.ui_1.10.0.v20220502-0731.jar
Id: org.eclipse.epp.mpc.ui, Version: 1.10.0.v20220502-0731, Location:
reference:file:plugins/org.eclipse.epp.mpc.ui_1.10.0.v20220502-0731.jar
Id: org.eclipse.epp.mpc.ui.css, Version: 1.10.0.v20220502-0731, Location:
reference:file:plugins/org.eclipse.epp.mpc.ui.css_1.10.0.v20220502-0731.jar
Id: org.eclipse.epp.package.common, Version: 4.25.0.20220908-1200, Location:
reference:file:plugins/org.eclipse.epp.package.common_4.25.0.20220908-1200/
Id: org.eclipse.epp.package.java, Version: 4.25.0.20220908-1200, Location:
reference:file:plugins/org.eclipse.epp.package.java_4.25.0.20220908-1200/
Id: org.eclipse.equinox.app, Version: 1.6.200.v20220720-2012, Location:
reference:file:plugins/org.eclipse.equinox.app_1.6.200.v20220720-2012.jar
Id: org.eclipse.equinox.bidi, Version: 1.4.200.v20220710-1223, Location:
reference:file:plugins/org.eclipse.equinox.bidi_1.4.200.v20220710-1223.jar
Id: org.eclipse.equinox.common, Version: 3.16.200.v20220817-1601, Location:
reference:file:plugins/org.eclipse.equinox.common_3.16.200.v20220817-1601.jar

Id: org.eclipse.equinox.concurrent, Version: 1.2.100.v20211021-1418, Location: reference:file:plugins/org.eclipse.equinox.concurrent_1.2.100.v20211021-1418.jar
Id: org.eclipse.equinox.console, Version: 1.4.500.v20211021-1418, Location: reference:file:plugins/org.eclipse.equinox.console_1.4.500.v20211021-1418.jar
Id: org.eclipse.equinox.event, Version: 1.6.100.v20211021-1418, Location: reference:file:plugins/org.eclipse.equinox.event_1.6.100.v20211021-1418.jar
Id: org.eclipse.equinox.frameworkadmin, Version: 2.2.100.v20220817-1208, Location: reference:file:plugins/org.eclipse.equinox.frameworkadmin_2.2.100.v20220817-1208.jar
Id: org.eclipse.equinox.frameworkadmin.equinox, Version: 1.2.200.v20220315-2155, Location: reference:file:plugins/org.eclipse.equinox.frameworkadmin.equinox_1.2.200.v20220315-2155.jar
Id: org.eclipse.equinox.http.jetty, Version: 3.8.100.v20211021-1418, Location: reference:file:plugins/org.eclipse.equinox.http.jetty_3.8.100.v20211021-1418.jar
Id: org.eclipse.equinox.http.registry, Version: 1.3.200.v20220720-2012, Location: reference:file:plugins/org.eclipse.equinox.http.registry_1.3.200.v20220720-2012.jar
Id: org.eclipse.equinox.http.servlet, Version: 1.7.300.v20220726-1300, Location: reference:file:plugins/org.eclipse.equinox.http.servlet_1.7.300.v20220726-1300.jar
Id: org.eclipse.equinox.jsp.jasper, Version: 1.1.700.v20220801-1124, Location: reference:file:plugins/org.eclipse.equinox.jsp.jasper_1.1.700.v20220801-1124.jar
Id: org.eclipse.equinox.jsp.jasper.registry, Version: 1.2.100.v20211021-1418, Location: reference:file:plugins/org.eclipse.equinox.jsp.jasper.registry_1.2.100.v20211021-1418.jar
Id: org.eclipse.equinox.launcher, Version: 1.6.400.v20210924-0641, Location: reference:file:plugins/org.eclipse.equinox.launcher_1.6.400.v20210924-0641.jar
Id: org.eclipse.equinox.launcher.cocoa.macosx.x86_64, Version: 1.2.600.v20220720-1916, Location: reference:file:plugins/org.eclipse.equinox.launcher.cocoa.macosx.x86_64_1.2.600.v20220720-1916.jar
Id: org.eclipse.equinox.p2.artifact.repository, Version: 1.4.500.v20220420-1427, Location: reference:file:plugins/org.eclipse.equinox.p2.artifact.repository_1.4.500.v20220420-1427.jar
Id: org.eclipse.equinox.p2.console, Version: 1.2.0.v20210315-2042, Location: reference:file:plugins/org.eclipse.equinox.p2.console_1.2.0.v20210315-2042.jar
Id: org.eclipse.equinox.p2.core, Version: 2.9.200.v20220817-1208, Location: reference:file:plugins/org.eclipse.equinox.p2.core_2.9.200.v20220817-1208.jar
Id: org.eclipse.equinox.p2.director, Version: 2.5.400.v20220817-1208, Location: reference:file:plugins/org.eclipse.equinox.p2.director_2.5.400.v20220817-1208.jar
Id: org.eclipse.equinox.p2.director.app, Version: 1.2.200.v20220802-0626, Location: reference:file:plugins/org.eclipse.equinox.p2.director.app_1.2.200.v20220802-0626.jar
Id: org.eclipse.equinox.p2.directorywatcher, Version: 1.3.0.v20210316-1209, Location: reference:file:plugins/org.eclipse.equinox.p2.directorywatcher_1.3.0.v20210316-1209.jar
Id: org.eclipse.equinox.p2.discovery, Version: 1.2.0.v20210315-2042, Location: reference:file:plugins/org.eclipse.equinox.p2.discovery_1.2.0.v20210315-2042.jar
Id: org.eclipse.equinox.p2.discovery.compatibility, Version: 1.2.200.v20220210-1157, Location: reference:file:plugins/org.eclipse.equinox.p2.discovery.compatibility_1.2.200.v20220210-1157.jar
Id: org.eclipse.equinox.p2.engine, Version: 2.7.500.v20220817-1208, Location:

reference:file:plugins/org.eclipse.equinox.p2.engine_2.7.500.v20220817-1208.jar
Id: org.eclipse.equinox.p2.extensionlocation, Version: 1.4.100.v20220213-0541,
Location: reference:file:plugins/
org.eclipse.equinox.p2.extensionlocation_1.4.100.v20220213-0541.jar
Id: org.eclipse.equinox.p2.garbagecollector, Version: 1.2.0.v20210316-1209, Location:
reference:file:plugins/
org.eclipse.equinox.p2.garbagecollector_1.2.0.v20210316-1209.jar
Id: org.eclipse.equinox.p2.jarprocessor, Version: 1.2.300.v20220420-1427, Location:
reference:file:plugins/org.eclipse.equinox.p2.jarprocessor_1.2.300.v20220420-1427.jar
Id: org.eclipse.equinox.p2.metadata, Version: 2.6.300.v20220817-1208, Location:
reference:file:plugins/org.eclipse.equinox.p2.metadata_2.6.300.v20220817-1208.jar
Id: org.eclipse.equinox.p2.metadata.repository, Version: 1.4.100.v20220329-1456,
Location: reference:file:plugins/
org.eclipse.equinox.p2.metadata.repository_1.4.100.v20220329-1456.jar
Id: org.eclipse.equinox.p2.operations, Version: 2.6.100.v20220817-1208, Location:
reference:file:plugins/org.eclipse.equinox.p2.operations_2.6.100.v20220817-1208.jar
Id: org.eclipse.equinox.p2.publisher, Version: 1.7.200.v20220805-0804, Location:
reference:file:plugins/org.eclipse.equinox.p2.publisher_1.7.200.v20220805-0804.jar
Id: org.eclipse.equinox.p2.publisher.eclipse, Version: 1.4.100.v20220420-1427,
Location: reference:file:plugins/
org.eclipse.equinox.p2.publisher.eclipse_1.4.100.v20220420-1427.jar
Id: org.eclipse.equinox.p2.reconciler.dropins, Version: 1.4.100.v20211217-1131,
Location: reference:file:plugins/
org.eclipse.equinox.p2.reconciler.dropins_1.4.100.v20211217-1131.jar
Id: org.eclipse.equinox.p2.repository, Version: 2.6.200.v20220819-1949, Location:
reference:file:plugins/org.eclipse.equinox.p2.repository_2.6.200.v20220819-1949.jar
Id: org.eclipse.equinox.p2.repository.tools, Version: 2.3.100.v20220504-1755, Location:
reference:file:plugins/
org.eclipse.equinox.p2.repository.tools_2.3.100.v20220504-1755.jar
Id: org.eclipse.equinox.p2.touchpoint.eclipse, Version: 2.3.300.v20220817-1208,
Location: reference:file:plugins/
org.eclipse.equinox.p2.touchpoint.eclipse_2.3.300.v20220817-1208.jar
Id: org.eclipse.equinox.p2.touchpoint.natives, Version: 1.4.400.v20220506-1821,
Location: reference:file:plugins/
org.eclipse.equinox.p2.touchpoint.natives_1.4.400.v20220506-1821.jar
Id: org.eclipse.equinox.p2.transport.ecf, Version: 1.3.300.v20220512-1321, Location:
reference:file:plugins/org.eclipse.equinox.p2.transport.ecf_1.3.300.v20220512-1321.jar
Id: org.eclipse.equinox.p2.ui, Version: 2.7.600.v20220817-1208, Location:
reference:file:plugins/org.eclipse.equinox.p2.ui_2.7.600.v20220817-1208.jar
Id: org.eclipse.equinox.p2.ui.discovery, Version: 1.2.300.v20210813-0655, Location:
reference:file:plugins/org.eclipse.equinox.p2.ui.discovery_1.2.300.v20210813-0655.jar
Id: org.eclipse.equinox.p2.ui.importexport, Version: 1.3.300.v20220329-1456, Location:
reference:file:plugins/
org.eclipse.equinox.p2.ui.importexport_1.3.300.v20220329-1456.jar
Id: org.eclipse.equinox.p2.ui.sdk, Version: 1.2.100.v20220814-1551, Location:
reference:file:plugins/org.eclipse.equinox.p2.ui.sdk_1.2.100.v20220814-1551.jar
Id: org.eclipse.equinox.p2.ui.sdk.scheduler, Version: 1.5.400.v20220805-0804,

Location: reference:file:plugins/
org.eclipse.equinox.p2.ui.sdk.scheduler_1.5.400.v20220805-0804.jar
Id: org.eclipse.equinox.p2.updatechecker, Version: 1.3.0.v20210315-2228, Location:
reference:file:plugins/org.eclipse.equinox.p2.updatechecker_1.3.0.v20210315-2228.jar
Id: org.eclipse.equinox.p2.updatechecker, Version: 1.2.300.v20220420-1427, Location:
reference:file:plugins/org.eclipse.equinox.p2.updatechecker_1.2.300.v20220420-1427.jar
Id: org.eclipse.equinox.preferences, Version: 3.10.100.v20220710-1223, Location:
reference:file:plugins/org.eclipse.equinox.preferences_3.10.100.v20220710-1223.jar
Id: org.eclipse.equinox.registry, Version: 3.11.200.v20220817-1601, Location:
reference:file:plugins/org.eclipse.equinox.registry_3.11.200.v20220817-1601.jar
Id: org.eclipse.equinox.security, Version: 1.3.1000.v20220801-1135, Location:
reference:file:plugins/org.eclipse.equinox.security_1.3.1000.v20220801-1135.jar
Id: org.eclipse.equinox.security.macosx, Version: 1.101.400.v20210427-1958, Location:
reference:file:plugins/
org.eclipse.equinox.security.macosx_1.101.400.v20210427-1958.jar
Id: org.eclipse.equinox.security.ui, Version: 1.3.300.v20220710-1223, Location:
reference:file:plugins/org.eclipse.equinox.security.ui_1.3.300.v20220710-1223.jar
Id: org.eclipse.equinox.simpleconfigurator, Version: 1.4.100.v20220620-1617, Location:
initial@reference:file:plugins/
org.eclipse.equinox.simpleconfigurator_1.4.100.v20220620-1617.jar
Id: org.eclipse.equinox.simpleconfigurator.manipulator, Version: 2.2.0.v20210315-2228,
Location: reference:file:plugins/
org.eclipse.equinox.simpleconfigurator.manipulator_2.2.0.v20210315-2228.jar
Id: org.eclipse.gef, Version: 3.12.100.202206170857, Location: reference:file:plugins/
org.eclipse.gef_3.12.100.202206170857.jar
Id: org.eclipse.help, Version: 3.9.100.v20210721-0601, Location: reference:file:plugins/
org.eclipse.help_3.9.100.v20210721-0601.jar
Id: org.eclipse.help.base, Version: 4.3.800.v20220831-1800, Location:
reference:file:plugins/org.eclipse.help.base_4.3.800.v20220831-1800.jar
Id: org.eclipse.help.ui, Version: 4.4.100.v20220619-1918, Location:
reference:file:plugins/org.eclipse.help.ui_4.4.100.v20220619-1918.jar
Id: org.eclipse.help.webapp, Version: 3.10.800.v20220714-2106, Location:
reference:file:plugins/org.eclipse.help.webapp_3.10.800.v20220714-2106.jar
Id: org.eclipse.jdt, Version: 3.18.1300.v20220831-1800, Location: reference:file:plugins/
org.eclipse.jdt_3.18.1300.v20220831-1800.jar
Id: org.eclipse.jdt.annotation, Version: 1.2.100.v20220826-1026, Location:
reference:file:plugins/org.eclipse.jdt.annotation_1.2.100.v20220826-1026.jar
Id: org.eclipse.jdt.annotation, Version: 2.2.700.v20220826-1026, Location:
reference:file:plugins/org.eclipse.jdt.annotation_2.2.700.v20220826-1026.jar
Id: org.eclipse.jdt apt.core, Version: 3.7.50.v20210914-1429, Location:
reference:file:plugins/org.eclipse.jdt apt.core_3.7.50.v20210914-1429.jar
Id: org.eclipse.jdt apt.pluggable.core, Version: 1.3.0.v20210618-1653, Location:
reference:file:plugins/org.eclipse.jdt apt.pluggable.core_1.3.0.v20210618-1653.jar
Id: org.eclipse.jdt apt.ui, Version: 3.7.0.v20210620-1751, Location:
reference:file:plugins/org.eclipse.jdt apt.ui_3.7.0.v20210620-1751.jar
Id: org.eclipse.jdt.compiler apt, Version: 1.4.200.v20220802-0458, Location:
reference:file:plugins/org.eclipse.jdt.compiler apt_1.4.200.v20220802-0458.jar

Id: org.eclipse.jdt.compiler.tool, Version: 1.3.200.v20220802-0458, Location: reference:file:plugins/org.eclipse.jdt.compiler.tool_1.3.200.v20220802-0458.jar
Id: org.eclipse.jdt.core, Version: 3.31.0.v20220831-1439, Location: reference:file:plugins/org.eclipse.jdt.core_3.31.0.v20220831-1439.jar
Id: org.eclipse.jdt.core.formatterapp, Version: 1.1.0.v20210618-1653, Location: reference:file:plugins/org.eclipse.jdt.core.formatterapp_1.1.0.v20210618-1653.jar
Id: org.eclipse.jdt.core.manipulation, Version: 1.16.200.v20220824-0551, Location: reference:file:plugins/org.eclipse.jdt.core.manipulation_1.16.200.v20220824-0551.jar
Id: org.eclipse.jdt.debug, Version: 3.19.300.v20220812-1529, Location: reference:file:plugins/org.eclipse.jdt.debug_3.19.300.v20220812-1529/
Id: org.eclipse.jdt.debug.ui, Version: 3.12.800.v20220813-1738, Location: reference:file:plugins/org.eclipse.jdt.debug.ui_3.12.800.v20220813-1738.jar
Id: org.eclipse.jdt.doc.user, Version: 3.15.1500.v20220829-1143, Location: reference:file:plugins/org.eclipse.jdt.doc.user_3.15.1500.v20220829-1143.jar
Id: org.eclipse.jdt.junit, Version: 3.15.0.v20220815-1918, Location: reference:file:plugins/org.eclipse.jdt.junit_3.15.0.v20220815-1918.jar
Id: org.eclipse.jdt.junit.core, Version: 3.11.400.v20220715-1030, Location: reference:file:plugins/org.eclipse.jdt.junit.core_3.11.400.v20220715-1030.jar
Id: org.eclipse.jdt.junit.runtime, Version: 3.7.0.v20220609-1843, Location: reference:file:plugins/org.eclipse.jdt.junit.runtime_3.7.0.v20220609-1843.jar
Id: org.eclipse.jdt.junit4.runtime, Version: 1.3.0.v20220609-1843, Location: reference:file:plugins/org.eclipse.jdt.junit4.runtime_1.3.0.v20220609-1843.jar
Id: org.eclipse.jdt.junit5.runtime, Version: 1.1.0.v20220715-1030, Location: reference:file:plugins/org.eclipse.jdt.junit5.runtime_1.1.0.v20220715-1030.jar
Id: org.eclipse.jdt.launching, Version: 3.19.700.v20220730-1850, Location: reference:file:plugins/org.eclipse.jdt.launching_3.19.700.v20220730-1850.jar
Id: org.eclipse.jdt.launching.macosx, Version: 3.5.0.v20220610-1811, Location: reference:file:plugins/org.eclipse.jdt.launching.macosx_3.5.0.v20220610-1811.jar
Id: org.eclipse.jdt.launching.ui.macosx, Version: 1.3.0.v20220610-1811, Location: reference:file:plugins/org.eclipse.jdt.launching.ui.macosx_1.3.0.v20220610-1811.jar
Id: org.eclipse.jdt.ui, Version: 3.27.0.v20220824-0714, Location: reference:file:plugins/org.eclipse.jdt.ui_3.27.0.v20220824-0714.jar
Id: org.eclipse.jem, Version: 2.0.600.v201903222024, Location: reference:file:plugins/org.eclipse.jem_2.0.600.v201903222024.jar
Id: org.eclipse.jem.beaninfo, Version: 2.0.300.v201903222024, Location: reference:file:plugins/org.eclipse.jem.beaninfo_2.0.300.v201903222024.jar
Id: org.eclipse.jem.beaninfo.vm, Version: 2.1.0.v202101081429, Location: reference:file:plugins/org.eclipse.jem.beaninfo.vm_2.1.0.v202101081429.jar
Id: org.eclipse.jem.beaninfo.vm.common, Version: 2.1.0.v202101081429, Location: reference:file:plugins/org.eclipse.jem.beaninfo.vm.common_2.1.0.v202101081429.jar
Id: org.eclipse.jem.proxy, Version: 2.1.0.v202101081429, Location: reference:file:plugins/org.eclipse.jem.proxy_2.1.0.v202101081429.jar
Id: org.eclipse.jem.util, Version: 2.1.300.v202103232321, Location: reference:file:plugins/org.eclipse.jem.util_2.1.300.v202103232321.jar
Id: org.eclipse.jem.workbench, Version: 2.1.0.v202101081429, Location: reference:file:plugins/org.eclipse.jem.workbench_2.1.0.v202101081429.jar
Id: org.eclipse.jetty.http, Version: 10.0.11, Location: reference:file:plugins/

org.eclipse.jetty.http_10.0.11.jar
Id: org.eclipse.jetty.io, Version: 10.0.11, Location: reference:file:plugins/
org.eclipse.jetty.io_10.0.11.jar
Id: org.eclipse.jetty.jndi, Version: 10.0.11, Location: reference:file:plugins/
org.eclipse.jetty.jndi_10.0.11.jar
Id: org.eclipse.jetty.plus, Version: 10.0.11, Location: reference:file:plugins/
org.eclipse.jetty.plus_10.0.11.jar
Id: org.eclipse.jetty.security, Version: 10.0.11, Location: reference:file:plugins/
org.eclipse.jetty.security_10.0.11.jar
Id: org.eclipse.jetty.server, Version: 10.0.11, Location: reference:file:plugins/
org.eclipse.jetty.server_10.0.11.jar
Id: org.eclipse.jetty.servlet, Version: 10.0.11, Location: reference:file:plugins/
org.eclipse.jetty.servlet_10.0.11.jar
Id: org.eclipse.jetty.util, Version: 10.0.11, Location: reference:file:plugins/
org.eclipse.jetty.util_10.0.11.jar
Id: org.eclipse.jetty.util.ajax, Version: 10.0.11, Location: reference:file:plugins/
org.eclipse.jetty.util.ajax_10.0.11.jar
Id: org.eclipse.jetty.webapp, Version: 10.0.11, Location: reference:file:plugins/
org.eclipse.jetty.webapp_10.0.11.jar
Id: org.eclipse.jetty.xml, Version: 10.0.11, Location: reference:file:plugins/
org.eclipse.jetty.xml_10.0.11.jar
Id: org.eclipse.jface, Version: 3.27.0.v20220817-1444, Location: reference:file:plugins/
org.eclipse.jface_3.27.0.v20220817-1444.jar
Id: org.eclipse.jface.databinding, Version: 1.13.0.v20210619-1146, Location:
reference:file:plugins/org.eclipse.jface.databinding_1.13.0.v20210619-1146.jar
Id: org.eclipse.jface.notifications, Version: 0.5.0.v20220401-0716, Location:
reference:file:plugins/org.eclipse.jface.notifications_0.5.0.v20220401-0716.jar
Id: org.eclipse.jface.text, Version: 3.21.0.v20220817-1340, Location:
reference:file:plugins/org.eclipse.jface.text_3.21.0.v20220817-1340.jar
Id: org.eclipse.jgit, Version: 6.3.0.202209071007-r, Location: reference:file:plugins/
org.eclipse.jgit_6.3.0.202209071007-r.jar
Id: org.eclipse.jgit.archive, Version: 6.3.0.202209071007-r, Location:
reference:file:plugins/org.eclipse.jgit.archive_6.3.0.202209071007-r.jar
Id: org.eclipse.jgit.gpg.bc, Version: 6.3.0.202209071007-r, Location:
reference:file:plugins/org.eclipse.jgit.gpg.bc_6.3.0.202209071007-r.jar
Id: org.eclipse.jgit.http.apache, Version: 6.3.0.202209071007-r, Location:
reference:file:plugins/org.eclipse.jgit.http.apache_6.3.0.202209071007-r.jar
Id: org.eclipse.jgit.ssh.apache, Version: 6.3.0.202209071007-r, Location:
reference:file:plugins/org.eclipse.jgit.ssh.apache_6.3.0.202209071007-r.jar
Id: org.eclipse.jgit.ssh.apache.agent, Version: 6.3.0.202209071007-r, Location:
reference:file:plugins/org.eclipse.jgit.ssh.apache.agent_6.3.0.202209071007-r.jar
Id: org.eclipse.jsch.core, Version: 1.4.0.v20220813-1037, Location:
reference:file:plugins/org.eclipse.jsch.core_1.4.0.v20220813-1037.jar
Id: org.eclipse.jsch.ui, Version: 1.4.200.v20220812-1406, Location:
reference:file:plugins/org.eclipse.jsch.ui_1.4.200.v20220812-1406.jar
Id: org.eclipse.json, Version: 1.1.100.v201901071922, Location: reference:file:plugins/
org.eclipse.json_1.1.100.v201901071922.jar

Id: org.eclipse.jst.common.annotations.controller, Version: 1.1.300.v201903222024,
Location: reference:file:plugins/
org.eclipse.jst.common.annotations.controller_1.1.300.v201903222024.jar
Id: org.eclipse.jst.common.annotations.core, Version: 1.1.300.v201903222024,
Location: reference:file:plugins/
org.eclipse.jst.common.annotations.core_1.1.300.v201903222024.jar
Id: org.eclipse.jst.common.annotations.ui, Version: 1.1.300.v202007170603, Location:
reference:file:plugins/org.eclipse.jst.common.annotations.ui_1.1.300.v202007170603.jar
Id: org.eclipse.jst.common.frameworks, Version: 1.1.701.v201903222024, Location:
reference:file:plugins/org.eclipse.jst.common.frameworks_1.1.701.v201903222024.jar
Id: org.eclipse.jst.common.project.facet.core, Version: 1.12.100.v202208260526,
Location: reference:file:plugins/
org.eclipse.jst.common.project.facet.core_1.12.100.v202208260526.jar
Id: org.eclipse.jst.common.project.facet.ui, Version: 1.4.511.v202007142017, Location:
reference:file:plugins/
org.eclipse.jst.common.project.facet.ui_1.4.511.v202007142017.jar
Id: org.eclipse.jst.common.ui, Version: 1.0.301.v201903222024, Location:
reference:file:plugins/org.eclipse.jst.common.ui_1.0.301.v201903222024.jar
Id: org.eclipse.jst.ejb.doc.user, Version: 1.1.301.v201903222024, Location:
reference:file:plugins/org.eclipse.jst.ejb.doc.user_1.1.301.v201903222024.jar
Id: org.eclipse.jst.ejb.ui, Version: 1.1.911.v201903222024, Location:
reference:file:plugins/org.eclipse.jst.ejb.ui_1.1.911.v201903222024.jar
Id: org.eclipse.jst.ejb.ui.infopop, Version: 1.0.300.v201903222024, Location:
reference:file:plugins/org.eclipse.jst.ejb.ui.infopop_1.0.300.v201903222024.jar
Id: org.eclipse.jst.j2ee, Version: 1.2.600.v202111210731, Location:
reference:file:plugins/org.eclipse.jst.j2ee_1.2.600.v202111210731.jar
Id: org.eclipse.jst.j2ee.core, Version: 1.4.400.v202205260129, Location:
reference:file:plugins/org.eclipse.jst.j2ee.core_1.4.400.v202205260129.jar
Id: org.eclipse.jst.j2ee.doc.user, Version: 1.1.400.v202101072335, Location:
reference:file:plugins/org.eclipse.jst.j2ee.doc.user_1.1.400.v202101072335.jar
Id: org.eclipse.jst.j2ee.ejb, Version: 1.1.901.v201903222024, Location:
reference:file:plugins/org.eclipse.jst.j2ee.ejb_1.1.901.v201903222024.jar
Id: org.eclipse.jst.j2ee.ejb.annotation.model, Version: 1.1.500.v201910291429,
Location: reference:file:plugins/
org.eclipse.jst.j2ee.ejb.annotation.model_1.1.500.v201910291429.jar
Id: org.eclipse.jst.j2ee.ejb.annotations.emitter, Version: 1.1.300.v201903222024,
Location: reference:file:plugins/
org.eclipse.jst.j2ee.ejb.annotations.emitter_1.1.300.v201903222024.jar
Id: org.eclipse.jst.j2ee.ejb.annotations.ui, Version: 1.2.0.v202101081429, Location:
reference:file:plugins/org.eclipse.jst.j2ee.ejb.annotations.ui_1.2.0.v202101081429.jar
Id: org.eclipse.jst.j2ee.ejb.annotations.xdoclet, Version: 1.2.401.v202204060243,
Location: reference:file:plugins/
org.eclipse.jst.j2ee.ejb.annotations.xdoclet_1.2.401.v202204060243.jar
Id: org.eclipse.jst.j2ee.infopop, Version: 1.0.300.v201903222024, Location:
reference:file:plugins/org.eclipse.jst.j2ee.infopop_1.0.300.v201903222024.jar
Id: org.eclipse.jst.j2ee.jca, Version: 1.1.1000.v201904091346, Location:
reference:file:plugins/org.eclipse.jst.j2ee.jca_1.1.1000.v201904091346.jar

Id: org.eclipse.jst.j2ee.jca.ui, Version: 1.1.601.v201904091346, Location:
reference:file:plugins/org.eclipse.jst.j2ee.jca.ui_1.1.601.v201904091346.jar

Id: org.eclipse.jst.j2ee.navigator.ui, Version: 1.1.1000.v202204060258, Location:
reference:file:plugins/org.eclipse.jst.j2ee.navigator.ui_1.1.1000.v202204060258.jar

Id: org.eclipse.jst.j2ee.ui, Version: 1.1.1100.v202205260135, Location:
reference:file:plugins/org.eclipse.jst.j2ee.ui_1.1.1100.v202205260135.jar

Id: org.eclipse.jst.j2ee.web, Version: 1.2.100.v202205260542, Location:
reference:file:plugins/org.eclipse.jst.j2ee.web_1.2.100.v202205260542.jar

Id: org.eclipse.jst.j2ee.webservice, Version: 1.1.800.v202204231553, Location:
reference:file:plugins/org.eclipse.jst.j2ee.webservice_1.1.800.v202204231553.jar

Id: org.eclipse.jst.j2ee.webservice.ui, Version: 1.1.800.v202103311810, Location:
reference:file:plugins/org.eclipse.jst.j2ee.webservice.ui_1.1.800.v202103311810.jar

Id: org.eclipse.jst.j2ee.xdoclet.runtime, Version: 1.2.0.v202101081429, Location:
reference:file:plugins/org.eclipse.jst.j2ee.xdoclet.runtime_1.2.0.v202101081429.jar

Id: org.eclipse.jst.jee, Version: 1.0.1100.v202204072206, Location:
reference:file:plugins/org.eclipse.jst.jee_1.0.1100.v202204072206.jar

Id: org.eclipse.jst.jee.ejb, Version: 1.0.500.v201903222025, Location:
reference:file:plugins/org.eclipse.jst.jee.ejb_1.0.500.v201903222025.jar

Id: org.eclipse.jst.jee.ui, Version: 1.0.1200.v202205260129, Location:
reference:file:plugins/org.eclipse.jst.jee.ui_1.0.1200.v202205260129.jar

Id: org.eclipse.jst.jee.web, Version: 1.0.1000.v202205260129, Location:
reference:file:plugins/org.eclipse.jst.jee.web_1.0.1000.v202205260129.jar

Id: org.eclipse.jst.jsf.doc.user, Version: 1.5.0.v201902121810, Location:
reference:file:plugins/org.eclipse.jst.jsf.doc.user_1.5.0.v201902121810.jar

Id: org.eclipse.jst.jsp.core, Version: 1.4.400.v202208280232, Location:
reference:file:plugins/org.eclipse.jst.jsp.core_1.4.400.v202208280232.jar

Id: org.eclipse.jst.jsp.ui, Version: 1.3.300.v202207121749, Location:
reference:file:plugins/org.eclipse.jst.jsp.ui_1.3.300.v202207121749.jar

Id: org.eclipse.jst.jsp.ui.infopop, Version: 1.0.200.v201903222120, Location:
reference:file:plugins/org.eclipse.jst.jsp.ui.infopop_1.0.200.v201903222120.jar

Id: org.eclipse.jst.server.core, Version: 1.2.800.v202206110154, Location:
reference:file:plugins/org.eclipse.jst.server.core_1.2.800.v202206110154.jar

Id: org.eclipse.jst.server.generic.core, Version: 1.0.1000.v202011161356, Location:
reference:file:plugins/org.eclipse.jst.server.generic.core_1.0.1000.v202011161356.jar

Id: org.eclipse.jst.server.generic.ui, Version: 1.0.700.v201910252115, Location:
reference:file:plugins/org.eclipse.jst.server.generic.ui_1.0.700.v201910252115.jar

Id: org.eclipse.jst.server.preview.adapter, Version: 1.1.800.v202204301608, Location:
reference:file:plugins/org.eclipse.jst.server.preview.adapter_1.1.800.v202204301608.jar

Id: org.eclipse.jst.server.tomcat.core, Version: 1.2.0.v202208260501, Location:
reference:file:plugins/org.eclipse.jst.server.tomcat.core_1.2.0.v202208260501.jar

Id: org.eclipse.jst.server.tomcat.ui, Version: 1.1.1000.v202104010136, Location:
reference:file:plugins/org.eclipse.jst.server.tomcat.ui_1.1.1000.v202104010136.jar

Id: org.eclipse.jst.server.ui, Version: 1.1.500.v202103180201, Location:
reference:file:plugins/org.eclipse.jst.server.ui_1.1.500.v202103180201.jar

Id: org.eclipse.jst.server.ui.doc.user, Version: 1.0.600.v201901310132, Location:
reference:file:plugins/org.eclipse.jst.server.ui.doc.user_1.0.600.v201901310132.jar

Id: org.eclipse.jst.server.ui.infopop, Version: 1.0.500.v201901310132, Location:

reference:file:plugins/org.eclipse.jst.server.ui.infopop_1.0.500.v201901310132.jar
Id: org.eclipse.jst.servlet.ui, Version: 1.1.1500.v202208260434, Location:
reference:file:plugins/org.eclipse.jst.servlet.ui_1.1.1500.v202208260434.jar
Id: org.eclipse.jst.servlet.ui.infopop, Version: 1.0.500.v201903222024, Location:
reference:file:plugins/org.eclipse.jst.servlet.ui.infopop_1.0.500.v201903222024.jar
Id: org.eclipse.jst.standard.schemas, Version: 1.2.400.v202101070609, Location:
reference:file:plugins/org.eclipse.jst.standard.schemas_1.2.400.v202101070609.jar
Id: org.eclipse.jst.ws, Version: 1.0.1000.v202104210249, Location:
reference:file:plugins/org.eclipse.jst.ws_1.0.1000.v202104210249.jar
Id: org.eclipse.jst.ws.axis.consumption.core, Version: 1.0.600.v201910301957,
Location: reference:file:plugins/
org.eclipse.jst.ws.axis.consumption.core_1.0.600.v201910301957.jar
Id: org.eclipse.jst.ws.axis.consumption.ui, Version: 1.0.1000.v201910301957, Location:
reference:file:plugins/
org.eclipse.jst.ws.axis.consumption.ui_1.0.1000.v201910301957.jar
Id: org.eclipse.jst.ws.axis.creation.ui, Version: 1.0.1100.v202111210735, Location:
reference:file:plugins/org.eclipse.jst.ws.axis.creation.ui_1.0.1100.v202111210735.jar
Id: org.eclipse.jst.ws.axis.infopop, Version: 1.0.400.v201903050508, Location:
reference:file:plugins/org.eclipse.jst.ws.axis.infopop_1.0.400.v201903050508.jar
Id: org.eclipse.jst.ws.axis.ui.doc.user, Version: 1.1.200.v201903222115, Location:
reference:file:plugins/org.eclipse.jst.ws.axis.ui.doc.user_1.1.200.v201903222115.jar
Id: org.eclipse.jst.ws.consumption, Version: 1.0.1500.v202111210735, Location:
reference:file:plugins/org.eclipse.jst.ws.consumption_1.0.1500.v202111210735.jar
Id: org.eclipse.jst.ws.consumption.infopop, Version: 1.0.400.v201903050508, Location:
reference:file:plugins/
org.eclipse.jst.ws.consumption.infopop_1.0.400.v201903050508.jar
Id: org.eclipse.jst.ws.consumption.ui, Version: 1.1.1100.v202111210735, Location:
reference:file:plugins/org.eclipse.jst.ws.consumption.ui_1.1.1100.v202111210735.jar
Id: org.eclipse.jst.ws.consumption.ui.doc.user, Version: 1.0.700.v201903222115,
Location: reference:file:plugins/
org.eclipse.jst.ws.consumption.ui.doc.user_1.0.700.v201903222115.jar
Id: org.eclipse.jst.ws.creation.ejb.ui, Version: 1.0.300.v201910301957, Location:
reference:file:plugins/org.eclipse.jst.ws.creation.ejb.ui_1.0.300.v201910301957.jar
Id: org.eclipse.jst.ws.creation.ui, Version: 1.0.1001.v202103201626, Location:
reference:file:plugins/org.eclipse.jst.ws.creation.ui_1.0.1001.v202103201626.jar
Id: org.eclipse.jst.ws.doc.user, Version: 1.0.700.v201903222115, Location:
reference:file:plugins/org.eclipse.jst.ws.doc.user_1.0.700.v201903222115.jar
Id: org.eclipse.jst.ws.infopop, Version: 1.0.400.v201903050508, Location:
reference:file:plugins/org.eclipse.jst.ws.infopop_1.0.400.v201903050508.jar
Id: org.eclipse.jst.ws.jaxrs.core, Version: 1.0.851.v202101130222, Location:
reference:file:plugins/org.eclipse.jst.ws.jaxrs.core_1.0.851.v202101130222.jar
Id: org.eclipse.jst.ws.jaxrs.ui, Version: 1.0.801.v201906251834, Location:
reference:file:plugins/org.eclipse.jst.ws.jaxrs.ui_1.0.801.v201906251834.jar
Id: org.eclipse.jst.ws.uddiregistry, Version: 1.1.0.v201910301957, Location:
reference:file:plugins/org.eclipse.jst.ws.uddiregistry_1.1.0.v201910301957.jar
Id: org.eclipse.jst.ws.ui, Version: 1.1.1.v202103201626, Location: reference:file:plugins/
org.eclipse.jst.ws.ui_1.1.1.v202103201626.jar

Id: org.eclipse.justj.openjdk.hotspot.jre.full, Version: 17.0.4.v20220903-1038, Location: reference:file:plugins/
org.eclipse.justj.openjdk.hotspot.jre.full_17.0.4.v20220903-1038.jar
Id: org.eclipse.justj.openjdk.hotspot.jre.full.macosx.x86_64, Version: 17.0.4.v20220903-1038, Location: reference:file:plugins/
org.eclipse.justj.openjdk.hotspot.jre.full.macosx.x86_64_17.0.4.v20220903-1038/
Id: org.eclipse.lsp4e, Version: 0.14.0.202208241334, Location: reference:file:plugins/
org.eclipse.lsp4e_0.14.0.202208241334.jar
Id: org.eclipse.lsp4e.debug, Version: 0.14.0.202208051450, Location: reference:file:plugins/org.eclipse.lsp4e.debug_0.14.0.202208051450.jar
Id: org.eclipse.lsp4j, Version: 0.15.0.v20220805-0131, Location: reference:file:plugins/
org.eclipse.lsp4j_0.15.0.v20220805-0131.jar
Id: org.eclipse.lsp4j.debug, Version: 0.15.0.v20220805-0131, Location: reference:file:plugins/org.eclipse.lsp4j.debug_0.15.0.v20220805-0131.jar
Id: org.eclipse.lsp4j.jsonrpc, Version: 0.15.0.v20220805-0131, Location: reference:file:plugins/org.eclipse.lsp4j.jsonrpc_0.15.0.v20220805-0131.jar
Id: org.eclipse.lsp4j.jsonrpc.debug, Version: 0.15.0.v20220805-0131, Location: reference:file:plugins/org.eclipse.lsp4j.jsonrpc.debug_0.15.0.v20220805-0131.jar
Id: org.eclipse.ltk.core.refactoring, Version: 3.13.0.v20220822-0502, Location: reference:file:plugins/org.eclipse.ltk.core.refactoring_3.13.0.v20220822-0502.jar
Id: org.eclipse.ltk.ui.refactoring, Version: 3.12.200.v20220808-2221, Location: reference:file:plugins/org.eclipse.ltk.ui.refactoring_3.12.200.v20220808-2221.jar
Id: org.eclipse.m2e apt.core, Version: 2.0.0.20220706-1958, Location: reference:file:plugins/org.eclipse.m2e.apt.core_2.0.0.20220706-1958.jar
Id: org.eclipse.m2e.apt.ui, Version: 2.0.0.20220703-1731, Location: reference:file:plugins/org.eclipse.m2e.apt.ui_2.0.0.20220703-1731.jar
Id: org.eclipse.m2e.archetype.common, Version: 3.2.1.20220620-0741, Location: reference:file:plugins/org.eclipse.m2e.archetype.common_3.2.1.20220620-0741/
Id: org.eclipse.m2e.binaryproject, Version: 2.0.0.20220705-1221, Location: reference:file:plugins/org.eclipse.m2e.binaryproject_2.0.0.20220705-1221.jar
Id: org.eclipse.m2e.binaryproject.ui, Version: 2.0.0.20220705-1221, Location: reference:file:plugins/org.eclipse.m2e.binaryproject.ui_2.0.0.20220705-1221.jar
Id: org.eclipse.m2e.core, Version: 2.0.3.20220904-1703, Location: reference:file:plugins/org.eclipse.m2e.core_2.0.3.20220904-1703.jar
Id: org.eclipse.m2e.core.ui, Version: 2.0.0.20220726-0935, Location: reference:file:plugins/org.eclipse.m2e.core.ui_2.0.0.20220726-0935.jar
Id: org.eclipse.m2e.discovery, Version: 2.0.0.20220705-1608, Location: reference:file:plugins/org.eclipse.m2e.discovery_2.0.0.20220705-1608.jar
Id: org.eclipse.m2e.editor, Version: 2.0.1.20220809-1501, Location: reference:file:plugins/org.eclipse.m2e.editor_2.0.1.20220809-1501.jar
Id: org.eclipse.m2e.editor.lemminx, Version: 2.0.0.20220729-1256, Location: reference:file:plugins/org.eclipse.m2e.editor.lemminx_2.0.0.20220729-1256.jar
Id: org.eclipse.m2e.jdt, Version: 2.0.1.20220901-1459, Location: reference:file:plugins/
org.eclipse.m2e.jdt_2.0.1.20220901-1459.jar
Id: org.eclipse.m2e.jdt.ui, Version: 2.0.0.20220705-1221, Location: reference:file:plugins/org.eclipse.m2e.jdt.ui_2.0.0.20220705-1221.jar
Id: org.eclipse.m2e.launching, Version: 2.0.1.20220828-2046, Location:

reference:file:plugins/org.eclipse.m2e.launching_2.0.1.20220828-2046.jar
Id: org.eclipse.m2e.logback.appender, Version: 2.0.0.20220705-1221, Location:
reference:file:plugins/org.eclipse.m2e.logback.appender_2.0.0.20220705-1221.jar
Id: org.eclipse.m2e.logback.configuration, Version: 2.0.0.20220705-1221, Location:
reference:file:plugins/org.eclipse.m2e.logback.configuration_2.0.0.20220705-1221.jar
Id: org.eclipse.m2e.maven.runtime, Version: 3.8.601.20220820-1147, Location:
reference:file:plugins/org.eclipse.m2e.maven.runtime_3.8.601.20220820-1147/
Id: org.eclipse.m2e.mavenarchiver, Version: 2.0.1.20220805-1816, Location:
reference:file:plugins/org.eclipse.m2e.mavenarchiver_2.0.1.20220805-1816.jar
Id: org.eclipse.m2e.model.edit, Version: 2.0.0.20220703-1731, Location:
reference:file:plugins/org.eclipse.m2e.model.edit_2.0.0.20220703-1731.jar
Id: org.eclipse.m2e.profiles.core, Version: 2.0.0.20220703-1731, Location:
reference:file:plugins/org.eclipse.m2e.profiles.core_2.0.0.20220703-1731.jar
Id: org.eclipse.m2e.profiles.ui, Version: 2.0.0.20220705-1221, Location:
reference:file:plugins/org.eclipse.m2e.profiles.ui_2.0.0.20220705-1221.jar
Id: org.eclipse.m2e.refactoring, Version: 2.0.1.20220809-1501, Location:
reference:file:plugins/org.eclipse.m2e.refactoring_2.0.1.20220809-1501.jar
Id: org.eclipse.m2e.scm, Version: 2.0.0.20220705-1221, Location: reference:file:plugins/
org.eclipse.m2e.scm_2.0.0.20220705-1221.jar
Id: org.eclipse.m2e.sourcelookup, Version: 2.0.0.20220705-1608, Location:
reference:file:plugins/org.eclipse.m2e.sourcelookup_2.0.0.20220705-1608/
Id: org.eclipse.m2e.sourcelookup.ui, Version: 2.0.0.20220705-1221, Location:
reference:file:plugins/org.eclipse.m2e.sourcelookup.ui_2.0.0.20220705-1221.jar
Id: org.eclipse.m2e.workspace.cli, Version: 0.3.1, Location: reference:file:plugins/
org.eclipse.m2e.workspace.cli_0.3.1.jar
Id: org.eclipse.m2e.wtp, Version: 1.5.2.20220906-1452, Location: reference:file:plugins/
org.eclipse.m2e.wtp_1.5.2.20220906-1452.jar
Id: org.eclipse.m2e.wtp.overlay, Version: 1.5.0.20220805-2025, Location:
reference:file:plugins/org.eclipse.m2e.wtp.overlay_1.5.0.20220805-2025.jar
Id: org.eclipse.m2e.wtp.overlay.ui, Version: 1.5.0.20220805-2025, Location:
reference:file:plugins/org.eclipse.m2e.wtp.overlay.ui_1.5.0.20220805-2025.jar
Id: org.eclipse.mylyn.wikitext, Version: 3.0.42.20220107230029, Location:
reference:file:plugins/org.eclipse.mylyn.wikitext_3.0.42.20220107230029.jar
Id: org.eclipse.mylyn.wikitext.ant, Version: 3.0.42.20220107230029, Location:
reference:file:plugins/org.eclipse.mylyn.wikitext.ant_3.0.42.20220107230029.jar
Id: org.eclipse.mylyn.wikitext.asciidoc, Version: 3.0.42.20220107230029, Location:
reference:file:plugins/org.eclipse.mylyn.wikitext.asciidoc_3.0.42.20220107230029.jar
Id: org.eclipse.mylyn.wikitext.asciidoc.ui, Version: 3.0.42.202201072301, Location:
reference:file:plugins/org.eclipse.mylyn.wikitext.asciidoc.ui_3.0.42.202201072301.jar
Id: org.eclipse.mylyn.wikitext.confluence, Version: 3.0.42.20220107230029, Location:
reference:file:plugins/org.eclipse.mylyn.wikitext.confluence_3.0.42.20220107230029.jar
Id: org.eclipse.mylyn.wikitext.confluence.ui, Version: 3.0.42.202201072301, Location:
reference:file:plugins/org.eclipse.mylyn.wikitext.confluence.ui_3.0.42.202201072301.jar
Id: org.eclipse.mylyn.wikitext.help.ui, Version: 3.0.42.202201072301, Location:
reference:file:plugins/org.eclipse.mylyn.wikitext.help.ui_3.0.42.202201072301.jar
Id: org.eclipse.mylyn.wikitext.html, Version: 3.0.42.20220107230029, Location:
reference:file:plugins/org.eclipse.mylyn.wikitext.html_3.0.42.20220107230029.jar

Id: org.eclipse.mylyn.wikitext.markdown, Version: 3.0.42.20220107230029, Location: reference:file:plugins/org.eclipse.mylyn.wikitext.markdown_3.0.42.20220107230029.jar
Id: org.eclipse.mylyn.wikitext.markdown.ui, Version: 3.0.42.202201072301, Location: reference:file:plugins/org.eclipse.mylyn.wikitext.markdown.ui_3.0.42.202201072301.jar
Id: org.eclipse.mylyn.wikitext.mediawiki, Version: 3.0.42.20220107230029, Location: reference:file:plugins/org.eclipse.mylyn.wikitext.mediawiki_3.0.42.20220107230029.jar
Id: org.eclipse.mylyn.wikitext.mediawiki.ui, Version: 3.0.42.202201072301, Location: reference:file:plugins/org.eclipse.mylyn.wikitext.mediawiki.ui_3.0.42.202201072301.jar
Id: org.eclipse.mylyn.wikitext.osgi, Version: 3.0.42.202201072301, Location: reference:file:plugins/org.eclipse.mylyn.wikitext.osgi_3.0.42.202201072301.jar
Id: org.eclipse.mylyn.wikitext.textile, Version: 3.0.42.20220107230029, Location: reference:file:plugins/org.eclipse.mylyn.wikitext.textile_3.0.42.20220107230029.jar
Id: org.eclipse.mylyn.wikitext.textile.ui, Version: 3.0.42.202201072301, Location: reference:file:plugins/org.eclipse.mylyn.wikitext.textile.ui_3.0.42.202201072301.jar
Id: org.eclipse.mylyn.wikitext.tracwiki, Version: 3.0.42.20220107230029, Location: reference:file:plugins/org.eclipse.mylyn.wikitext.tracwiki_3.0.42.20220107230029.jar
Id: org.eclipse.mylyn.wikitext.tracwiki.ui, Version: 3.0.42.202201072301, Location: reference:file:plugins/org.eclipse.mylyn.wikitext.tracwiki.ui_3.0.42.202201072301.jar
Id: org.eclipse.mylyn.wikitext.twiki, Version: 3.0.42.20220107230029, Location: reference:file:plugins/org.eclipse.mylyn.wikitext.twiki_3.0.42.20220107230029.jar
Id: org.eclipse.mylyn.wikitext.twiki.ui, Version: 3.0.42.202201072301, Location: reference:file:plugins/org.eclipse.mylyn.wikitext.twiki.ui_3.0.42.202201072301.jar
Id: org.eclipse.mylyn.wikitext.ui, Version: 3.0.42.202201072301, Location: reference:file:plugins/org.eclipse.mylyn.wikitext.ui_3.0.42.202201072301.jar
Id: org.eclipse.nebula.widgets.tablecombo, Version: 1.2.0.202208171909, Location: reference:file:plugins/org.eclipse.nebula.widgets.tablecombo_1.2.0.202208171909.jar
Id: org.eclipse.oomph.base, Version: 1.17.0.v20220821-0916, Location: reference:file:plugins/org.eclipse.oomph.base_1.17.0.v20220821-0916.jar
Id: org.eclipse.oomph.base.edit, Version: 1.15.0.v20220601-1043, Location: reference:file:plugins/org.eclipse.oomph.base.edit_1.15.0.v20220601-1043.jar
Id: org.eclipse.oomph.extractor.lib, Version: 1.9.0.v20220421-1218, Location: reference:file:plugins/org.eclipse.oomph.extractor.lib_1.9.0.v20220421-1218.jar
Id: org.eclipse.oomph.jreinfo, Version: 1.17.0.v20220520-1242, Location: reference:file:plugins/org.eclipse.oomph.jreinfo_1.17.0.v20220520-1242.jar
Id: org.eclipse.oomph.jreinfo.ui, Version: 1.15.0.v20220520-1242, Location: reference:file:plugins/org.eclipse.oomph.jreinfo.ui_1.15.0.v20220520-1242.jar
Id: org.eclipse.oomph.p2, Version: 1.16.0.v20220421-1218, Location: reference:file:plugins/org.eclipse.oomph.p2_1.16.0.v20220421-1218.jar
Id: org.eclipse.oomph.p2.core, Version: 1.23.0.v20220822-1127, Location: reference:file:plugins/org.eclipse.oomph.p2.core_1.23.0.v20220822-1127.jar
Id: org.eclipse.oomph.p2.doc, Version: 1.13.0.v20220421-1218, Location: reference:file:plugins/org.eclipse.oomph.p2.doc_1.13.0.v20220421-1218.jar
Id: org.eclipse.oomph.p2.edit, Version: 1.16.0.v20220421-1218, Location: reference:file:plugins/org.eclipse.oomph.p2.edit_1.16.0.v20220421-1218.jar
Id: org.eclipse.oomph.p2.ui, Version: 1.18.0.v20220421-1218, Location: reference:file:plugins/org.eclipse.oomph.p2.ui_1.18.0.v20220421-1218.jar
Id: org.eclipse.oomph.predicates, Version: 1.14.0.v20220421-1218, Location:

reference:file:plugins/org.eclipse.oomph.predicates_1.14.0.v20220421-1218.jar
Id: org.eclipse.oomph.predicates.edit, Version: 1.13.0.v20220812-0835, Location:
reference:file:plugins/org.eclipse.oomph.predicates.edit_1.13.0.v20220812-0835.jar
Id: org.eclipse.oomph.preferences, Version: 1.13.0.v20220421-1218, Location:
reference:file:plugins/org.eclipse.oomph.preferences_1.13.0.v20220421-1218.jar
Id: org.eclipse.oomph.resources, Version: 1.17.0.v20220619-0650, Location:
reference:file:plugins/org.eclipse.oomph.resources_1.17.0.v20220619-0650.jar
Id: org.eclipse.oomph.resources.edit, Version: 1.12.0.v20220421-1218, Location:
reference:file:plugins/org.eclipse.oomph.resources.edit_1.12.0.v20220421-1218.jar
Id: org.eclipse.oomph.setup, Version: 1.25.0.v20220903-1123, Location:
reference:file:plugins/org.eclipse.oomph.setup_1.25.0.v20220903-1123.jar
Id: org.eclipse.oomph.setup.core, Version: 1.25.0.v20220822-1127, Location:
reference:file:plugins/org.eclipse.oomph.setup.core_1.25.0.v20220822-1127.jar
Id: org.eclipse.oomph.setup.doc, Version: 1.13.0.v20220520-0625, Location:
reference:file:plugins/org.eclipse.oomph.setup.doc_1.13.0.v20220520-0625.jar
Id: org.eclipse.oomph.setup.edit, Version: 1.16.0.v20220421-1218, Location:
reference:file:plugins/org.eclipse.oomph.setup.edit_1.16.0.v20220421-1218.jar
Id: org.eclipse.oomph.setup.editor, Version: 1.23.0.v20220905-0631, Location:
reference:file:plugins/org.eclipse.oomph.setup.editor_1.23.0.v20220905-0631.jar
Id: org.eclipse.oomph.setup.p2, Version: 1.19.0.v20220607-1104, Location:
reference:file:plugins/org.eclipse.oomph.setup.p2_1.19.0.v20220607-1104.jar
Id: org.eclipse.oomph.setup.p2.edit, Version: 1.14.0.v20220421-1218, Location:
reference:file:plugins/org.eclipse.oomph.setup.p2.edit_1.14.0.v20220421-1218.jar
Id: org.eclipse.oomph.setup.sync, Version: 1.14.0.v20220421-1218, Location:
reference:file:plugins/org.eclipse.oomph.setup.sync_1.14.0.v20220421-1218.jar
Id: org.eclipse.oomph.setup.ui, Version: 1.25.0.v20220905-0631, Location:
reference:file:plugins/org.eclipse.oomph.setup.ui_1.25.0.v20220905-0631.jar
Id: org.eclipse.oomph.setup.ui.questionnaire, Version: 1.13.0.v20220421-1218,
Location: reference:file:plugins/
org.eclipse.oomph.setup.ui.questionnaire_1.13.0.v20220421-1218.jar
Id: org.eclipse.oomph.ui, Version: 1.18.0.v20220907-0739, Location:
reference:file:plugins/org.eclipse.oomph.ui_1.18.0.v20220907-0739.jar
Id: org.eclipse.oomph.util, Version: 1.19.0.v20220616-0849, Location:
reference:file:plugins/org.eclipse.oomph.util_1.19.0.v20220616-0849.jar
Id: org.eclipse.oomph.workingsets, Version: 1.12.0.v20220421-1218, Location:
reference:file:plugins/org.eclipse.oomph.workingsets_1.12.0.v20220421-1218.jar
Id: org.eclipse.oomph.workingsets.edit, Version: 1.12.0.v20220421-1218, Location:
reference:file:plugins/org.eclipse.oomph.workingsets.edit_1.12.0.v20220421-1218.jar
Id: org.eclipse.oomph.workingsets.editor, Version: 1.13.0.v20220421-1218, Location:
reference:file:plugins/org.eclipse.oomph.workingsets.editor_1.13.0.v20220421-1218.jar
Id: org.eclipse.osgi, Version: 3.18.100.v20220817-1601, Location: System Bundle
Id: org.eclipse.osgi.compatibility.state, Version: 1.2.700.v20220722-0431, Location:
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org.eclipse.osgi.compatibility.state_1.2.700.v20220722-0431.jar
Id: org.eclipse.osgi.services, Version: 3.11.0.v20220618-0838, Location:
reference:file:plugins/org.eclipse.osgi.services_3.11.0.v20220618-0838.jar
Id: org.eclipse.osgi.util, Version: 3.7.100.v20220615-1601, Location:

reference:file:plugins/org.eclipse.osgi.util_3.7.100.v20220615-1601.jar
Id: org.eclipse.platform, Version: 4.25.0.v20220831-1800, Location:
reference:file:plugins/org.eclipse.platform_4.25.0.v20220831-1800/
Id: org.eclipse.platform.doc.user, Version: 4.25.0.v20220830-0901, Location:
reference:file:plugins/org.eclipse.platform.doc.user_4.25.0.v20220830-0901.jar
Id: org.eclipse.rcp, Version: 4.25.0.v20220831-1800, Location: reference:file:plugins/
org.eclipse.rcp_4.25.0.v20220831-1800.jar
Id: org.eclipse.search, Version: 3.14.200.v20220817-1340, Location:
reference:file:plugins/org.eclipse.search_3.14.200.v20220817-1340.jar
Id: org.eclipse.swt, Version: 3.121.0.v20220829-1402, Location: reference:file:plugins/
org.eclipse.swt_3.121.0.v20220829-1402.jar
Id: org.eclipse.swt.cocoa.macosx.x86_64, Version: 3.121.0.v20220829-1402, Location:
reference:file:plugins/
org.eclipse.swt.cocoa.macosx.x86_64_3.121.0.v20220829-1402.jar
Id: org.eclipse.team.core, Version: 3.9.500.v20220817-1539, Location:
reference:file:plugins/org.eclipse.team.core_3.9.500.v20220817-1539.jar
Id: org.eclipse.team.genericeditor.diff.extension, Version: 1.1.100.v20220812-1406,
Location: reference:file:plugins/
org.eclipse.team.genericeditor.diff.extension_1.1.100.v20220812-1406.jar
Id: org.eclipse.team.ui, Version: 3.9.400.v20220817-1539, Location:
reference:file:plugins/org.eclipse.team.ui_3.9.400.v20220817-1539.jar
Id: org.eclipse.text, Version: 3.12.200.v20220817-1340, Location: reference:file:plugins/
org.eclipse.text_3.12.200.v20220817-1340.jar
Id: org.eclipse.text.quicksearch, Version: 1.1.300.v20211203-1705, Location:
reference:file:plugins/org.eclipse.text.quicksearch_1.1.300.v20211203-1705.jar
Id: org.eclipse.tips.core, Version: 0.2.0.v20210317-2216, Location:
reference:file:plugins/org.eclipse.tips.core_0.2.0.v20210317-2216.jar
Id: org.eclipse.tips.ide, Version: 0.2.100.v20220811-0542, Location:
reference:file:plugins/org.eclipse.tips.ide_0.2.100.v20220811-0542.jar
Id: org.eclipse.tips.json, Version: 0.2.200.v20220619-1918, Location:
reference:file:plugins/org.eclipse.tips.json_0.2.200.v20220619-1918.jar
Id: org.eclipse.tips.ui, Version: 0.2.0.v20210317-2216, Location: reference:file:plugins/
org.eclipse.tips.ui_0.2.0.v20210317-2216.jar
Id: org.eclipse.tm.terminal.connector.local, Version: 4.7.300.202204200013, Location:
reference:file:plugins/org.eclipse.tm.terminal.connector.local_4.7.300.202204200013.jar
Id: org.eclipse.tm.terminal.connector.process, Version: 4.8.100.202204200013,
Location: reference:file:plugins/
org.eclipse.tm.terminal.connector.process_4.8.100.202204200013.jar
Id: org.eclipse.tm.terminal.connector.ssh, Version: 4.7.300.202204200013, Location:
reference:file:plugins/org.eclipse.tm.terminal.connector.ssh_4.7.300.202204200013.jar
Id: org.eclipse.tm.terminal.connector.telnet, Version: 4.7.200.202204200013, Location:
reference:file:plugins/
org.eclipse.tm.terminal.connector.telnet_4.7.200.202204200013.jar
Id: org.eclipse.tm.terminal.control, Version: 5.3.200.202204200013, Location:
reference:file:plugins/org.eclipse.tm.terminal.control_5.3.200.202204200013.jar
Id: org.eclipse.tm.terminal.view.core, Version: 4.8.300.202204200013, Location:
reference:file:plugins/org.eclipse.tm.terminal.view.core_4.8.300.202204200013.jar

Id: org.eclipse.tm.terminal.view.ui, Version: 4.10.300.202204200013, Location: reference:file:plugins/org.eclipse.tm.terminal.view.ui_4.10.300.202204200013.jar
Id: org.eclipse.tm4e.core, Version: 0.5.0.202206232130, Location: reference:file:plugins/org.eclipse.tm4e.core_0.5.0.202206232130.jar
Id: org.eclipse.tm4e.languageconfiguration, Version: 0.5.0.202206241118, Location: reference:file:plugins/org.eclipse.tm4e.languageconfiguration_0.5.0.202206241118.jar
Id: org.eclipse.tm4e.registry, Version: 0.6.0.202206241118, Location: reference:file:plugins/org.eclipse.tm4e.registry_0.6.0.202206241118.jar
Id: org.eclipse.tm4e.ui, Version: 0.6.0.202206241118, Location: reference:file:plugins/org.eclipse.tm4e.ui_0.6.0.202206241118.jar
Id: org.eclipse.ui, Version: 3.201.100.v20220826-1037, Location: reference:file:plugins/org.eclipse.ui_3.201.100.v20220826-1037.jar
Id: org.eclipse.ui.browser, Version: 3.7.200.v20220826-1037, Location: reference:file:plugins/org.eclipse.ui.browser_3.7.200.v20220826-1037.jar
Id: org.eclipse.ui.cheatsheets, Version: 3.7.400.v20220715-1705, Location: reference:file:plugins/org.eclipse.ui.cheatsheets_3.7.400.v20220715-1705.jar
Id: org.eclipse.ui.cocoa, Version: 1.2.400.v20191217-1850, Location: reference:file:plugins/org.eclipse.ui.cocoa_1.2.400.v20191217-1850.jar
Id: org.eclipse.ui.console, Version: 3.11.300.v20220811-1921, Location: reference:file:plugins/org.eclipse.ui.console_3.11.300.v20220811-1921.jar
Id: org.eclipse.ui.editors, Version: 3.14.400.v20220730-1844, Location: reference:file:plugins/org.eclipse.ui.editors_3.14.400.v20220730-1844.jar
Id: org.eclipse.ui.externaltools, Version: 3.5.200.v20220618-1805, Location: reference:file:plugins/org.eclipse.ui.externaltools_3.5.200.v20220618-1805.jar
Id: org.eclipse.ui.forms, Version: 3.11.400.v20220817-1444, Location: reference:file:plugins/org.eclipse.ui.forms_3.11.400.v20220817-1444.jar
Id: org.eclipse.ui.genericeditor, Version: 1.2.200.v20211217-1247, Location: reference:file:plugins/org.eclipse.ui.genericeditor_1.2.200.v20211217-1247.jar
Id: org.eclipse.ui.ide, Version: 3.19.100.v20220820-0412, Location: reference:file:plugins/org.eclipse.ui.ide_3.19.100.v20220820-0412.jar
Id: org.eclipse.ui.ide.application, Version: 1.4.500.v20220623-0641, Location: reference:file:plugins/org.eclipse.ui.ide.application_1.4.500.v20220623-0641.jar
Id: org.eclipse.ui.intro, Version: 3.6.600.v20220619-1918, Location: reference:file:plugins/org.eclipse.ui.intro_3.6.600.v20220619-1918.jar
Id: org.eclipse.ui.intro.quicklinks, Version: 1.1.200.v20220619-1918, Location: reference:file:plugins/org.eclipse.ui.intro.quicklinks_1.1.200.v20220619-1918.jar
Id: org.eclipse.ui.intro.universal, Version: 3.4.300.v20220619-1918, Location: reference:file:plugins/org.eclipse.ui.intro.universal_3.4.300.v20220619-1918.jar
Id: org.eclipse.ui.monitoring, Version: 1.2.200.v20220429-1040, Location: reference:file:plugins/org.eclipse.ui.monitoring_1.2.200.v20220429-1040.jar
Id: org.eclipse.ui.navigator, Version: 3.10.300.v20220817-1444, Location: reference:file:plugins/org.eclipse.ui.navigator_3.10.300.v20220817-1444.jar
Id: org.eclipse.ui.navigator.resources, Version: 3.8.400.v20220203-1803, Location: reference:file:plugins/org.eclipse.ui.navigator.resources_3.8.400.v20220203-1803.jar
Id: org.eclipse.ui.net, Version: 1.4.100.v20220812-1406, Location: reference:file:plugins/org.eclipse.ui.net_1.4.100.v20220812-1406.jar
Id: org.eclipse.ui.themes, Version: 1.2.2000.v20220614-2134, Location:

reference:file:plugins/org.eclipse.ui.themes_1.2.2000.v20220614-2134/
Id: org.eclipse.ui.views, Version: 3.11.200.v20220817-1444, Location:
reference:file:plugins/org.eclipse.ui.views_3.11.200.v20220817-1444.jar
Id: org.eclipse.ui.views.log, Version: 1.3.300.v20220717-1456, Location:
reference:file:plugins/org.eclipse.ui.views.log_1.3.300.v20220717-1456.jar
Id: org.eclipse.ui.views.properties.tabbed, Version: 3.9.200.v20220717-1456, Location:
reference:file:plugins/
org.eclipse.ui.views.properties.tabbed_3.9.200.v20220717-1456.jar
Id: org.eclipse.ui.workbench, Version: 3.126.0.v20220823-0718, Location:
reference:file:plugins/org.eclipse.ui.workbench_3.126.0.v20220823-0718.jar
Id: org.eclipse.ui.workbench.texteditor, Version: 3.16.600.v20220809-1658, Location:
reference:file:plugins/org.eclipse.ui.workbench.texteditor_3.16.600.v20220809-1658.jar
Id: org.eclipse.update.configurator, Version: 3.4.900.v20220718-1722, Location:
reference:file:plugins/org.eclipse.update.configurator_3.4.900.v20220718-1722.jar
Id: org.eclipse.urischeme, Version: 1.2.100.v20211001-1648, Location:
reference:file:plugins/org.eclipse.urischeme_1.2.100.v20211001-1648.jar
Id: org.eclipse.userstorage, Version: 1.2.0.v20210517-0327, Location:
reference:file:plugins/org.eclipse.userstorage_1.2.0.v20210517-0327.jar
Id: org.eclipse.userstorage.oauth, Version: 1.1.0.v20190307-0457, Location:
reference:file:plugins/org.eclipse.userstorage.oauth_1.1.0.v20190307-0457.jar
Id: org.eclipse.userstorage.ui, Version: 1.1.0.v20190307-0457, Location:
reference:file:plugins/org.eclipse.userstorage.ui_1.1.0.v20190307-0457.jar
Id: org.eclipse.wildwebdeveloper, Version: 0.6.0.202206151321, Location:
reference:file:plugins/org.eclipse.wildwebdeveloper_0.6.0.202206151321/
Id: org.eclipse.wildwebdeveloper.embedder.node, Version: 0.3.0.202206231201,
Location: reference:file:plugins/
org.eclipse.wildwebdeveloper.embedder.node_0.3.0.202206231201.jar
Id: org.eclipse.wildwebdeveloper.embedder.node.macos.x86_64, Version:
0.1.8.202205271506, Location: reference:file:plugins/
org.eclipse.wildwebdeveloper.embedder.node.macos.x86_64_0.1.8.202205271506.jar
Id: org.eclipse.wildwebdeveloper.xml, Version: 0.15.0.202207081036, Location:
reference:file:plugins/org.eclipse.wildwebdeveloper.xml_0.15.0.202207081036.jar
Id: org.eclipse.wst.command.env, Version: 1.0.600.v202007142057, Location:
reference:file:plugins/org.eclipse.wst.command.env_1.0.600.v202007142057.jar
Id: org.eclipse.wst.command.env.core, Version: 1.1.0.v201910301957, Location:
reference:file:plugins/org.eclipse.wst.command.env.core_1.1.0.v201910301957.jar
Id: org.eclipse.wst.command.env.doc.user, Version: 1.5.400.v201903222115, Location:
reference:file:plugins/
org.eclipse.wst.command.env.doc.user_1.5.400.v201903222115.jar
Id: org.eclipse.wst.command.env.infopop, Version: 1.0.200.v201903050508, Location:
reference:file:plugins/org.eclipse.wst.command.env.infopop_1.0.200.v201903050508.jar
Id: org.eclipse.wst.command.env.ui, Version: 1.2.0.v201910301957, Location:
reference:file:plugins/org.eclipse.wst.command.env.ui_1.2.0.v201910301957.jar
Id: org.eclipse.wst.common.core, Version: 1.4.100.v202103232321, Location:
reference:file:plugins/org.eclipse.wst.common.core_1.4.100.v202103232321.jar
Id: org.eclipse.wst.common.emf, Version: 1.2.700.v202007161535, Location:
reference:file:plugins/org.eclipse.wst.common.emf_1.2.700.v202007161535.jar

Id: org.eclipse.wst.common.emfworkbench.integration, Version: 1.2.102.v202007161535, Location: reference:file:plugins/org.eclipse.wst.common.emfworkbench.integration_1.2.102.v202007161535.jar
Id: org.eclipse.wst.common.environment, Version: 1.0.401.v202007142017, Location: reference:file:plugins/org.eclipse.wst.common.environment_1.0.401.v202007142017.jar
Id: org.eclipse.wst.common.frameworks, Version: 1.2.202.v202108200212, Location: reference:file:plugins/org.eclipse.wst.common.frameworks_1.2.202.v202108200212.jar
Id: org.eclipse.wst.common.frameworks.ui, Version: 1.2.401.v202007142017, Location: reference:file:plugins/org.eclipse.wst.common.frameworks.ui_1.2.401.v202007142017.jar
Id: org.eclipse.wst.common.infopop, Version: 1.0.301.v202007142017, Location: reference:file:plugins/org.eclipse.wst.common.infopop_1.0.301.v202007142017.jar
Id: org.eclipse.wst.common.modulecore, Version: 1.3.200.v202108200212, Location: reference:file:plugins/org.eclipse.wst.common.modulecore_1.3.200.v202108200212.jar
Id: org.eclipse.wst.common.modulecore.ui, Version: 1.0.302.v202007142017, Location: reference:file:plugins/org.eclipse.wst.common.modulecore.ui_1.0.302.v202007142017.jar
Id: org.eclipse.wst.common.project.facet.core, Version: 1.4.402.v202111212041, Location: reference:file:plugins/org.eclipse.wst.common.project.facet.core_1.4.402.v202111212041.jar
Id: org.eclipse.wst.common.project.facet.ui, Version: 1.4.602.v202007142017, Location: reference:file:plugins/org.eclipse.wst.common.project.facet.ui_1.4.602.v202007142017.jar
Id: org.eclipse.wst.common.snippets, Version: 1.2.600.v202207121617, Location: reference:file:plugins/org.eclipse.wst.common.snippets_1.2.600.v202207121617.jar
Id: org.eclipse.wst.common.ui, Version: 1.2.200.v202207121617, Location: reference:file:plugins/org.eclipse.wst.common.ui_1.2.200.v202207121617.jar
Id: org.eclipse.wst.common.uriresolver, Version: 1.3.0.v202007161535, Location: reference:file:plugins/org.eclipse.wst.common.uriresolver_1.3.0.v202007161535.jar
Id: org.eclipse.wst.css.core, Version: 1.3.100.v202207121749, Location: reference:file:plugins/org.eclipse.wst.css.core_1.3.100.v202207121749.jar
Id: org.eclipse.wst.css.ui, Version: 1.2.100.v202207121749, Location: reference:file:plugins/org.eclipse.wst.css.ui_1.2.100.v202207121749.jar
Id: org.eclipse.wst.doc.user, Version: 1.2.0.v201903222120, Location: reference:file:plugins/org.eclipse.wst.doc.user_1.2.0.v201903222120.jar
Id: org.eclipse.wst.dtd.core, Version: 1.2.300.v202207121749, Location: reference:file:plugins/org.eclipse.wst.dtd.core_1.2.300.v202207121749.jar
Id: org.eclipse.wst.dtd.ui, Version: 1.1.400.v202207121749, Location: reference:file:plugins/org.eclipse.wst.dtd.ui_1.1.400.v202207121749.jar
Id: org.eclipse.wst.dtd.ui.infopop, Version: 1.0.400.v201903222120, Location: reference:file:plugins/org.eclipse.wst.dtd.ui.infopop_1.0.400.v201903222120.jar
Id: org.eclipse.wst.dtdeditor.doc.user, Version: 1.1.0.v201903222120, Location: reference:file:plugins/org.eclipse.wst.dtdeditor.doc.user_1.1.0.v201903222120.jar
Id: org.eclipse.wst.html.core, Version: 1.4.200.v202207121749, Location: reference:file:plugins/org.eclipse.wst.html.core_1.4.200.v202207121749.jar
Id: org.eclipse.wst.html.ui, Version: 1.1.700.v202207121749, Location: reference:file:plugins/org.eclipse.wst.html.ui_1.1.700.v202207121749.jar

Id: org.eclipse.wst.html.ui.infopop, Version: 1.0.201.v201903222120, Location:
reference:file:plugins/org.eclipse.wst.html.ui.infopop_1.0.201.v201903222120.jar
Id: org.eclipse.wst.internet.cache, Version: 1.1.0.v202011161431, Location:
reference:file:plugins/org.eclipse.wst.internet.cache_1.1.0.v202011161431.jar
Id: org.eclipse.wst.internet.monitor.core, Version: 1.0.700.v202007170127, Location:
reference:file:plugins/org.eclipse.wst.internet.monitor.core_1.0.700.v202007170127.jar
Id: org.eclipse.wst.internet.monitor.ui, Version: 1.0.800.v202007170127, Location:
reference:file:plugins/org.eclipse.wst.internet.monitor.ui_1.0.800.v202007170127.jar
Id: org.eclipse.wst.jsdt.core, Version: 2.0.303.v202007221940, Location:
reference:file:plugins/org.eclipse.wst.jsdt.core_2.0.303.v202007221940.jar
Id: org.eclipse.wst.jsdt.manipulation, Version: 1.0.601.v201903222047, Location:
reference:file:plugins/org.eclipse.wst.jsdt.manipulation_1.0.601.v201903222047.jar
Id: org.eclipse.wst.jsdt.ui, Version: 2.1.400.v202204072230, Location:
reference:file:plugins/org.eclipse.wst.jsdt.ui_2.1.400.v202204072230.jar
Id: org.eclipse.wst.jsdt.web.core, Version: 1.1.200.v202207121749, Location:
reference:file:plugins/org.eclipse.wst.jsdt.web.core_1.1.200.v202207121749.jar
Id: org.eclipse.wst.jsdt.web.support.jsp, Version: 1.1.101.v202101180039, Location:
reference:file:plugins/org.eclipse.wst.jsdt.web.support.jsp_1.1.101.v202101180039.jar
Id: org.eclipse.wst.jsdt.web.ui, Version: 1.2.300.v202207121749, Location:
reference:file:plugins/org.eclipse.wst.jsdt.web.ui_1.2.300.v202207121749.jar
Id: org.eclipse.wst.json.bower.core, Version: 1.0.0.v201901071922, Location:
reference:file:plugins/org.eclipse.wst.json.bower.core_1.0.0.v201901071922.jar
Id: org.eclipse.wst.json.bower.ui, Version: 1.0.200.v201904210526, Location:
reference:file:plugins/org.eclipse.wst.json.bower.ui_1.0.200.v201904210526.jar
Id: org.eclipse.wst.json.core, Version: 1.1.0.v201901152013, Location:
reference:file:plugins/org.eclipse.wst.json.core_1.1.0.v201901152013.jar
Id: org.eclipse.wst.json.eslint.core, Version: 1.0.0.v201901071922, Location:
reference:file:plugins/org.eclipse.wst.json.eslint.core_1.0.0.v201901071922.jar
Id: org.eclipse.wst.json.eslint.ui, Version: 1.0.200.v201904210526, Location:
reference:file:plugins/org.eclipse.wst.json.eslint.ui_1.0.200.v201904210526.jar
Id: org.eclipse.wst.json.jshint.core, Version: 1.0.1.v201908281850, Location:
reference:file:plugins/org.eclipse.wst.json.jshint.core_1.0.1.v201908281850.jar
Id: org.eclipse.wst.json.jshint.ui, Version: 1.0.200.v201904210526, Location:
reference:file:plugins/org.eclipse.wst.json.jshint.ui_1.0.200.v201904210526.jar
Id: org.eclipse.wst.json.npm.core, Version: 1.0.0.v201901071922, Location:
reference:file:plugins/org.eclipse.wst.json.npm.core_1.0.0.v201901071922.jar
Id: org.eclipse.wst.json.npm.ui, Version: 1.0.100.v201904210526, Location:
reference:file:plugins/org.eclipse.wst.json.npm.ui_1.0.100.v201904210526.jar
Id: org.eclipse.wst.json.schemaprocessor, Version: 1.0.200.v201901071922, Location:
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org.eclipse.wst.json.schemaprocessor_1.0.200.v201901071922.jar
Id: org.eclipse.wst.json.ui, Version: 1.0.600.v202103121626, Location:
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Id: org.eclipse.wst.server.core, Version: 1.10.200.v202106020138, Location:
reference:file:plugins/org.eclipse.wst.server.core_1.10.200.v202106020138.jar
Id: org.eclipse.wst.server.discovery, Version: 1.3.500.v202204301608, Location:
reference:file:plugins/org.eclipse.wst.server.discovery_1.3.500.v202204301608.jar

Id: org.eclipse.wst.server.http.core, Version: 1.0.400.v202007170127, Location:
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Id: org.eclipse.wst.server.http.ui, Version: 1.0.500.v202007170127, Location:
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Id: org.eclipse.wst.server.preview, Version: 1.2.0.v202208120424, Location:
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Id: org.eclipse.wst.server.preview.adapter, Version: 1.1.600.v202106111324, Location:
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org.eclipse.wst.server.preview.adapter_1.1.600.v202106111324.jar
Id: org.eclipse.wst.server.ui, Version: 1.5.800.v202208260501, Location:
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Id: org.eclipse.wst.server.ui.doc.user, Version: 1.1.600.v201901310132, Location:
reference:file:plugins/org.eclipse.wst.server.ui.doc.user_1.1.600.v201901310132.jar
Id: org.eclipse.wst.server.ui.infopop, Version: 1.1.200.v201901310132, Location:
reference:file:plugins/org.eclipse.wst.server.ui.infopop_1.1.200.v201901310132.jar
Id: org.eclipse.wst.sse.core, Version: 1.2.800.v202207121749, Location:
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Id: org.eclipse.wst.sse.doc.user, Version: 1.2.0.v201903222120, Location:
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Id: org.eclipse.wst.sse.ui, Version: 1.7.500.v202207121749, Location:
reference:file:plugins/org.eclipse.wst.sse.ui_1.7.500.v202207121749.jar
Id: org.eclipse.wst.sse.ui.infopop, Version: 1.0.300.v201903222120, Location:
reference:file:plugins/org.eclipse.wst.sse.ui.infopop_1.0.300.v201903222120.jar
Id: org.eclipse.wst.standard.schemas, Version: 1.0.800.v201901071922, Location:
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Id: org.eclipse.wst.validation, Version: 1.2.801.v202007142017, Location:
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Id: org.eclipse.wst.validation.infopop, Version: 1.0.300.v202007131715, Location:
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Id: org.eclipse.wst.validation.ui, Version: 1.2.601.v202007142017, Location:
reference:file:plugins/org.eclipse.wst.validation.ui_1.2.601.v202007142017.jar
Id: org.eclipse.wst.web, Version: 1.3.100.v202206160209, Location:
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Id: org.eclipse.wst.web.ui, Version: 1.2.300.v202206160209, Location:
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Id: org.eclipse.wst.web.ui.infopop, Version: 1.0.300.v201903222120, Location:
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Id: org.eclipse.wst.webtools.doc.user, Version: 1.0.500.v201903222120, Location:
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Id: org.eclipse.wst.ws, Version: 1.1.600.v202007222105, Location:
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Id: org.eclipse.wst.ws.explorer, Version: 1.1.0.v202204231557, Location:
reference:file:plugins/org.eclipse.wst.ws.explorer_1.1.0.v202204231557.jar
Id: org.eclipse.wst.ws.infopop, Version: 1.0.400.v201903050508, Location:
reference:file:plugins/org.eclipse.wst.ws.infopop_1.0.400.v201903050508.jar
Id: org.eclipse.wst.ws.parser, Version: 1.1.0.v201910301957, Location:
reference:file:plugins/org.eclipse.wst.ws.parser_1.1.0.v201910301957.jar

Id: org.eclipse.wst.ws.service.policy, Version: 1.0.450.v201903050508, Location: reference:file:plugins/org.eclipse.wst.ws.service.policy_1.0.450.v201903050508.jar
Id: org.eclipse.wst.ws.service.policy.ui, Version: 1.0.500.v201903050508, Location: reference:file:plugins/org.eclipse.wst.ws.service.policy.ui_1.0.500.v201903050508.jar
Id: org.eclipse.wst.ws.ui, Version: 1.2.0.v201910301957, Location: reference:file:plugins/org.eclipse.wst.ws.ui_1.2.0.v201910301957.jar
Id: org.eclipse.wst.wsdl, Version: 1.3.0.v201910301957, Location: reference:file:plugins/org.eclipse.wst.wsdl_1.3.0.v201910301957.jar
Id: org.eclipse.wst.wsdl.ui, Version: 1.3.100.v202004082216, Location: reference:file:plugins/org.eclipse.wst.wsdl.ui_1.3.100.v202004082216.jar
Id: org.eclipse.wst.wsdl.ui.doc.user, Version: 1.0.850.v201903222115, Location: reference:file:plugins/org.eclipse.wst.wsdl.ui.doc.user_1.0.850.v201903222115.jar
Id: org.eclipse.wst.wsdl.validation, Version: 1.3.100.v202205160247, Location: reference:file:plugins/org.eclipse.wst.wsdl.validation_1.3.100.v202205160247.jar
Id: org.eclipse.wst.wsi, Version: 1.1.400.v202205160247, Location: reference:file:plugins/org.eclipse.wst.wsi_1.1.400.v202205160247.jar
Id: org.eclipse.wst.wsi.ui, Version: 1.1.100.v202007221938, Location: reference:file:plugins/org.eclipse.wst.wsi.ui_1.1.100.v202007221938.jar
Id: org.eclipse.wst.wsi.ui.doc.user, Version: 1.0.750.v201903222115, Location: reference:file:plugins/org.eclipse.wst.wsi.ui.doc.user_1.0.750.v201903222115.jar
Id: org.eclipse.wst.xml.core, Version: 1.2.600.v202207121749, Location: reference:file:plugins/org.eclipse.wst.xml.core_1.2.600.v202207121749.jar
Id: org.eclipse.wst.xml.ui, Version: 1.2.700.v202208280234, Location: reference:file:plugins/org.eclipse.wst.xml.ui_1.2.700.v202208280234.jar
Id: org.eclipse.wst.xml.ui.infopop, Version: 1.0.400.v201903222120, Location: reference:file:plugins/org.eclipse.wst.xml.ui.infopop_1.0.400.v201903222120.jar
Id: org.eclipse.wst.xml.editor.doc.user, Version: 1.1.0.v201903222120, Location: reference:file:plugins/org.eclipse.wst.xml.editor.doc.user_1.1.0.v201903222120.jar
Id: org.eclipse.wst.xsd.core, Version: 1.2.100.v202008180353, Location: reference:file:plugins/org.eclipse.wst.xsd.core_1.2.100.v202008180353.jar
Id: org.eclipse.wst.xsd.ui, Version: 1.3.500.v202207121749, Location: reference:file:plugins/org.eclipse.wst.xsd.ui_1.3.500.v202207121749.jar
Id: org.eclipse.wst.xsdeditor.doc.user, Version: 1.0.800.v201903222120, Location: reference:file:plugins/org.eclipse.wst.xsdeditor.doc.user_1.0.800.v201903222120.jar
Id: org.eclipse.xsd, Version: 2.18.0.v20220616-0915, Location: reference:file:plugins/org.eclipse.xsd_2.18.0.v20220616-0915.jar
Id: org.eclipse.xsd.edit, Version: 2.11.0.v20200723-0820, Location: reference:file:plugins/org.eclipse.xsd.edit_2.11.0.v20200723-0820.jar
Id: org.eclipse.xtext.xbase.lib, Version: 2.28.0.v20220829-0436, Location: reference:file:plugins/org.eclipse.xtext.xbase.lib_2.28.0.v20220829-0436.jar
Id: org.gradle.toolingapi, Version: 7.4.2.v20220510-1312-s, Location: reference:file:plugins/org.gradle.toolingapi_7.4.2.v20220510-1312-s.jar
Id: org.hamcrest.core, Version: 1.3.0.v20180420-1519, Location: reference:file:plugins/org.hamcrest.core_1.3.0.v20180420-1519.jar
Id: org.jacoco.agent, Version: 0.8.8.v20220415-0921, Location: reference:file:plugins/org.jacoco.agent_0.8.8.v20220415-0921.jar
Id: org.jacoco.core, Version: 0.8.8.v20220517-1805, Location: reference:file:plugins/

org.jacoco.core_0.8.8.v20220517-1805.jar
Id: org.jacoco.report, Version: 0.8.8.v20220517-1805, Location: reference:file:plugins/
org.jacoco.report_0.8.8.v20220517-1805.jar
Id: org.jcodings, Version: 1.0.57, Location: reference:file:plugins/org.jcodings_1.0.57.jar
Id: org.joni, Version: 2.1.43, Location: reference:file:plugins/org.joni_2.1.43.jar
Id: org.jsoup, Version: 1.14.3.v20211012-1727, Location: reference:file:plugins/
org.jsoup_1.14.3.v20211012-1727.jar
Id: org.junit, Version: 4.13.2.v20211018-1956, Location: reference:file:plugins/
org.junit_4.13.2.v20211018-1956.jar
Id: org.objectweb.asm, Version: 9.3.0.v20220409-0157, Location: reference:file:plugins/
org.objectweb.asm_9.3.0.v20220409-0157.jar
Id: org.objectweb.asm.commons, Version: 9.3.0.v20220409-0157, Location:
reference:file:plugins/org.objectweb.asm.commons_9.3.0.v20220409-0157.jar
Id: org.objectweb.asm.tree, Version: 9.3.0.v20220409-0157, Location:
reference:file:plugins/org.objectweb.asm.tree_9.3.0.v20220409-0157.jar
Id: org.opentest4j, Version: 1.2.0, Location: reference:file:plugins/
org.opentest4j_1.2.0.jar
Id: org.osgi.service.cm, Version: 1.6.1.202109301733, Location: reference:file:plugins/
org.osgi.service.cm_1.6.1.202109301733.jar
Id: org.osgi.service.component, Version: 1.5.0.202109301733, Location:
reference:file:plugins/org.osgi.service.component_1.5.0.202109301733.jar
Id: org.osgi.service.device, Version: 1.1.1.202109301733, Location:
reference:file:plugins/org.osgi.service.device_1.1.1.202109301733.jar
Id: org.osgi.service.event, Version: 1.4.1.202109301733, Location:
reference:file:plugins/org.osgi.service.event_1.4.1.202109301733.jar
Id: org.osgi.service.metatype, Version: 1.4.1.202109301733, Location:
reference:file:plugins/org.osgi.service.metatype_1.4.1.202109301733.jar
Id: org.osgi.service.prefs, Version: 1.1.2.202109301733, Location: reference:file:plugins/
org.osgi.service.prefs_1.1.2.202109301733.jar
Id: org.osgi.service.provisioning, Version: 1.2.0.201505202024, Location:
reference:file:plugins/org.osgi.service.provisioning_1.2.0.201505202024.jar
Id: org.osgi.service.upnp, Version: 1.2.1.202109301733, Location: reference:file:plugins/
org.osgi.service.upnp_1.2.1.202109301733.jar
Id: org.osgi.service.useradmin, Version: 1.1.1.202109301733, Location:
reference:file:plugins/org.osgi.service.useradmin_1.1.1.202109301733.jar
Id: org.osgi.service.wireadmin, Version: 1.0.2.202109301733, Location:
reference:file:plugins/org.osgi.service.wireadmin_1.0.2.202109301733.jar
Id: org.osgi.util.function, Version: 1.2.0.202109301733, Location: reference:file:plugins/
org.osgi.util.function_1.2.0.202109301733.jar
Id: org.osgi.util.measurement, Version: 1.0.2.201802012109, Location:
reference:file:plugins/org.osgi.util.measurement_1.0.2.201802012109.jar
Id: org.osgi.util.position, Version: 1.0.1.201505202026, Location: reference:file:plugins/
org.osgi.util.position_1.0.1.201505202026.jar
Id: org.osgi.util.promise, Version: 1.2.0.202109301733, Location: reference:file:plugins/
org.osgi.util.promise_1.2.0.202109301733.jar
Id: org.osgi.util.xml, Version: 1.0.2.202109301733, Location: reference:file:plugins/
org.osgi.util.xml_1.0.2.202109301733.jar

Id: org.sat4j.core, Version: 2.3.6.v20201214, Location: reference:file:plugins/
org.sat4j.core_2.3.6.v20201214.jar
Id: org.sat4j.pb, Version: 2.3.6.v20201214, Location: reference:file:plugins/
org.sat4j.pb_2.3.6.v20201214.jar
Id: org.slf4j.api, Version: 1.7.30.v20200204-2150, Location: reference:file:plugins/
org.slf4j.api_1.7.30.v20200204-2150.jar
Id: org.tukaani.xz, Version: 1.9.0, Location: reference:file:plugins/
org.tukaani.xz_1.9.0.jar
Id: org.uddi4j, Version: 2.0.5.v200805270300, Location: reference:file:plugins/
org.uddi4j_2.0.5.v200805270300.jar
Id: org.w3c.css.sac, Version: 1.3.1.v200903091627, Location: reference:file:plugins/
org.w3c.css.sac_1.3.1.v200903091627.jar
Id: org.w3c.dom.events, Version: 3.0.0.draft20060413_v201105210656, Location:
reference:file:plugins/org.w3c.dom.events_3.0.0.draft20060413_v201105210656.jar
Id: org.w3c.dom.smil, Version: 1.0.1.v200903091627, Location: reference:file:plugins/
org.w3c.dom.smil_1.0.1.v200903091627.jar
Id: org.w3c.dom.svg, Version: 1.1.0.v201011041433, Location: reference:file:plugins/
org.w3c.dom.svg_1.1.0.v201011041433.jar
Id: org.yaml.snakeyaml, Version: 1.27.0.v20201111-1638, Location:
reference:file:plugins/org.yaml.snakeyaml_1.27.0.v20201111-1638.jar

*** Security Configuration:
Providers (14):

Provider: SUN, Version: 17.0, Class: sun.security.provider.Sun
Description: SUN (DSA key/parameter generation; DSA signing; SHA-1, MD5 digests;
SecureRandom; X.509 certificates; PKCS12, JKS & DKS keystores; PKIX
CertPathValidator; PKIX CertPathBuilder; LDAP, Collection CertStores, JavaPolicy
Policy; JavaLoginConfig Configuration)
Services (53):
Service: MessageDigest, Algorithm: SHA-1, Class: sun.security.provider.SHA
Aliases: SHA1
Attributes:
ImplementedIn: Software
Service: MessageDigest, Algorithm: SHA-384, Class:
sun.security.provider.SHA5\$SHA384
Aliases: 2.16.840.1.101.3.4.2.2
Attributes:
ImplementedIn: Software
Service: CertPathBuilder, Algorithm: PKIX, Class:
sun.security.provider.certpath.SunCertPathBuilder
Attributes:
ImplementedIn: Software
ValidationAlgorithm: RFC5280
Service: Signature, Algorithm: SHA256withDSA, Class:
sun.security.provider.DSA\$SHA256withDSA
Aliases: 2.16.840.1.101.3.4.3.2

Attributes:
ImplementedIn: Software
KeySize: 2048
SupportedKeyClasses: java.security.interfaces.DSAPublicKey
java.security.interfaces.DSAPrivateKey
Service: AlgorithmParameterGenerator, Algorithm: DSA, Class:
sun.security.provider.DSAPrivateKeyGenerator
Aliases: 1.3.14.3.2.12
Attributes:
ImplementedIn: Software
KeySize: 2048
Service: MessageDigest, Algorithm: SHA-256, Class:
sun.security.provider.SHA2\$SHA256
Aliases: 2.16.840.1.101.3.4.2.1
Attributes:
ImplementedIn: Software
Service: MessageDigest, Algorithm: SHA-512, Class:
sun.security.provider.SHA5\$SHA512
Aliases: 2.16.840.1.101.3.4.2.3
Attributes:
ImplementedIn: Software
Service: MessageDigest, Algorithm: SHA-224, Class:
sun.security.provider.SHA2\$SHA224
Aliases: 2.16.840.1.101.3.4.2.4
Attributes:
ImplementedIn: Software
Service: KeyStore, Algorithm: DKS, Class:
sun.security.provider.DomainKeyStore\$DKS
Attributes:
ImplementedIn: Software
Service: SecureRandom, Algorithm: SHA1PRNG, Class:
sun.security.provider.SecureRandom
Attributes:
ImplementedIn: Software
ThreadSafe: true
Service: Signature, Algorithm: SHA512withDSAINP1363Format, Class:
sun.security.provider.DSA\$SHA512withDSAINP1363Format
Service: Signature, Algorithm: SHA3-512withDSAINP1363Format, Class:
sun.security.provider.DSA\$SHA3_512withDSAINP1363Format
Service: CertStore, Algorithm: Collection, Class:
sun.security.provider.certpath.CollectionCertStore
Attributes:
ImplementedIn: Software
Service: Signature, Algorithm: SHA3-256withDSA, Class:
sun.security.provider.DSA\$SHA3_256withDSA
Aliases: 2.16.840.1.101.3.4.3.6
Attributes:

ImplementedIn: Software
KeySize: 2048
SupportedKeyClasses: java.security.interfaces.DSAPublicKey
java.security.interfaces.DSAPrivateKey
Service: Signature, Algorithm: SHA1withDSA, Class:
sun.security.provider.DSA\$SHA1withDSA
Aliases: 1.3.14.3.2.27
Attributes:
ImplementedIn: Software
KeySize: 1024
SupportedKeyClasses: java.security.interfaces.DSAPublicKey
java.security.interfaces.DSAPrivateKey
Service: AlgorithmParameters, Algorithm: DSA, Class:
sun.security.provider.DSAParameters
Aliases: 1.3.14.3.2.12
Attributes:
ImplementedIn: Software
Service: SecureRandom, Algorithm: DRBG, Class: sun.security.provider.DRBG
Attributes:
ImplementedIn: Software
ThreadSafe: true
Service: Signature, Algorithm: SHA3-224withDSAINP1363Format, Class:
sun.security.provider.DSA\$SHA3_224withDSAINP1363Format
Service: Signature, Algorithm: SHA384withDSA, Class:
sun.security.provider.DSA\$SHA384withDSA
Aliases: 2.16.840.1.101.3.4.3.3
Attributes:
ImplementedIn: Software
KeySize: 3072
SupportedKeyClasses: java.security.interfaces.DSAPublicKey
java.security.interfaces.DSAPrivateKey
Service: Signature, Algorithm: SHA224withDSAINP1363Format, Class:
sun.security.provider.DSA\$SHA224withDSAINP1363Format
Service: SecureRandom, Algorithm: NativePRNGBlocking, Class:
sun.security.provider.NativePRNG\$Blocking
Attributes:
ThreadSafe: true
Service: CertificateFactory, Algorithm: X.509, Class:
sun.security.provider.X509Factory
Aliases: X509
Attributes:
ImplementedIn: Software
Service: KeyStore, Algorithm: JKS, Class:
sun.security.provider.JavaKeyStore\$DualFormatJKS
Attributes:
ImplementedIn: Software
Service: KeyStore, Algorithm: PKCS12, Class:

sun.security.pkcs12.PKCS12KeyStore\$DualFormatPKCS12
Service: MessageDigest, Algorithm: SHA-512/224, Class:
sun.security.provider.SHA5\$SHA512_224
Aliases: 2.16.840.1.101.3.4.2.5
Attributes:
ImplementedIn: Software
Service: MessageDigest, Algorithm: SHA-512/256, Class:
sun.security.provider.SHA5\$SHA512_256
Aliases: 2.16.840.1.101.3.4.2.6
Attributes:
ImplementedIn: Software
Service: MessageDigest, Algorithm: MD5, Class: sun.security.provider.MD5
Attributes:
ImplementedIn: Software
Service: KeyPairGenerator, Algorithm: DSA, Class:
sun.security.provider.DSAKeyPairGenerator\$Current
Aliases: 1.3.14.3.2.12
Attributes:
ImplementedIn: Software
KeySize: 2048
Service: MessageDigest, Algorithm: MD2, Class: sun.security.provider.MD2
Attributes:
ImplementedIn: Software
Service: Configuration, Algorithm: JavaLoginConfig, Class:
sun.security.provider.ConfigFile\$Spi
Service: MessageDigest, Algorithm: SHA3-384, Class:
sun.security.provider.SHA3\$SHA384
Aliases: 2.16.840.1.101.3.4.2.9
Attributes:
ImplementedIn: Software
Service: CertPathValidator, Algorithm: PKIX, Class:
sun.security.provider.certpath.PKIXCertPathValidator
Attributes:
ImplementedIn: Software
ValidationAlgorithm: RFC5280
Service: SecureRandom, Algorithm: NativePRNG, Class:
sun.security.provider.NativePRNG
Attributes:
ThreadSafe: true
Service: Signature, Algorithm: NONEwithDSAINP1363Format, Class:
sun.security.provider.DSA\$RawDSAINP1363Format
Service: MessageDigest, Algorithm: SHA3-512, Class:
sun.security.provider.SHA3\$SHA512
Aliases: OID.2.16.840.1.101.3.4.2.10
Attributes:
ImplementedIn: Software
Service: Signature, Algorithm: SHA3-384withDSA, Class:

sun.security.provider.DSA\$SHA3_384withDSA
Aliases: 2.16.840.1.101.3.4.3.7
Attributes:
ImplementedIn: Software
KeySize: 3072
SupportedKeyClasses: java.security.interfaces.DSAPublicKey
java.security.interfaces.DSAPrivateKey
Service: MessageDigest, Algorithm: SHA3-224, Class:
sun.security.provider.SHA3\$SHA224
Aliases: 2.16.840.1.101.3.4.2.7
Attributes:
ImplementedIn: Software
Service: MessageDigest, Algorithm: SHA3-256, Class:
sun.security.provider.SHA3\$SHA256
Aliases: 2.16.840.1.101.3.4.2.8
Attributes:
ImplementedIn: Software
Service: KeyStore, Algorithm: CaseExactJKS, Class:
sun.security.provider.JavaKeyStore\$CaseExactJKS
Attributes:
ImplementedIn: Software
Service: Policy, Algorithm: JavaPolicy, Class: sun.security.provider.PolicySpiFile
Service: SecureRandom, Algorithm: NativePRNGNonBlocking, Class:
sun.security.provider.NativePRNG\$NonBlocking
Attributes:
ThreadSafe: true
Service: Signature, Algorithm: SHA224withDSA, Class:
sun.security.provider.DSA\$SHA224withDSA
Aliases: 2.16.840.1.101.3.4.3.1
Attributes:
ImplementedIn: Software
KeySize: 2048
SupportedKeyClasses: java.security.interfaces.DSAPublicKey
java.security.interfaces.DSAPrivateKey
Service: Signature, Algorithm: SHA3-256withDSAINP1363Format, Class:
sun.security.provider.DSA\$SHA3_256withDSAINP1363Format
Service: Signature, Algorithm: NONEwithDSA, Class:
sun.security.provider.DSA\$RawDSA
Aliases: RawDSA
Attributes:
ImplementedIn: Software
KeySize: 1024
SupportedKeyClasses: java.security.interfaces.DSAPublicKey
java.security.interfaces.DSAPrivateKey
Service: Signature, Algorithm: SHA512withDSA, Class:
sun.security.provider.DSA\$SHA512withDSA
Aliases: 2.16.840.1.101.3.4.3.4

Attributes:

ImplementedIn: Software

KeySize: 3072

SupportedKeyClasses: java.security.interfaces.DSAPublicKey

java.security.interfaces.DSAPrivateKey

Service: Signature, Algorithm: SHA256withDSAP1363Format, Class:
sun.security.provider.DSA\$SHA256withDSAP1363Format

Service: CertStore, Algorithm: com.sun.security.IndexedCollection, Class:
sun.security.provider.certpath.IndexedCollectionCertStore

Attributes:

ImplementedIn: Software

Service: Signature, Algorithm: SHA3-384withDSAP1363Format, Class:
sun.security.provider.DSA\$SHA3_384withDSAP1363Format

Service: Signature, Algorithm: SHA384withDSAP1363Format, Class:
sun.security.provider.DSA\$SHA384withDSAP1363Format

Service: KeyFactory, Algorithm: DSA, Class: sun.security.provider.DSAKeyFactory

Aliases: 1.3.14.3.2.12

Attributes:

ImplementedIn: Software

Service: Signature, Algorithm: SHA3-224withDSA, Class:
sun.security.provider.DSA\$SHA3_224withDSA

Aliases: 2.16.840.1.101.3.4.3.5

Attributes:

ImplementedIn: Software

KeySize: 2048

SupportedKeyClasses: java.security.interfaces.DSAPublicKey

java.security.interfaces.DSAPrivateKey

Service: Signature, Algorithm: SHA3-512withDSA, Class:
sun.security.provider.DSA\$SHA3_512withDSA

Aliases: 2.16.840.1.101.3.4.3.8

Attributes:

ImplementedIn: Software

KeySize: 3072

SupportedKeyClasses: java.security.interfaces.DSAPublicKey

java.security.interfaces.DSAPrivateKey

Service: Signature, Algorithm: SHA1withDSAP1363Format, Class:
sun.security.provider.DSA\$SHA1withDSAP1363Format

Provider: SunRsaSign, Version: 17.0, Class: sun.security.rsa.SunRsaSign

Description: Sun RSA signature provider

Services (19):

Service: KeyFactory, Algorithm: RSASSA-PSS, Class:
sun.security.rsa.RSAKeyFactory\$PSS

Aliases: 1.2.840.113549.1.1.10

Attributes:

SupportedKeyClasses: java.security.interfaces.RSAPublicKey

java.security.interfaces.RSAPrivateKey

Service: Signature, Algorithm: RSASSA-PSS, Class:
sun.security.rsa.RSAPSSSignature
Aliases: 1.2.840.113549.1.1.10
Attributes:
SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey
Service: Signature, Algorithm: SHA3-224withRSA, Class:
sun.security.rsa.RSASignature\$SHA3_224withRSA
Aliases: 2.16.840.1.101.3.4.3.13
Attributes:
SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey
Service: Signature, Algorithm: SHA224withRSA, Class:
sun.security.rsa.RSASignature\$SHA224withRSA
Aliases: 1.2.840.113549.1.1.14
Attributes:
SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey
Service: KeyPairGenerator, Algorithm: RSA, Class:
sun.security.rsa.RSAKeyPairGenerator\$Legacy
Aliases: 1.2.840.113549.1.1
Service: Signature, Algorithm: SHA3-512withRSA, Class:
sun.security.rsa.RSASignature\$SHA3_512withRSA
Aliases: 2.16.840.1.101.3.4.3.16
Attributes:
SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey
Service: KeyFactory, Algorithm: RSA, Class: sun.security.rsa.RSAKeyFactory\$Legacy
Aliases: 1.2.840.113549.1.1
Service: Signature, Algorithm: SHA3-384withRSA, Class:
sun.security.rsa.RSASignature\$SHA3_384withRSA
Aliases: 2.16.840.1.101.3.4.3.15
Attributes:
SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey
Service: Signature, Algorithm: MD2withRSA, Class:
sun.security.rsa.RSASignature\$MD2withRSA
Aliases: OID.1.2.840.113549.1.1.2
Attributes:
SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey
Service: AlgorithmParameters, Algorithm: RSASSA-PSS, Class:
sun.security.rsa.PSSParameters
Aliases: 1.2.840.113549.1.1.10
Service: Signature, Algorithm: SHA3-256withRSA, Class:
sun.security.rsa.RSASignature\$SHA3_256withRSA
Aliases: 2.16.840.1.101.3.4.3.14

Attributes:

SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey

Service: KeyPairGenerator, Algorithm: RSASSA-PSS, Class:
sun.security.rsa.RSAKeyPairGenerator\$PSS

Aliases: 1.2.840.113549.1.1.10

Attributes:

SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey

Service: Signature, Algorithm: SHA512/256withRSA, Class:
sun.security.rsa.RSASignature\$SHA512_256withRSA

Aliases: 1.2.840.113549.1.1.16

Attributes:

SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey

Service: Signature, Algorithm: SHA384withRSA, Class:
sun.security.rsa.RSASignature\$SHA384withRSA

Aliases: 1.2.840.113549.1.1.12

Attributes:

SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey

Service: Signature, Algorithm: MD5withRSA, Class:
sun.security.rsa.RSASignature\$MD5withRSA

Aliases: OID.1.2.840.113549.1.1.4

Attributes:

SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey

Service: Signature, Algorithm: SHA1withRSA, Class:
sun.security.rsa.RSASignature\$SHA1withRSA

Aliases: OID.1.2.840.113549.1.1.5

Attributes:

SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey

Service: Signature, Algorithm: SHA512/224withRSA, Class:
sun.security.rsa.RSASignature\$SHA512_224withRSA

Aliases: 1.2.840.113549.1.1.15

Attributes:

SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey

Service: Signature, Algorithm: SHA256withRSA, Class:
sun.security.rsa.RSASignature\$SHA256withRSA

Aliases: 1.2.840.113549.1.1.11

Attributes:

SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey

Service: Signature, Algorithm: SHA512withRSA, Class:
sun.security.rsa.RSASignature\$SHA512withRSA

Aliases: 1.2.840.113549.1.1.13

Attributes:

SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey

Provider: SunEC, Version: 17.0, Class: sun.security.ec.SunEC

Description: Sun Elliptic Curve provider

Services (42):

Service: AlgorithmParameters, Algorithm: EC, Class: sun.security.util.ECParameters

Aliases: EllipticCurve

Attributes:

SupportedCurves: [secp256r1,NIST P-256,X9.62 prime256v1,1.2.840.10045.3.1.7]
[secp384r1,NIST P-384,1.3.132.0.34][secp521r1,NIST P-521,1.3.132.0.35]

ImplementedIn: Software

KeySize: 256

SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey

Service: KeyPairGenerator, Algorithm: XDH, Class:
sun.security.ec.XDHKeyPairGenerator

Attributes:

ImplementedIn: Software

Service: Signature, Algorithm: SHA1withECDSAinP1363Format, Class:
sun.security.ec.ECDSASignature\$SHA1inP1363Format

Service: KeyPairGenerator, Algorithm: X448, Class:
sun.security.ec.XDHKeyPairGenerator.X448

Aliases: 1.3.101.111

Attributes:

ImplementedIn: Software

Service: Signature, Algorithm: NONEwithECDSAinP1363Format, Class:
sun.security.ec.ECDSASignature\$RawinP1363Format

Service: KeyAgreement, Algorithm: X25519, Class:
sun.security.ec.XDHKeyAgreement.X25519

Aliases: 1.3.101.110

Attributes:

ImplementedIn: Software

Service: KeyPairGenerator, Algorithm: EdDSA, Class:
sun.security.ec.ed.EdDSAKeyPairGenerator

Attributes:

ImplementedIn: Software

Service: Signature, Algorithm: SHA1withECDSA, Class:
sun.security.ec.ECDSASignature\$SHA1

Aliases: 1.2.840.10045.4.1

Attributes:

ImplementedIn: Software

KeySize: 256

SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey

Service: Signature, Algorithm: SHA3-256withECDSAinP1363Format, Class:
sun.security.ec.ECDSASignature\$SHA3_256inP1363Format

Service: KeyFactory, Algorithm: X25519, Class:
sun.security.ec.XDHKeyFactory.X25519

Aliases: 1.3.101.110

Attributes:

ImplementedIn: Software

Service: KeyPairGenerator, Algorithm: Ed448, Class:
sun.security.ec.ed.EdDSAKeyPairGenerator.Ed448

Aliases: 1.3.101.113

Attributes:

ImplementedIn: Software

Service: Signature, Algorithm: SHA3-256withECDSA, Class:
sun.security.ec.ECDSASignature\$SHA3_256

Aliases: 2.16.840.1.101.3.4.3.10

Attributes:

ImplementedIn: Software

KeySize: 256

SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey

Service: Signature, Algorithm: SHA3-512withECDSA, Class:
sun.security.ec.ECDSASignature\$SHA3_512

Aliases: 2.16.840.1.101.3.4.3.12

Attributes:

ImplementedIn: Software

KeySize: 256

SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey

Service: Signature, Algorithm: NONEwithECDSA, Class:
sun.security.ec.ECDSASignature\$Raw

Attributes:

ImplementedIn: Software

KeySize: 256

SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey

Service: Signature, Algorithm: SHA3-384withECDSAinP1363Format, Class:
sun.security.ec.ECDSASignature\$SHA3_384inP1363Format

Service: Signature, Algorithm: SHA256withECDSA, Class:
sun.security.ec.ECDSASignature\$SHA256

Aliases: OID.1.2.840.10045.4.3.2

Attributes:

ImplementedIn: Software

KeySize: 256

SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey

Service: KeyFactory, Algorithm: XDH, Class: sun.security.ec.XDHKeyFactory

Attributes:

ImplementedIn: Software
Service: Signature, Algorithm: SHA3-224withECDSAinP1363Format, Class:
sun.security.ec.ECDSASignature\$SHA3_224inP1363Format
Service: Signature, Algorithm: SHA512withECDSA, Class:
sun.security.ec.ECDSASignature\$SHA512
Aliases: OID.1.2.840.10045.4.3.4
Attributes:
ImplementedIn: Software
KeySize: 256
SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey
Service: Signature, Algorithm: SHA3-224withECDSA, Class:
sun.security.ec.ECDSASignature\$SHA3_224
Aliases: OID.2.16.840.1.101.3.4.3.9
Attributes:
ImplementedIn: Software
KeySize: 256
SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey
Service: KeyAgreement, Algorithm: XDH, Class: sun.security.ec.XDHKeyAgreement
Attributes:
ImplementedIn: Software
Service: Signature, Algorithm: EdDSA, Class: sun.security.ec.ed.EdDSASignature
Attributes:
ImplementedIn: Software
Service: KeyFactory, Algorithm: EdDSA, Class: sun.security.ec.ed.EdDSAKeyFactory
Attributes:
ImplementedIn: Software
Service: Signature, Algorithm: SHA256withECDSAinP1363Format, Class:
sun.security.ec.ECDSASignature\$SHA256inP1363Format
Service: Signature, Algorithm: Ed25519, Class:
sun.security.ec.ed.EdDSASignature.Ed25519
Aliases: 1.3.101.112
Attributes:
ImplementedIn: Software
Service: Signature, Algorithm: SHA3-512withECDSAinP1363Format, Class:
sun.security.ec.ECDSASignature\$SHA3_512inP1363Format
Service: Signature, Algorithm: Ed448, Class:
sun.security.ec.ed.EdDSASignature.Ed448
Aliases: 1.3.101.113
Attributes:
ImplementedIn: Software
Service: KeyFactory, Algorithm: Ed448, Class:
sun.security.ec.ed.EdDSAKeyFactory.Ed448
Aliases: 1.3.101.113
Attributes:
ImplementedIn: Software

Service: KeyFactory, Algorithm: Ed25519, Class:
sun.security.ec.ed.EdDSAKeyFactory.Ed25519
Aliases: 1.3.101.112
Attributes:
ImplementedIn: Software

Service: KeyPairGenerator, Algorithm: Ed25519, Class:
sun.security.ec.ed.EdDSAKeyPairGenerator.Ed25519
Aliases: 1.3.101.112
Attributes:
ImplementedIn: Software

Service: KeyPairGenerator, Algorithm: X25519, Class:
sun.security.ec.XDHKeyPairGenerator.X25519
Aliases: 1.3.101.110
Attributes:
ImplementedIn: Software

Service: Signature, Algorithm: SHA3-384withECDSA, Class:
sun.security.ec.ECDSASignature\$SHA3_384
Aliases: 2.16.840.1.101.3.4.3.11
Attributes:
ImplementedIn: Software
KeySize: 256
SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey

Service: Signature, Algorithm: SHA224withECDSA, Class:
sun.security.ec.ECDSASignature\$SHA224
Aliases: OID.1.2.840.10045.4.3.1
Attributes:
ImplementedIn: Software
KeySize: 256
SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey

Service: KeyPairGenerator, Algorithm: EC, Class:
sun.security.ec.ECKeyPairGenerator
Aliases: EllipticCurve
Attributes:
ImplementedIn: Software
KeySize: 256
SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey

Service: KeyAgreement, Algorithm: X448, Class:
sun.security.ec.XDHKeyAgreement.X448
Aliases: 1.3.101.111
Attributes:
ImplementedIn: Software

Service: Signature, Algorithm: SHA384withECDSAinP1363Format, Class:
sun.security.ec.ECDSASignature\$SHA384inP1363Format
Service: KeyFactory, Algorithm: X448, Class: sun.security.ec.XDHKeyFactory.X448

Aliases: 1.3.101.111
Attributes:
ImplementedIn: Software
Service: KeyAgreement, Algorithm: ECDH, Class:
sun.security.ec.ECDHKeyAgreement
Attributes:
ImplementedIn: Software
KeySize: 256
SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey
Service: Signature, Algorithm: SHA224withECDSAinP1363Format, Class:
sun.security.ec.ECDSASignature\$SHA224inP1363Format
Service: Signature, Algorithm: SHA384withECDSA, Class:
sun.security.ec.ECDSASignature\$SHA384
Aliases: OID.1.2.840.10045.4.3.3
Attributes:
ImplementedIn: Software
KeySize: 256
SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey
Service: KeyFactory, Algorithm: EC, Class: sun.security.ec.ECKeyFactory
Aliases: EllipticCurve
Attributes:
ImplementedIn: Software
KeySize: 256
SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey
Service: Signature, Algorithm: SHA512withECDSAinP1363Format, Class:
sun.security.ec.ECDSASignature\$SHA512inP1363Format

Provider: SunJSSE, Version: 17.0, Class: sun.security.ssl.SunJSSE
Description: Sun JSSE provider(PKCS12, SunX509/PKIX key/trust factories, SSLv3/
TLSv1/TLSv1.1/TLSv1.2/TLSv1.3/DTLSv1.0/DTLSv1.2)
Services (15):
Service: Signature, Algorithm: MD5andSHA1withRSA, Class:
sun.security.ssl.RSASignature
Service: SSLContext, Algorithm: Default, Class:
sun.security.ssl.SSLContextImpl\$DefaultSSLContext
Service: KeyManagerFactory, Algorithm: SunX509, Class:
sun.security.ssl.KeyManagerFactoryImpl\$SunX509
Service: TrustManagerFactory, Algorithm: SunX509, Class:
sun.security.ssl.TrustManagerFactoryImpl\$SimpleFactory
Service: KeyStore, Algorithm: PKCS12, Class: sun.security.pkcs12.PKCS12KeyStore
Service: SSLContext, Algorithm: TLS, Class:
sun.security.ssl.SSLContextImpl\$TLSContext
Aliases: SSL
Service: SSLContext, Algorithm: DTLSv1.2, Class:

sun.security.ssl.SSLContextImpl\$DTLS12Context
Service: SSLContext, Algorithm: DTLS, Class:
sun.security.ssl.SSLContextImpl\$DTLSContext
Service: SSLContext, Algorithm: DTLSv1.0, Class:
sun.security.ssl.SSLContextImpl\$DTLS10Context
Service: SSLContext, Algorithm: TLSv1.3, Class:
sun.security.ssl.SSLContextImpl\$TLS13Context
Service: SSLContext, Algorithm: TLSv1, Class:
sun.security.ssl.SSLContextImpl\$TLS10Context
Aliases: SSLv3
Service: SSLContext, Algorithm: TLSv1.2, Class:
sun.security.ssl.SSLContextImpl\$TLS12Context
Service: SSLContext, Algorithm: TLSv1.1, Class:
sun.security.ssl.SSLContextImpl\$TLS11Context
Service: KeyManagerFactory, Algorithm: NewSunX509, Class:
sun.security.ssl.KeyManagerFactoryImpl\$X509
Aliases: PKIX
Service: TrustManagerFactory, Algorithm: PKIX, Class:
sun.security.ssl.TrustManagerFactoryImpl\$PKIXFactory
Aliases: X509

Provider: SunJCE, Version: 17.0, Class: com.sun.crypto.provider.SunJCE
Description: SunJCE Provider (implements RSA, DES, Triple DES, AES, Blowfish, ARCFOUR, RC2, PBE, Diffie-Hellman, HMAC, ChaCha20)
Services (161):
Service: SecretKeyFactory, Algorithm: PBEWithHmacSHA384AndAES_128, Class: com.sun.crypto.provider.PBEKeyFactory\$PBEWithHmacSHA384AndAES_128
Service: AlgorithmParameters, Algorithm: DESede, Class: com.sun.crypto.provider.DESedeParameters
Aliases: TripleDES
Service: AlgorithmParameters, Algorithm: DES, Class: com.sun.crypto.provider.DESParameters
Service: AlgorithmParameters, Algorithm: Blowfish, Class: com.sun.crypto.provider.BlowfishParameters
Service: Mac, Algorithm: PBEWithHmacSHA512, Class: com.sun.crypto.provider.PBMAC1Core\$HmacSHA512
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: ChaCha20, Class: com.sun.crypto.provider.ChaCha20Cipher\$ChaCha20Only
Attributes:
SupportedKeyFormats: RAW
Service: AlgorithmParameterGenerator, Algorithm: DiffieHellman, Class: com.sun.crypto.provider.DHParameterGenerator
Aliases: DH
Service: KeyGenerator, Algorithm: HmacSHA3-256, Class: com.sun.crypto.provider.KeyGeneratorCore\$HmacKG\$SHA3_256

Aliases: OID.2.16.840.1.101.3.4.2.14
Service: SecretKeyFactory, Algorithm: PBES2Parameters\$HmacSHA1AndAES_256, Class:
com.sun.crypto.provider.PBEKeyFactory\$PBES2Parameters\$HmacSHA1AndAES_256
Service: KeyGenerator, Algorithm: DES, Class:
com.sun.crypto.provider.DESKeyGenerator
Service: Cipher, Algorithm: AES/GCM/NoPadding, Class:
com.sun.crypto.provider.GaloisCounterMode\$AESGCM
Attributes:
SupportedKeyFormats: RAW
SupportedModes: GCM
Service: AlgorithmParameters, Algorithm: PBES2Parameters\$HmacSHA384AndAES_256,
Class: com.sun.crypto.provider.PBES2Parameters\$HmacSHA384AndAES_256
Service: KeyGenerator, Algorithm: DESede, Class:
com.sun.crypto.provider.DESedeKeyGenerator
Aliases: TripleDES
Service: SecretKeyFactory, Algorithm: PBKDF2WithHmacSHA224, Class:
com.sun.crypto.provider.PBKDF2Core\$HmacSHA224
Service: Cipher, Algorithm: AES_192/OFB/NoPadding, Class:
com.sun.crypto.provider.AESCipher\$AES192_OFB_NoPadding
Aliases: OID.2.16.840.1.101.3.4.1.23
Attributes:
SupportedKeyFormats: RAW
Service: SecretKeyFactory, Algorithm: PBKDF2WithHmacSHA384, Class:
com.sun.crypto.provider.PBKDF2Core\$HmacSHA384
Service: Mac, Algorithm: HmacSHA1, Class: com.sun.crypto.provider.HmacSHA1
Aliases: OID.1.2.840.113549.2.7
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: PBES2Parameters\$HmacSHA1AndAES_128, Class:
com.sun.crypto.provider.PBEWithMD5AndDESCipher
Aliases: OID.1.2.840.113549.1.5.3
Service: Cipher, Algorithm: AES_128/OFB/NoPadding, Class:
com.sun.crypto.provider.AESCipher\$AES128_OFB_NoPadding
Aliases: OID.2.16.840.1.101.3.4.1.3
Attributes:
SupportedKeyFormats: RAW
Service: SecretKeyFactory, Algorithm: DESede, Class:
com.sun.crypto.provider.DESedeKeyFactory
Aliases: TripleDES
Service: AlgorithmParameters, Algorithm: PBES2Parameters\$HmacSHA224AndAES_128,
Class: com.sun.crypto.provider.PBES2Parameters\$HmacSHA224AndAES_128
Service: KeyGenerator, Algorithm: SunTlsKeyMaterial, Class:
com.sun.crypto.provider.TlsKeyMaterialGenerator
Aliases: SunTls12KeyMaterial
Service: AlgorithmParameters, Algorithm: OAEP, Class:
com.sun.crypto.provider.OAEPParameters
Service: AlgorithmParameters, Algorithm: RC2, Class:

com.sun.crypto.provider.RC2Parameters
Service: Mac, Algorithm: HmacPBESHA224, Class:
com.sun.crypto.provider.HmacPKCS12PBECore\$HmacPKCS12PBE_SHA224
Attributes:
SupportedKeyFormats: RAW
Service: Mac, Algorithm: HmacPBESHA384, Class:
com.sun.crypto.provider.HmacPKCS12PBECore\$HmacPKCS12PBE_SHA384
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: AES_256/GCM/NoPadding, Class:
com.sun.crypto.provider.GaloisCounterMode\$AES256
Aliases: OID.2.16.840.1.101.3.4.1.46
Attributes:
SupportedKeyFormats: RAW
SupportedModes: GCM
Service: Mac, Algorithm: HmacSHA512/224, Class:
com.sun.crypto.provider.HmacCore\$HmacSHA512_224
Aliases: OID.1.2.840.113549.2.12
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: AES/KW/NoPadding, Class:
com.sun.crypto.provider.KeyWrapCipher\$AES_KW_NoPadding
Aliases: AESWrap
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: AES, Class: com.sun.crypto.provider.AESCipher\$General
Aliases: OID.2.16.840.1.101.3.4.1
Attributes:
SupportedKeyFormats: RAW
SupportedPaddings: NOPADDING|PKCS5PADDING|ISO10126PADDING
SupportedModes: ECB|CBC|PCBC|CTR|CTS|CFB|OFB|CFB8|CFB16|CFB24|
CFB32|CFB40|CFB48|CFB56|CFB64|OFB8|OFB16|OFB24|OFB32|OFB40|OFB48|
OFB56|OFB64|CFB72|CFB80|CFB88|CFB96|CFB104|CFB112|CFB120|CFB128|
OFB72|OFB80|OFB88|OFB96|OFB104|OFB112|OFB120|OFB128
Service: KeyGenerator, Algorithm: RC2, Class:
com.sun.crypto.provider.KeyGeneratorCore\$RC2KeyGenerator
Service: Mac, Algorithm: HmacSHA512, Class:
com.sun.crypto.provider.HmacCore\$HmacSHA512
Aliases: OID.1.2.840.113549.2.11
Attributes:
SupportedKeyFormats: RAW
Service: Mac, Algorithm: HmacPBESHA512/224, Class:
com.sun.crypto.provider.HmacPKCS12PBECore\$HmacPKCS12PBE_SHA512_224
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: PBESWithHmacSHA224AndAES_256, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA224AndAES_256

Service: AlgorithmParameters, Algorithm: PBES2Parameters\$HmacSHA1AndAES_256, Class:
com.sun.crypto.provider.PBES2Parameters\$HmacSHA1AndAES_256

Service: KeyStore, Algorithm: JCEKS, Class: com.sun.crypto.provider.JceKeyStore

Service: Mac, Algorithm: PBES2Parameters\$HmacSHA256, Class:
com.sun.crypto.provider.PBES2Parameters\$HmacSHA256

Attributes:

SupportedKeyFormats: RAW

Service: Cipher, Algorithm: PBES2Core\$HmacSHA512AndAES_128, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA512AndAES_128

Service: Cipher, Algorithm: DESedeWrap, Class:
com.sun.crypto.provider.DESedeWrapCipher

Attributes:

SupportedPaddings: NOPADDING

SupportedKeyFormats: RAW

SupportedModes: CBC

Service: SecretKeyFactory, Algorithm: PBES2Core\$HmacSHA1AndRC4_40, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA1AndRC4_40

Aliases: 1.2.840.113549.1.12.1.2

Service: Cipher, Algorithm: PBES2Core\$HmacSHA256AndAES_128, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA256AndAES_128

Service: Cipher, Algorithm: AES/KW/PKCS5Padding, Class:
com.sun.crypto.provider.KeyWrapCipher\$AES_KW_PKCS5Padding

Attributes:

SupportedKeyFormats: RAW

Service: SecretKeyFactory, Algorithm: PBES2Core\$HmacSHA384AndAES_256, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA384AndAES_256

Service: AlgorithmParameters, Algorithm: PBES2Core\$HmacSHA1AndRC4_40, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA1AndRC4_40

Aliases: 1.2.840.113549.1.12.1.2

Service: Cipher, Algorithm: PBES2Core\$MD5AndTripleDES, Class:
com.sun.crypto.provider.PBES2Core\$MD5AndTripleDESCipher

Service: Cipher, Algorithm: AES_192/GCM/NoPadding, Class:
com.sun.crypto.provider.GaloisCounterMode\$AES192

Aliases: OID.2.16.840.1.101.3.4.1.26

Attributes:

SupportedKeyFormats: RAW

SupportedModes: GCM

Service: Cipher, Algorithm: PBES2Core\$SHA1AndDESede, Class:
com.sun.crypto.provider.PBES2Core\$SHA1AndDESedeCipher

Aliases: 1.2.840.113549.1.12.1.3

Service: SecretKeyFactory, Algorithm: PBES2Core\$MD5AndDES, Class:
com.sun.crypto.provider.PBES2Core\$MD5AndDESCipher

Aliases: OID.1.2.840.113549.1.5.3

Service: Cipher, Algorithm: AES_128/GCM/NoPadding, Class:
com.sun.crypto.provider.GaloisCounterMode\$AES128

Aliases: OID.2.16.840.1.101.3.4.1.6

Attributes:

SupportedKeyFormats: RAW
SupportedModes: GCM
Service: KeyGenerator, Algorithm: HmacSHA3-224, Class:
com.sun.crypto.provider.KeyGeneratorCore\$HmacKG\$SHA3_224
Aliases: OID.2.16.840.1.101.3.4.2.13
Service: KeyPairGenerator, Algorithm: DiffieHellman, Class:
com.sun.crypto.provider.DHKeyPairGenerator
Aliases: DH
Service: Cipher, Algorithm: AES_128/KW/PKCS5Padding, Class:
com.sun.crypto.provider.KeyWrapCipher\$AES128_KW_PKCS5Padding
Attributes:
SupportedKeyFormats: RAW
Service: KeyGenerator, Algorithm: HmacSHA3-384, Class:
com.sun.crypto.provider.KeyGeneratorCore\$HmacKG\$SHA3_384
Aliases: OID.2.16.840.1.101.3.4.2.15
Service: KeyGenerator, Algorithm: SunTlsRsaPremasterSecret, Class:
com.sun.crypto.provider.TlsRsaPremasterSecretGenerator
Aliases: SunTls12RsaPremasterSecret
Service: Cipher, Algorithm: AES_256/CFB/NoPadding, Class:
com.sun.crypto.provider.AESCipher\$AES256_CFB_NoPadding
Aliases: OID.2.16.840.1.101.3.4.1.44
Attributes:
SupportedKeyFormats: RAW
Service: SecretKeyFactory, Algorithm: DES, Class:
com.sun.crypto.provider.DESKeyFactory
Service: KeyGenerator, Algorithm: ChaCha20, Class:
com.sun.crypto.provider.KeyGeneratorCore\$ChaCha20KeyGenerator
Service: SecretKeyFactory, Algorithm: PBES2Parameters\$HmacSHA224AndAES_256, Class:
com.sun.crypto.provider.PBEKeyFactory\$PBES2Parameters\$HmacSHA224AndAES_256
Aliases: 1.2.840.113549.1.12.1.5
Service: Cipher, Algorithm: AES_256/KW/NoPadding, Class:
com.sun.crypto.provider.KeyWrapCipher\$AES256_KW_NoPadding
Aliases: OID.2.16.840.1.101.3.4.1.45
Attributes:
SupportedKeyFormats: RAW
Service: AlgorithmParameters, Algorithm: PBES2Parameters\$HmacSHA224AndAES_256,
Class: com.sun.crypto.provider.PBES2Parameters\$HmacSHA224AndAES_256
Service: KeyGenerator, Algorithm: HmacSHA512, Class:
com.sun.crypto.provider.KeyGeneratorCore\$HmacKG\$SHA512
Aliases: OID.1.2.840.113549.2.11
Service: SecretKeyFactory, Algorithm: PBES2Parameters\$HmacSHA224AndAES_128, Class:
com.sun.crypto.provider.PBEKeyFactory\$PBES2Parameters\$HmacSHA224AndAES_128
Service: Cipher, Algorithm: PBES2Parameters\$HmacSHA224AndAES_128, Class:
com.sun.crypto.provider.PBES2Parameters\$HmacSHA224AndAES_128
Aliases: 1.2.840.113549.1.12.1.5
Service: Mac, Algorithm: HmacSHA256, Class:
com.sun.crypto.provider.HmacCore\$HmacSHA256

Aliases: OID.1.2.840.113549.2.9
Attributes:
SupportedKeyFormats: RAW
Service: SecretKeyFactory, Algorithm: PBES2Parameters, Class:
com.sun.crypto.provider.PBES2Parameters\$PBES2Parameters
Service: Cipher, Algorithm: PBES2Parameters, Class:
com.sun.crypto.provider.PBES2Parameters\$PBES2Parameters
Aliases: 1.2.840.113549.1.12.1.1
Service: Mac, Algorithm: HmacMD5, Class: com.sun.crypto.provider.HmacMD5
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: RSA, Class: com.sun.crypto.provider.RSACipher
Attributes:
SupportedModes: ECB
SupportedKeyClasses: java.security.interfaces.RSAPublicKey
java.security.interfaces.RSAPrivateKey
Service: Mac, Algorithm: SslMacMD5, Class:

com.sun.crypto.provider.SslMacCore\$SslMacMD5
Attributes:
SupportedKeyFormats: RAW
Service: Mac, Algorithm: PBEWithHmacSHA224, Class:
com.sun.crypto.provider.PBMAC1Core\$HmacSHA224
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: AES/KWP/NoPadding, Class:
com.sun.crypto.provider.KeyWrapCipher\$AES_KWP_NoPadding
Aliases: AESWrapPad
Attributes:
SupportedKeyFormats: RAW
Service: Mac, Algorithm: PBEWithHmacSHA384, Class:
com.sun.crypto.provider.PBMAC1Core\$HmacSHA384
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: DESede, Class: com.sun.crypto.provider.DESedeCipher
Aliases: TripleDES
Attributes:
SupportedKeyFormats: RAW
SupportedPaddings: NOPADDINGIPKCS5PADDINGIISO10126PADDING
SupportedModes: ECBICBCIPCBCICTRICTSICFBIOFBICFB8ICFB16ICFB24I
CFB32ICFB40ICFB48ICFB56ICFB64IOFB8IOFB16IOFB24IOFB32IOFB40IOFB48I
OFB56IOFB64
Service: KeyGenerator, Algorithm: HmacSHA512/256, Class:
com.sun.crypto.provider.KeyGeneratorCore\$HmacKG\$SHA512_256
Aliases: OID.1.2.840.113549.2.13
Service: AlgorithmParameters, Algorithm: ChaCha20-Poly1305, Class:
com.sun.crypto.provider.ChaCha20Poly1305Parameters
Aliases: OID.1.2.840.113549.1.9.16.3.18
Service: Cipher, Algorithm: PBEWithHmacSHA512AndAES_256, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA512AndAES_256
Service: Cipher, Algorithm: PBEWithHmacSHA256AndAES_256, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA256AndAES_256
Service: AlgorithmParameters, Algorithm: PBEWithHmacSHA512AndAES_128,
Class: com.sun.crypto.provider.PBES2Parameters\$HmacSHA512AndAES_128
Service: Mac, Algorithm: HmacPBESHA1, Class:
com.sun.crypto.provider.HmacPKCS12PBECore\$HmacPKCS12PBE_SHA1
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: AES_192/KW/PKCS5Padding, Class:
com.sun.crypto.provider.KeyWrapCipher\$AES192_KW_PKCS5Padding
Attributes:
SupportedKeyFormats: RAW
Service: AlgorithmParameters, Algorithm: PBEWithMD5AndTripleDES, Class:
com.sun.crypto.provider.PBEPParameters
Service: AlgorithmParameters, Algorithm: AES, Class:

com.sun.crypto.provider.AESParameters
Aliases: OID.2.16.840.1.101.3.4.1
Service: Cipher, Algorithm: AES_256/KWP/NoPadding, Class:
com.sun.crypto.provider.KeyWrapCipher\$AES256_KWP_NoPadding
Aliases: OID.2.16.840.1.101.3.4.1.48
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: AES_256/KW/PKCS5Padding, Class:
com.sun.crypto.provider.KeyWrapCipher\$AES256_KW_PKCS5Padding
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: AES_192/KW/NoPadding, Class:
com.sun.crypto.provider.KeyWrapCipher\$AES192_KW_NoPadding
Aliases: OID.2.16.840.1.101.3.4.1.25
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: PBEWithHmacSHA384AndAES_128, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA384AndAES_128
Service: KeyGenerator, Algorithm: HmacSHA256, Class:
com.sun.crypto.provider.KeyGeneratorCore\$HmacKG\$SHA256
Aliases: OID.1.2.840.113549.2.9
Service: KeyGenerator, Algorithm: AES, Class:
com.sun.crypto.provider.AESKeyGenerator
Aliases: OID.2.16.840.1.101.3.4.1
Service: Cipher, Algorithm: ChaCha20-Poly1305, Class:
com.sun.crypto.provider.ChaCha20Cipher\$ChaCha20Poly1305
Aliases: OID.1.2.840.113549.1.9.16.3.18
Attributes:
SupportedKeyFormats: RAW
Service: Mac, Algorithm: HmacSHA3-256, Class:
com.sun.crypto.provider.HmacCore\$HmacSHA3_256
Aliases: OID.2.16.840.1.101.3.4.2.14
Attributes:
SupportedKeyFormats: RAW
Service: Mac, Algorithm: PBEWithHmacSHA1, Class:
com.sun.crypto.provider.PBMAC1Core\$HmacSHA1
Attributes:
SupportedKeyFormats: RAW
Service: Mac, Algorithm: HmacSHA224, Class:
com.sun.crypto.provider.HmacCore\$HmacSHA224
Aliases: OID.1.2.840.113549.2.8
Attributes:
SupportedKeyFormats: RAW
Service: SecretKeyFactory, Algorithm: PBEWithHmacSHA224AndAES_256, Class:
com.sun.crypto.provider.PBEKeyFactory\$PBEWithHmacSHA224AndAES_256
Service: Mac, Algorithm: HmacSHA384, Class:
com.sun.crypto.provider.HmacCore\$HmacSHA384

Aliases: OID.1.2.840.113549.2.10
Attributes:
SupportedKeyFormats: RAW
Service: SecretKeyFactory, Algorithm: PBKDF2WithHmacSHA1, Class:
com.sun.crypto.provider.PBKDF2Core\$HmacSHA1
Aliases: 1.2.840.113549.1.5.12
Service: AlgorithmParameters, Algorithm: PBES2, Class:
com.sun.crypto.provider.PBES2Parameters\$General
Aliases: OID.1.2.840.113549.1.5.13
Service: SecretKeyFactory, Algorithm: PBKDF2WithHmacSHA512, Class:
com.sun.crypto.provider.PBKDF2Core\$HmacSHA512
Service: AlgorithmParameters, Algorithm: GCM, Class:
com.sun.crypto.provider.GCMParameters
Service: Cipher, Algorithm: DES, Class: com.sun.crypto.provider.DESCipher
Attributes:
SupportedPaddings: NOPADDING|PKCS5PADDING|ISO10126PADDING
SupportedKeyFormats: RAW
SupportedModes: ECB|CBC|PCBC|CTR|CTS|CFB|IOFB|CFB8|CFB16|CFB24|
CFB32|CFB40|CFB48|CFB56|CFB64|IOFB8|IOFB16|IOFB24|IOFB32|IOFB40|IOFB48|
IOFB56|IOFB64
Service: Cipher, Algorithm: PBEWithHmacSHA1AndAES_128, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA1AndAES_128
Service: SecretKeyFactory, Algorithm: PBEWithHmacSHA512AndAES_128, Class:
com.sun.crypto.provider.PBEKeyFactory\$PBEWithHmacSHA512AndAES_128
Service: AlgorithmParameters, Algorithm: PBEWithHmacSHA256AndAES_256,
Class: com.sun.crypto.provider.PBES2Parameters\$HmacSHA256AndAES_256
Service: Cipher, Algorithm: Blowfish, Class: com.sun.crypto.provider.BlowfishCipher
Attributes:
SupportedKeyFormats: RAW
SupportedPaddings: NOPADDING|PKCS5PADDING|ISO10126PADDING
SupportedModes: ECB|CBC|PCBC|CTR|CTS|CFB|IOFB|CFB8|CFB16|CFB24|
CFB32|CFB40|CFB48|CFB56|CFB64|IOFB8|IOFB16|IOFB24|IOFB32|IOFB40|IOFB48|
IOFB56|IOFB64
Service: SecretKeyFactory, Algorithm: PBEWithHmacSHA256AndAES_128, Class:
com.sun.crypto.provider.PBEKeyFactory\$PBEWithHmacSHA256AndAES_128
Service: Mac, Algorithm: HmacPBESHA512, Class:
com.sun.crypto.provider.HmacPKCS12PBECore\$HmacPKCS12PBE_SHA512
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: AES_192/KWP/NoPadding, Class:
com.sun.crypto.provider.KeyWrapCipher\$AES192_KWP_NoPadding
Aliases: OID.2.16.840.1.101.3.4.1.28
Attributes:
SupportedKeyFormats: RAW
Service: KeyGenerator, Algorithm: HmacSHA1, Class:
com.sun.crypto.provider.HmacSHA1KeyGenerator
Aliases: OID.1.2.840.113549.2.7

Service: KeyGenerator, Algorithm: SunTlsMasterSecret, Class:
com.sun.crypto.provider.TlsMasterSecretGenerator
Aliases: SunTlsExtendedMasterSecret
Service: KeyGenerator, Algorithm: SunTlsPrf, Class:
com.sun.crypto.provider.TlsPrfGenerator\$V10
Service: SecretKeyFactory, Algorithm: PBESWithSHA1AndDESede, Class:
com.sun.crypto.provider.PBEKeyFactory\$PBESWithSHA1AndDESede
Aliases: 1.2.840.113549.1.12.1.3
Service: Cipher, Algorithm: AES_128/KWP/NoPadding, Class:
com.sun.crypto.provider.KeyWrapCipher\$AES128_KWP_NoPadding
Aliases: OID.2.16.840.1.101.3.4.1.8
Attributes:
SupportedKeyFormats: RAW
Service: KeyGenerator, Algorithm: ARCFOUR, Class:
com.sun.crypto.provider.KeyGeneratorCore\$ARCFOURKeyGenerator
Aliases: RC4
Service: AlgorithmParameters, Algorithm: PBESWithSHA1AndDESede, Class:
com.sun.crypto.provider.PBEParameters
Aliases: 1.2.840.113549.1.12.1.3
Service: Cipher, Algorithm: AES_256/ECB/NoPadding, Class:
com.sun.crypto.provider.AESCipher\$AES256_ECB_NoPadding
Aliases: OID.2.16.840.1.101.3.4.1.41
Attributes:
SupportedKeyFormats: RAW
Service: KeyGenerator, Algorithm: HmacSHA512/224, Class:
com.sun.crypto.provider.KeyGeneratorCore\$HmacKG\$SHA512_224
Aliases: OID.1.2.840.113549.2.12
Service: AlgorithmParameters, Algorithm: PBESWithHmacSHA512AndAES_256,
Class: com.sun.crypto.provider.PBES2Parameters\$HmacSHA512AndAES_256
Service: Cipher, Algorithm: RC2, Class: com.sun.crypto.provider.RC2Cipher
Attributes:
SupportedKeyFormats: RAW
SupportedPaddings: NOPADDING|PKCS5PADDING|ISO10126PADDING
SupportedModes: ECB|CBC|PCBC|CTR|CTS|CFB|OFB|CFB8|CFB16|CFB24|
CFB32|CFB40|CFB48|CFB56|CFB64|OFB8|OFB16|OFB24|OFB32|OFB40|OFB48|
OFB56|OFB64
Service: Cipher, Algorithm: AES_192/ECB/NoPadding, Class:
com.sun.crypto.provider.AESCipher\$AES192_ECB_NoPadding
Aliases: OID.2.16.840.1.101.3.4.1.21
Attributes:
SupportedKeyFormats: RAW
Service: KeyGenerator, Algorithm: SunTls12Prf, Class:
com.sun.crypto.provider.TlsPrfGenerator\$V12
Service: SecretKeyFactory, Algorithm: PBESWithSHA1AndRC4_128, Class:
com.sun.crypto.provider.PBEKeyFactory\$PBESWithSHA1AndRC4_128
Aliases: 1.2.840.113549.1.12.1.1
Service: Cipher, Algorithm: AES_128/ECB/NoPadding, Class:

com.sun.crypto.provider.AESCipher\$AES128_ECB_NoPadding
Aliases: OID.2.16.840.1.101.3.4.1.1
Attributes:
SupportedKeyFormats: RAW
Service: SecretKeyFactory, Algorithm: PBES2Core\$HmacSHA1AndRC2_40, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA1AndRC2_40
Aliases: 1.2.840.113549.1.12.1.6
Service: KeyGenerator, Algorithm: HmacMD5, Class:
com.sun.crypto.provider.HmacMD5KeyGenerator
Service: Cipher, Algorithm: PBES2Core\$HmacSHA384AndAES_256, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA384AndAES_256
Service: SecretKeyFactory, Algorithm: PBES2Core\$HmacSHA1AndAES_128, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA1AndAES_128
Service: KeyGenerator, Algorithm: HmacSHA224, Class:
com.sun.crypto.provider.KeyGeneratorCore\$HmacKG\$SHA224
Aliases: OID.1.2.840.113549.2.8
Service: Cipher, Algorithm: AES_256/CBC/NoPadding, Class:
com.sun.crypto.provider.AESCipher\$AES256_CBC_NoPadding
Aliases: OID.2.16.840.1.101.3.4.1.42
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: PBES2Core\$HmacSHA1AndRC4_128, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA1AndRC4_128
Aliases: 1.2.840.113549.1.12.1.1
Service: AlgorithmParameters, Algorithm: PBES2Core\$HmacSHA1AndRC2_40, Class:
com.sun.crypto.provider.PBES2Parameters
Aliases: 1.2.840.113549.1.12.1.6
Service: KeyGenerator, Algorithm: HmacSHA384, Class:
com.sun.crypto.provider.KeyGeneratorCore\$HmacKG\$SHA384
Aliases: OID.1.2.840.113549.2.10
Service: AlgorithmParameters, Algorithm: PBES2Parameters\$HmacSHA384AndAES_128,
Class: com.sun.crypto.provider.PBES2Parameters\$HmacSHA384AndAES_128
Service: KeyFactory, Algorithm: DiffieHellman, Class:
com.sun.crypto.provider.DHKeyFactory
Aliases: DH
Service: Cipher, Algorithm: PBES2Core\$HmacSHA1AndRC4_40, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA1AndRC4_40
Aliases: 1.2.840.113549.1.12.1.2
Service: AlgorithmParameters, Algorithm: PBES2Parameters\$HmacMD5AndDES, Class:
com.sun.crypto.provider.PBES2Parameters
Aliases: OID.1.2.840.113549.1.5.3
Service: SecretKeyFactory, Algorithm: PBKDF2WithHmacSHA256, Class:
com.sun.crypto.provider.PBKDF2Core\$HmacSHA256
Service: Cipher, Algorithm: AES_128/KW/NoPadding, Class:
com.sun.crypto.provider.KeyWrapCipher\$AES128_KW_NoPadding
Aliases: AESWrap_128
Attributes:

SupportedKeyFormats: RAW
Service: Mac, Algorithm: HmacSHA3-224, Class:
com.sun.crypto.provider.HmacCore\$HmacSHA3_224
Aliases: OID.2.16.840.1.101.3.4.2.13
Attributes:
SupportedKeyFormats: RAW
Service: Mac, Algorithm: HmacSHA3-384, Class:
com.sun.crypto.provider.HmacCore\$HmacSHA3_384
Aliases: OID.2.16.840.1.101.3.4.2.15
Attributes:
SupportedKeyFormats: RAW
Service: KeyGenerator, Algorithm: HmacSHA3-512, Class:
com.sun.crypto.provider.KeyGeneratorCore\$HmacKG\$SHA3_512
Aliases: OID.2.16.840.1.101.3.4.2.16
Service: Mac, Algorithm: HmacPBESHA256, Class:
com.sun.crypto.provider.HmacPKCS12PBECore\$HmacPKCS12PBE_SHA256
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: AES_192/CBC/NoPadding, Class:
com.sun.crypto.provider.AESCipher\$AES192_CBC_NoPadding
Aliases: OID.2.16.840.1.101.3.4.1.22
Attributes:
SupportedKeyFormats: RAW
Service: Mac, Algorithm: HmacSHA512/256, Class:
com.sun.crypto.provider.HmacCore\$HmacSHA512_256
Aliases: OID.1.2.840.113549.2.13
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: AES_128/CBC/NoPadding, Class:
com.sun.crypto.provider.AESCipher\$AES128_CBC_NoPadding
Aliases: OID.2.16.840.1.101.3.4.1.2
Attributes:
SupportedKeyFormats: RAW
Service: Cipher, Algorithm: PBES2Core\$HmacSHA1AndAES_256, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA1AndAES_256
Service: Cipher, Algorithm: ARCFOUR, Class:
com.sun.crypto.provider.ARCFOURCipher
Aliases: RC4
Attributes:
SupportedKeyFormats: RAW
SupportedPaddings: NOPADDING
SupportedModes: ECB
Service: SecretKeyFactory, Algorithm: PBES2Core\$HmacSHA1AndAES_256, Class:
com.sun.crypto.provider.PBEKeyFactory\$PBES2Core\$HmacSHA1AndAES_256
Service: Cipher, Algorithm: AES_256/OFB/NoPadding, Class:
com.sun.crypto.provider.AESCipher\$AES256_OFB_NoPadding
Aliases: OID.2.16.840.1.101.3.4.1.43

Attributes:

SupportedKeyFormats: RAW

Service: SecretKeyFactory, Algorithm: PBESWithHmacSHA256AndAES_256, Class:
com.sun.crypto.provider.PBEKeyFactory\$PBESWithHmacSHA256AndAES_256

Service: Cipher, Algorithm: PBES2Core\$HmacSHA224AndAES_128, Class:
com.sun.crypto.provider.PBES2Core\$HmacSHA224AndAES_128

Service: Mac, Algorithm: HmacPBESHA512/256, Class:
com.sun.crypto.provider.HmacPKCS12PBESCore\$HmacPKCS12PBE_SHA512_256

Attributes:

SupportedKeyFormats: RAW

Service: AlgorithmParameters, Algorithm: PBESWithHmacSHA1AndAES_128, Class:
com.sun.crypto.provider.PBES2Parameters\$HmacSHA1AndAES_128

Service: Mac, Algorithm: SslMacSHA1, Class:
com.sun.crypto.provider.SslMacCore\$SslMacSHA1

Attributes:

SupportedKeyFormats: RAW

Service: KeyAgreement, Algorithm: DiffieHellman, Class:
com.sun.crypto.provider.DHKeyAgreement

Aliases: DH

Attributes:

SupportedKeyClasses: javax.crypto.interfaces.DHPublicKey
javax.crypto.interfaces.DHPrivateKey

Service: AlgorithmParameters, Algorithm: PBESWithSHA1AndRC2_128, Class:
com.sun.crypto.provider.PBESParameters

Aliases: 1.2.840.113549.1.12.1.5

Service: KeyGenerator, Algorithm: Blowfish, Class:
com.sun.crypto.provider.BlowfishKeyGenerator

Provider: SunJGSS, Version: 17.0, Class: sun.security.jgss.SunProvider

Description: Sun (Kerberos v5, SPNEGO)

Services (2):

Service: GssApiMechanism, Algorithm: 1.3.6.1.5.5.2, Class:
sun.security.jgss.spnego.SpNegoMechFactory

Service: GssApiMechanism, Algorithm: 1.2.840.113554.1.2.2, Class:
sun.security.jgss.krb5.Krb5MechFactory

Provider: SunSASL, Version: 17.0, Class: com.sun.security.sasl.Provider

Description: Sun SASL provider(implements client mechanisms for: DIGEST-MD5,
EXTERNAL, PLAIN, CRAM-MD5, NTLM; server mechanisms for: DIGEST-MD5,
CRAM-MD5, NTLM)

Services (8):

Service: SaslClientFactory, Algorithm: PLAIN, Class:
com.sun.security.sasl.ClientFactoryImpl

Service: SaslServerFactory, Algorithm: CRAM-MD5, Class:
com.sun.security.sasl.ServerFactoryImpl

Service: SaslClientFactory, Algorithm: NTLM, Class:
com.sun.security.sasl.ntlm.FactoryImpl

Service: SaslClientFactory, Algorithm: EXTERNAL, Class:
com.sun.security.sasl.ClientFactoryImpl

Service: SaslServerFactory, Algorithm: NTLM, Class:
com.sun.security.sasl.ntlm.FactoryImpl

Service: SaslServerFactory, Algorithm: DIGEST-MD5, Class:
com.sun.security.sasl.digest.FactoryImpl

Service: SaslClientFactory, Algorithm: DIGEST-MD5, Class:
com.sun.security.sasl.digest.FactoryImpl

Service: SaslClientFactory, Algorithm: CRAM-MD5, Class:
com.sun.security.sasl.ClientFactoryImpl

Provider: XMLDSig, Version: 17.0, Class: org.jcp.xml.dsig.internal.dom.XMLDSigRI
Description: XMLDSig (DOM XMLSignatureFactory; DOM KeyInfoFactory; C14N 1.0,
C14N 1.1, Exclusive C14N, Base64, Enveloped, XPath, XPath2, XSLT
TransformServices)

Services (13):

Service: KeyInfoFactory, Algorithm: DOM, Class:
org.jcp.xml.dsig.internal.dom.DOMKeyInfoFactory

Service: TransformService, Algorithm: <http://www.w3.org/TR/1999/REC-xpath-19991116>, Class: org.jcp.xml.dsig.internal.dom.DOMXPathTransform

Aliases: XPATH

Attributes:

MechanismType: DOM

Service: TransformService, Algorithm: <http://www.w3.org/TR/2001/REC-xml-c14n-20010315#WithComments>, Class:

org.jcp.xml.dsig.internal.dom.DOMCanonicalXMLC14NMethod

Aliases: INCLUSIVE_WITH_COMMENTS

Attributes:

MechanismType: DOM

Service: TransformService, Algorithm: <http://www.w3.org/2000/09/xmlsig#base64>,
Class: org.jcp.xml.dsig.internal.dom.DOMBASE64Transform

Aliases: BASE64

Attributes:

MechanismType: DOM

Service: TransformService, Algorithm: <http://www.w3.org/2000/09/xmlsig#enveloped-signature>, Class: org.jcp.xml.dsig.internal.dom.DOMEEnvelopedTransform

Aliases: ENVELOPED

Attributes:

MechanismType: DOM

Service: TransformService, Algorithm: <http://www.w3.org/TR/2001/REC-xml-c14n-20010315>, Class: org.jcp.xml.dsig.internal.dom.DOMCanonicalXMLC14NMethod

Aliases: INCLUSIVE

Attributes:

MechanismType: DOM

Service: XMLSignatureFactory, Algorithm: DOM, Class:
org.jcp.xml.dsig.internal.dom.DOMXMLSignatureFactory

Service: TransformService, Algorithm: <http://www.w3.org/2001/10/xml-exc-c14n#>,

Class: org.jcp.xml.dsig.internal.dom.DOMExcC14NMethod

Aliases: EXCLUSIVE

Attributes:

MechanismType: DOM

Service: TransformService, Algorithm: <http://www.w3.org/2002/06/xmlldsig-filter2>,

Class: org.jcp.xml.dsig.internal.dom.DOMXPathFilter2Transform

Aliases: XPATH2

Attributes:

MechanismType: DOM

Service: TransformService, Algorithm: <http://www.w3.org/TR/1999/REC-xslt-19991116>,

Class: org.jcp.xml.dsig.internal.dom.DOMXSLTTransform

Aliases: XSLT

Attributes:

MechanismType: DOM

Service: TransformService, Algorithm: <http://www.w3.org/2006/12/xml-c14n11#WithComments>, Class:

org.jcp.xml.dsig.internal.dom.DOMCanonicalXMLC14N11Method

Attributes:

MechanismType: DOM

Service: TransformService, Algorithm: <http://www.w3.org/2006/12/xml-c14n11>, Class:

org.jcp.xml.dsig.internal.dom.DOMCanonicalXMLC14N11Method

Attributes:

MechanismType: DOM

Service: TransformService, Algorithm: <http://www.w3.org/2001/10/xml-exc-c14n#WithComments>, Class: org.jcp.xml.dsig.internal.dom.DOMExcC14NMethod

Aliases: EXCLUSIVE_WITH_COMMENTS

Attributes:

MechanismType: DOM

Provider: SunPCSC, Version: 17.0, Class: sun.security.smartcardio.SunPCSC

Description: Sun PC/SC provider

Services (1):

Service: TerminalFactory, Algorithm: PC/SC, Class:

sun.security.smartcardio.SunPCSC\$Factory

Provider: JdkLDAP, Version: 17.0, Class: sun.security.provider.certpath.Idap.JdkLDAP

Description: JdkLDAP Provider (implements LDAP CertStore)

Services (1):

Service: CertStore, Algorithm: LDAP, Class:

sun.security.provider.certpath.Idap.LDAPCertStore

Attributes:

ImplementedIn: Software

LDAPSchema: RFC2587

Provider: JdkSASL, Version: 17.0, Class: com.sun.security.sasl.gsskerb.JdkSASL

Description: JDK SASL provider(implements client and server mechanisms for GSSAPI)

Services (2):

Service: SaslClientFactory, Algorithm: GSSAPI, Class:
com.sun.security.sasl.gsskerb.FactoryImpl

Service: SaslServerFactory, Algorithm: GSSAPI, Class:
com.sun.security.sasl.gsskerb.FactoryImpl

Provider: Apple, Version: 17.0, Class: apple.security.AppleProvider

Description: Apple Provider

Services (1):

Service: KeyStore, Algorithm: KeychainStore, Class: apple.security.KeychainStore

Provider: SunPKCS11, Version: 17.0, Class: sun.security.pkcs11.SunPKCS11

Description: Unconfigured and unusable PKCS11 provider

Services (0):

Provider: BC, Version: 1.71, Class:

org.bouncycastle.jce.provider.BouncyCastleProvider

Description: BouncyCastle Security Provider v1.71

Services (1369):

Service: Cipher, Algorithm: PBEWITHMD5AND128BITAES-CBC-OPENSSL, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithAESCBC

Service: MessageDigest, Algorithm: SHAKE256-512, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$DigestShake256_512

Aliases: SHAKE256

Service: Signature, Algorithm: MD2WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$MD2

Aliases: MD2WithRSAEncryption

Service: KeyGenerator, Algorithm: CAMELLIA, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$KeyGen

Aliases: 1.2.392.200011.61.1.1.1.4

Service: Signature, Algorithm: SHA1WITHDETDSDA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSA

Service: KeyAgreement, Algorithm: DHUWITHSHA384CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHUwithSHA384CKDF

Service: Cipher, Algorithm: OID.2.5.8.1.1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.CipherSpi\$PKCS1v1_5Padding

Service: Mac, Algorithm: SM4-CMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.SM4\$CMAC

Aliases: SM4CMAC

Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.45, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256

Service: AlgorithmParameters, Algorithm: SHACAL-2, Class:
org.bouncycastle.jcajce.provider.symmetric.Shacal2\$AlgParams

Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.44, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192

Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.43, Class:

org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.42, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256
Service: Mac, Algorithm: POLY1305-SEED, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$Poly1305
Aliases: POLY1305SEED
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.41, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.40, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128
Service: MessageDigest, Algorithm: KECCAK-224, Class:
org.bouncycastle.jcajce.provider.digest.Keccak\$Digest224
Service: Signature, Algorithm: SHAKE256WITHRSAPSS, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHAKE256WithRSA
PSS
Aliases: SHAKE256WithRSA/PSS
Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.14, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256
Service: Cipher, Algorithm: 1.2.410.200004.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$CBC
Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.13, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256
Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.12, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256
Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.11, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256
Service: KeyGenerator, Algorithm: Skein-MAC-512-384, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMacKeyGenerator_512_384
Aliases: Skein-MAC512/384
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.39, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.38, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.37, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128
Service: KeyAgreement, Algorithm: ECCDHUWITHSHA256KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHUwithSHA256KD
F
Service: SecretKeyFactory, Algorithm: PBEWITHSHA1ANDRC2, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$PBEWithSHA1KeyFactory
Aliases: OID.1.2.840.113549.1.5.11
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.36, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256
Service: KeyGenerator, Algorithm: Shacal2, Class:
org.bouncycastle.jcajce.provider.symmetric.Shacal2\$KeyGen
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.35, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192

Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.34, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128
Service: Cipher, Algorithm: 2.16.840.1.101.3.4.1.24, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$CFB
Service: Cipher, Algorithm: 2.16.840.1.101.3.4.1.23, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$OFB
Service: Cipher, Algorithm: 2.16.840.1.101.3.4.1.22, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$CBC
Service: KeyAgreement, Algorithm: ECDHWITHSHA1KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA1KDFAndSharedInfo
Service: Cipher, Algorithm: ECIESWITHSHA512ANDAES-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA512andAES
CBC
Service: Cipher, Algorithm: 2.16.840.1.101.3.4.1.21, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$ECB
Service: Signature, Algorithm: SHA1WITHPLAIN-ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecCVDSA
Aliases: SHA1withPLAIN-ECDSA
Service: Signature, Algorithm: RIPEMD160WITHRSA/X9.31, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.X931SignatureSpi\$RIPEMD160WithR
SAEncryption
Aliases: RIPEMD160withRSA/X9.31
Service: Cipher, Algorithm: PBEWITHMD5ANDRC2, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$PBEWithMD5AndRC2
Aliases: PBEWITHMD5ANDRC2-CBC
Service: Cipher, Algorithm: CHACHA7539, Class:
org.bouncycastle.jcajce.provider.symmetric.ChaCha\$Base7539
Aliases: CHACHA20
Service: KeyGenerator, Algorithm: HMACSkein-256-224, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HMacKeyGenerator_256_224
Aliases: HMAC-Skein-256-224
Service: Mac, Algorithm: Threefish-1024CMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.Threefish\$CMAC_1024
Service: KeyGenerator, Algorithm: HMACSkein-1024-512, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HMacKeyGenerator_1024_512
Aliases: HMAC-Skein-1024-512
Service: KeyFactory, Algorithm: ECMQV, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyFactorySpi\$ECMQV
Aliases: 1.3.133.16.840.63.0.16
Service: Signature, Algorithm: SHA512(224)WITHRSAANDSHAKE128, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA512_224withRS
AandSHAKE128
Aliases: SHA512(224)WithRSAAndSHAKE128
Service: Cipher, Algorithm: ECIESWITHSHA384, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA384
Service: Signature, Algorithm: DSTU4145, Class:

org.bouncycastle.jcajce.provider.asymmetric.dstu.SignatureSpi
Aliases: 1.2.804.2.1.1.1.3.1.1.1.1
Service: Cipher, Algorithm: ECIESWITHDESEDE-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithDESedeCBC
Service: Mac, Algorithm: HMACSkein-1024-512, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HashMac_1024_512
Aliases: HMAC-Skein-1024-512
Service: MessageDigest, Algorithm: OID.1.0.10118.3.0.55, Class:
org.bouncycastle.jcajce.provider.digest.Whirlpool\$Digest
Service: Cipher, Algorithm: ECIESwithSHA512andDESEDE-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA512andDESedeCBC
Service: Cipher, Algorithm: DSTU7624-128, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$ECB_128
Service: KeyAgreement, Algorithm: MQVWITHSHA384KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$MQVwithSHA384KDF
Service: Cipher, Algorithm: ECIESwithSHA1, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIES
Service: KeyAgreement, Algorithm: X25519WITHSHA256CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X25519withSHA256CKDF
Service: Signature, Algorithm: SHA384WITHDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSA384
Service: Cipher, Algorithm: OID.1.3.6.1.4.1.11591.13.2.4, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$CFB
Service: Cipher, Algorithm: OID.1.3.6.1.4.1.11591.13.2.3, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$OFB
Service: Cipher, Algorithm: OID.1.3.6.1.4.1.11591.13.2.2, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$CBC
Service: Cipher, Algorithm: OID.1.3.6.1.4.1.11591.13.2.1, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$ECB
Service: SecretKeyFactory, Algorithm: PBEWITHSHAAND128BITRC2-CBC, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$PBEWithSHAAnd128BitKeyFactory
Aliases: PBEWITHSHA1AND128BITRC2-CBC
Service: AlgorithmParameterGenerator, Algorithm: Shacal2, Class:
org.bouncycastle.jcajce.provider.symmetric.Shacal2\$AlgParamGen
Service: MessageDigest, Algorithm: SHA3-512, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$Digest512
Service: Mac, Algorithm: KMAC256, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$KMac256
Aliases: KMAC256
Service: KeyGenerator, Algorithm: OID.1.2.410.200004.7.1.1.1, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$KeyGen
Service: KeyGenerator, Algorithm: POLY1305, Class:
org.bouncycastle.jcajce.provider.symmetric.Poly1305\$KeyGen
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.14, Class:

org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.13, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256
Service: KeyFactory, Algorithm: RSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.KeyFactorySpi
Aliases: 1.2.840.113549.1.1.7
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.12, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.11, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256
Service: KeyAgreement, Algorithm: DHWITHSHA384KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHwithSHA384KDF
Service: KeyGenerator, Algorithm: Threefish-512, Class:
org.bouncycastle.jcajce.provider.symmetric.Threefish\$KeyGen_512
Service: Mac, Algorithm: Skein-MAC-512-384, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMac_512_384
Aliases: Skein-MAC512/384
Service: KeyAgreement, Algorithm: 1.3.133.16.840.63.0.16, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQVwithSHA1KDF
AndSharedInfo
Service: KeyGenerator, Algorithm: SEED-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$KeyGen
Aliases: SEEDGMAC
Service: Signature, Algorithm: ED448, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.SignatureSpi\$Ed448
Aliases: 1.3.101.113
Service: AlgorithmParameters, Algorithm: CCM, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$AlgParamsCCM
Aliases: OID.2.16.840.1.101.3.4.1.47
Service: KeyAgreement, Algorithm: ECCDHUWITHSHA384CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHUwithSHA384CK
DF
Service: Signature, Algorithm: SHA3-224WITHECDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$SecDetDSASha3_224
Service: Cipher, Algorithm: 1.2.804.2.1.1.1.1.1.3.6.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$OFB512
Service: Mac, Algorithm: HMACGOST3411-2012-256, Class:
org.bouncycastle.jcajce.provider.digest.GOST3411\$HashMac2012_256
Aliases: HMAC/GOST3411-2012-256
Service: Cipher, Algorithm: 1.2.804.2.1.1.1.1.1.3.6.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$OFB256
Service: KeyGenerator, Algorithm: HMACTIGER, Class:
org.bouncycastle.jcajce.provider.digest.Tiger\$KeyGenerator
Aliases: HMAC-TIGER
Service: Cipher, Algorithm: 1.2.804.2.1.1.1.1.1.3.6.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$OFB128
Service: Cipher, Algorithm: PBEWITHSHA1ANDDES, Class:

org.bouncycastle.jcajce.provider.symmetric.DES\$PBEWithSHA1
Aliases: PBEWITHSHA1ANDDES-CBC
Service: Cipher, Algorithm: AESRFC3211WRAP, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$RFC3211Wrap
Service: Mac, Algorithm: HMACRIPEMD256, Class:
org.bouncycastle.jcajce.provider.digest.RIPEMD256\$HashMac
Aliases: HMAC/RIPEMD256
Service: Cipher, Algorithm: OID.1.2.392.200011.61.1.1.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$CBC
Service: Cipher, Algorithm: OID.1.2.392.200011.61.1.1.1.3, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$CBC
Service: Cipher, Algorithm: OID.1.2.392.200011.61.1.1.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$CBC
Service: Mac, Algorithm: Threefish-256CMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.Threefish\$CMAC_256
Service: AlgorithmParameterGenerator, Algorithm: AES, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$AlgParamGen
Aliases: 2.16.840.1.101.3.4.2
Service: MessageDigest, Algorithm: RIPEMD160, Class:
org.bouncycastle.jcajce.provider.digest.RIPEMD160\$Digest
Aliases: 1.3.36.3.2.1
Service: Mac, Algorithm: CAST6-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.CAST6\$GMAC
Aliases: CAST6GMAC
Service: Cipher, Algorithm: IESWITHAES-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.IESCipher\$IESwithAESCBC
Service: Cipher, Algorithm: PBEWITHMD5AND192BITAES-CBC-OPENSSL, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithAESCBC
Service: KeyFactory, Algorithm: ECGOST3410-2012, Class:
org.bouncycastle.jcajce.provider.asymmetric.ecgost12.KeyFactorySpi
Aliases: GOST-3410-2012
Service: SecretKeyFactory, Algorithm: PBEWITHSHAAND2-KEYTRIPLEDES-CBC,
Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$PBEWithSHAAndDES2KeyFactor
y
Aliases: 1.2.840.113549.1.12.1.4
Service: Cipher, Algorithm: PBEWITHSHAAND128BITRC2-CBC, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$PBEWithSHAAnd128BitRC2
Aliases: PBEWITHSHA1AND128BITRC2-CBC
Service: Cipher, Algorithm: 1.2.643.2.2.13.1, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST28147\$CryptoProWrap
Service: Cipher, Algorithm: 1.2.643.2.2.13.0, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST28147\$GostWrap
Service: Cipher, Algorithm: RC5-64, Class:
org.bouncycastle.jcajce.provider.symmetric.RC5\$ECB64
Service: SecretKeyFactory, Algorithm: PBKDF2WITHHMACSHA3-512, Class:
org.bouncycastle.jcajce.provider.symmetric.PBEPBKDF2\$PBKDF2withSHA3_512

Service: Signature, Algorithm: MD5WITHRSA/ISO9796-2, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.ISOSignatureSpi\$MD5WithRSAEncryption

Aliases: MD5WithRSA/ISO9796-2

Service: Signature, Algorithm: SHA512(224)WITHRSA/ISO9796-2, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.ISOSignatureSpi\$SHA512_224WithRSAEncryption

Aliases: SHA512(224)withRSA/ISO9796-2

Service: Mac, Algorithm: NOEKEON-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.Noekeon\$GMAC

Aliases: NOEKEONGMAC

Service: X509Store, Algorithm: CRL/COLLECTION, Class:
org.bouncycastle.jce.provider.X509StoreCRLCollection

Service: KeyAgreement, Algorithm: ECMQVWITHSHA224KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQVwithSHA224KDF

Service: AlgorithmParameterGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.3.5.3,
Class: org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$AlgParamGen512

Service: X509Store, Algorithm: CERTIFICATEPAIR/COLLECTION, Class:
org.bouncycastle.jce.provider.X509StoreCertPairCollection

Service: AlgorithmParameterGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.3.5.2,
Class: org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$AlgParamGen256

Service: AlgorithmParameterGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.3.5.1,
Class: org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$AlgParamGen128

Service: Cipher, Algorithm: 1.3.6.1.4.1.11591.13.2.4, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$CFB

Service: Cipher, Algorithm: 1.3.6.1.4.1.11591.13.2.3, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$OFB

Service: KeyAgreement, Algorithm: 1.3.132.1.15.3, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQVwithSHA512KDFAndSharedInfo

Service: Cipher, Algorithm: 1.3.6.1.4.1.11591.13.2.2, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$CBC

Service: KeyAgreement, Algorithm: 1.3.132.1.15.2, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQVwithSHA384KDFAndSharedInfo

Service: Cipher, Algorithm: 1.3.6.1.4.1.11591.13.2.1, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$ECB

Service: KeyAgreement, Algorithm: 1.3.132.1.15.1, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQVwithSHA256KDFAndSharedInfo

Service: KeyAgreement, Algorithm: 1.3.132.1.15.0, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQVwithSHA224KDFAndSharedInfo

Service: Cipher, Algorithm: ZUC-128, Class:
org.bouncycastle.jcajce.provider.symmetric.Zuc\$Zuc128

Service: KeyGenerator, Algorithm: RIJNDAEL, Class:

org.bouncycastle.jcajce.provider.symmetric.Rijndael\$KeyGen
Service: Mac, Algorithm: DSTU7624-256GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$GMAC256
Aliases: 1.2.804.2.1.1.1.1.1.3.7.2
Service: Cipher, Algorithm: ARIA, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$ECB
Aliases: OID.1.2.410.200046.1.1.14
Service: KeyAgreement, Algorithm: ECGOST3410-2012-256, Class:
org.bouncycastle.jcajce.provider.asymmetric.ecgost12.KeyAgreementSpi\$ECVKO256
Aliases: 1.2.643.7.1.1.1.1
Service: MessageDigest, Algorithm: KECCAK-512, Class:
org.bouncycastle.jcajce.provider.digest.Keccak\$Digest512
Service: KeyAgreement, Algorithm: ECCDHWITHSHA512CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA512CKD
F
Service: AlgorithmParameterGenerator, Algorithm: ARIACCM, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$AlgParamGen
Aliases: 1.2.410.200046.1.1.37
Service: SecretKeyFactory, Algorithm: CAMELLIA, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$KeyFactory
Aliases: 1.2.392.200011.61.1.1.1.4
Service: Cipher, Algorithm: PBEWITHSHAAND192BITAES-CBC-BC, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithSHA1AESCBC192
Aliases: 1.3.6.1.4.1.22554.1.1.2.1.22
Service: Cipher, Algorithm: ECIESwithDESEDE-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithDESedeCBC
Service: KeyGenerator, Algorithm: KMAC256, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$KeyGenerator512
Aliases: KMAC256
Service: KeyGenerator, Algorithm: SALSA20, Class:
org.bouncycastle.jcajce.provider.symmetric.Salsa20\$KeyGen
Service: MessageDigest, Algorithm: RIPEMD128, Class:
org.bouncycastle.jcajce.provider.digest.RIPEMD128\$Digest
Aliases: 1.3.36.3.2.2
Service: Cipher, Algorithm: SM2WITHRIPEMD160, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.GMCipherSpi\$SM2withRMD
Aliases: 1.2.156.10197.1.301.3.2.7
Service: MessageDigest, Algorithm: 2.16.840.1.101.3.4.2.12, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$DigestShake256_512
Service: MessageDigest, Algorithm: 2.16.840.1.101.3.4.2.11, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$DigestShake128_256
Service: MessageDigest, Algorithm: 2.16.840.1.101.3.4.2.10, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$Digest512
Service: Cipher, Algorithm: ECIESwithSHA384andAES-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA384andAES
CBC
Service: KeyAgreement, Algorithm: MQVWITHSHA1CKDF, Class:

org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$MQVwithSHA1CKDF

Service: KeyGenerator, Algorithm: SM4-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.SM4\$KeyGen

Aliases: SM4GMAC

Service: Signature, Algorithm: SHA3-512WITHDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$dsaSha3_512

Aliases: 2.16.840.1.101.3.4.3.8

Service: Mac, Algorithm: HMACGOST3411, Class:
org.bouncycastle.jcajce.provider.digest.GOST3411\$HashMac

Aliases: HMAC/GOST3411

Service: KeyStore, Algorithm: BCFKS-DEF, Class:
org.bouncycastle.jcajce.provider.keystore.bcfks.BcFKSKeyStoreSpi\$Def

Service: KeyPairGenerator, Algorithm: ECDH, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyPairGeneratorSpi\$ECDH

Service: KeyGenerator, Algorithm: Grainv1, Class:
org.bouncycastle.jcajce.provider.symmetric.Grainv1\$KeyGen

Service: Cipher, Algorithm: AES, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$ECB

Aliases: 2.16.840.1.101.3.4.2

Attributes:

SupportedKeyFormats: RAW

SupportedKeyClasses: javax.crypto.SecretKey

Service: Signature, Algorithm: OID.1.3.6.1.5.5.7.6.31, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHAKE256WithRSPSS

Service: Signature, Algorithm: OID.1.3.6.1.5.5.7.6.30, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHAKE128WithRSPSS

Service: Cipher, Algorithm: PBEWITHMD2ANDDES, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$PBEWithMD2

Aliases: PBEWITHMD2ANDDES-CBC

Service: MessageDigest, Algorithm: BLAKE2B-384, Class:
org.bouncycastle.jcajce.provider.digest.Blake2b\$Blake2b384

Aliases: 1.3.6.1.4.1.1722.12.2.1.12

Service: SecretKeyFactory, Algorithm: OID.1.3.14.3.2.17, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$KeyFactory

Service: SecretKeyFactory, Algorithm: 2.16.840.1.101.3.4.1, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyFactory

Service: KeyAgreement, Algorithm: ECDHWITHSHA512KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA512KDFAndSharedInfo

Service: Cipher, Algorithm: SM2WITHBLAKE2S, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.GMCipherSpi\$SM2withBlake2s

Aliases: 1.2.156.10197.1.301.3.2.10

Service: KeyGenerator, Algorithm: Threefish-1024, Class:
org.bouncycastle.jcajce.provider.symmetric.Threefish\$KeyGen_1024

Service: AlgorithmParameterGenerator, Algorithm: 1.2.840.113549.3.2, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$AlgParamGen
Service: Cipher, Algorithm: DESRFC3211WRAP, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$RFC3211
Service: AlgorithmParameterGenerator, Algorithm: DES, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$AlgParamGen
Aliases: 1.3.14.3.2.7
Service: Signature, Algorithm: SHA512WITHDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$dsa512
Aliases: SHA512WithDSA
Service: KeyFactory, Algorithm: X25519, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyFactorySpi\$X25519
Service: Cipher, Algorithm: SM2WITHBLAKE2B, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.GMCipherSpi\$SM2withBlake2b
Aliases: 1.2.156.10197.1.301.3.2.9
Service: Cipher, Algorithm: BROKENPBEWITHSHA1ANDDES, Class:
org.bouncycastle.jce.provider.BrokenJCEBlockCipher\$BrokePBEWithSHA1AndDES
Service: Mac, Algorithm: OLDHMACSHA512, Class:
org.bouncycastle.jcajce.provider.digest.SHA512\$OldSHA512
Service: MessageDigest, Algorithm: Skein-512-256, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$Digest_512_256
Service: Signature, Algorithm: SHA1WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$SHA1
Aliases: SHA1WithRSAEncryption
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.7.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.7.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.7.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128
Service: Mac, Algorithm: POLY1305-RC6, Class:
org.bouncycastle.jcajce.provider.symmetric.RC6\$Poly1305
Aliases: POLY1305RC6
Service: KeyAgreement, Algorithm: ECMQVWITHSHA512CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQVwithSHA512C
KDF
Service: KeyFactory, Algorithm: EDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyFactorySpi\$EdDSA
Aliases: 1.3.101.113
Service: Mac, Algorithm: HMACECCAK384, Class:
org.bouncycastle.jcajce.provider.digest.Keccak\$HashMac384
Aliases: HMAC/KECCAK384
Service: KeyAgreement, Algorithm: X448WITHSHA384CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X448withSHA384
CKDF
Service: Cipher, Algorithm: ARIAWRAPPAD, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$WrapPad

Aliases: OID.1.2.410.200046.1.1.45
Service: Cipher, Algorithm: SHACAL-2, Class:
org.bouncycastle.jcajce.provider.symmetric.Shacal2\$ECB
Service: AlgorithmParameters, Algorithm: 1.2.840.113549.3.2, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$AlgParams
Service: KeyGenerator, Algorithm: Twofish-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.Twofish\$KeyGen
Aliases: TwofishGMAC
Service: KeyGenerator, Algorithm: HMACSkein-512-160, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HMacKeyGenerator_512_160
Aliases: HMAC-Skein-512-160
Service: Cipher, Algorithm: Threefish-256, Class:
org.bouncycastle.jcajce.provider.symmetric.Threefish\$ECB_256
Service: MessageDigest, Algorithm: WHIRLPOOL, Class:
org.bouncycastle.jcajce.provider.digest.Whirlpool\$Digest
Service: MessageDigest, Algorithm: OID.2.16.840.1.101.3.4.2.12, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$DigestShake256_512
Service: MessageDigest, Algorithm: OID.2.16.840.1.101.3.4.2.11, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$DigestShake128_256
Service: MessageDigest, Algorithm: OID.2.16.840.1.101.3.4.2.10, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$Digest512
Service: AlgorithmParameters, Algorithm: 1.2.804.2.1.1.1.1.1.3.5.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$AlgParams
Service: AlgorithmParameters, Algorithm: 1.2.804.2.1.1.1.1.1.3.5.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$AlgParams
Service: AlgorithmParameters, Algorithm: 1.2.804.2.1.1.1.1.1.3.5.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$AlgParams
Service: SecretKeyFactory, Algorithm: PBEWITHSHAAND128BITRC4, Class:
org.bouncycastle.jcajce.provider.symmetric.ARC4\$PBEWithSHAAnd128BitKeyFactory
Aliases: 1.2.840.113549.1.12.1.1
Service: Cipher, Algorithm: ELGAMAL/PKCS1, Class:
org.bouncycastle.jcajce.provider.asymmetric.elgamal.CipherSpi\$PKCS1v1_5Padding
Aliases: ELGAMAL/NONE/PKCS1PADDING
Service: Mac, Algorithm: POLY1305, Class:
org.bouncycastle.jcajce.provider.symmetric.Poly1305\$Mac
Service: Mac, Algorithm: HMACSHA3-384, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$HashMac384
Aliases: HMAC-SHA3-384
Service: Signature, Algorithm: SHAKE256WITHECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDSAShake256
Aliases: 1.3.6.1.5.5.7.6.33
Service: AlgorithmParameterGenerator, Algorithm: ARIA, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$AlgParamGen
Aliases: OID.1.2.410.200046.1.1.14
Service: KeyStore, Algorithm: PKCS12-DEF-3DES-3DES, Class:
org.bouncycastle.jcajce.provider.keystore.pkcs12.PKCS12KeyStoreSpi\$DefPKCS12KeyStore3DES

Service: AlgorithmParameters, Algorithm: IES, Class:
org.bouncycastle.jcajce.provider.asymmetric.ies.AlgorithmParametersSpi
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.2.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.2.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.2.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128
Service: Cipher, Algorithm: ARC4, Class:
org.bouncycastle.jcajce.provider.symmetric.ARC4\$Base
Aliases: RC4
Service: SecretKeyFactory, Algorithm: PBEWITHMD5ANDDES, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$PBEWithMD5KeyFactory
Aliases: OID.1.2.840.113549.1.5.3
Service: Mac, Algorithm: HMACSkein-512-256, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HashMac_512_256
Aliases: HMAC-Skein-512-256
Service: CertStore, Algorithm: Collection, Class:
org.bouncycastle.jce.provider.CertStoreCollectionSpi
Service: Mac, Algorithm: DESEDEMAC64WITHISO7816-4PADDING, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$DESede64with7816d4
Aliases: DESEDEISO9797ALG1WITHISO7816-4PADDING
Service: KeyGenerator, Algorithm: 1.2.410.200004.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$KeyGen
Service: AlgorithmParameterGenerator, Algorithm: GOST28147, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST28147\$AlgParamGen
Aliases: GOST-28147
Service: AlgorithmParameters, Algorithm: RC5-64, Class:
org.bouncycastle.jcajce.provider.symmetric.RC5\$AlgParams
Service: Signature, Algorithm: SHA1WITHRSA/ISO9796-2, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.ISOSignatureSpi\$SHA1WithRSAEncryption
Aliases: SHA1WithRSA/ISO9796-2
Service: Mac, Algorithm: HMACGOST3411-2012-512, Class:
org.bouncycastle.jcajce.provider.digest.GOST3411\$HashMac2012_512
Aliases: HMAC/GOST3411-2012-512
Service: MessageDigest, Algorithm: Skein-512-224, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$Digest_512_224
Service: Cipher, Algorithm: 1.2.392.200011.61.1.1.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$CBC
Service: Cipher, Algorithm: Shacal2, Class:
org.bouncycastle.jcajce.provider.symmetric.Shacal2\$ECB
Service: Cipher, Algorithm: 1.2.392.200011.61.1.1.1.3, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$CBC
Service: Cipher, Algorithm: 1.2.392.200011.61.1.1.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$CBC
Service: KeyFactory, Algorithm: COMPOSITE, Class:

org.bouncycastle.jcajce.provider.asymmetric.COMPOSITE\$KeyFactory
Service: Signature, Algorithm: SHA3-384WITHECDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDetDSASha3_384
Service: Signature, Algorithm: SHA3-512WITHRSAANDSHAKE128, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA3_512withRSA
andSHAKE128
Aliases: SHA3-512WithRSAAndSHAKE128
Service: Cipher, Algorithm: ECIESwithSHA256andAES-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA256andAES
CBC
Service: MessageDigest, Algorithm: BLAKE2S-256, Class:
org.bouncycastle.jcajce.provider.digest.Blake2s\$Blake2s256
Aliases: 1.3.6.1.4.1.1722.12.2.2.8
Service: MessageDigest, Algorithm: Skein-1024-1024, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$Digest_1024_1024
Service: Cipher, Algorithm: ECIESwithSHA384, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA384
Service: KeyAgreement, Algorithm: ECCDH, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHC
Attributes:
SupportedKeyFormats: PKCS#8IX.509
SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey
Service: Cipher, Algorithm: ARIAWRAP, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$Wrap
Aliases: OID.1.2.410.200046.1.1.42
Service: KeyGenerator, Algorithm: XTEA, Class:
org.bouncycastle.jcajce.provider.symmetric.XTEA\$KeyGen
Service: KeyGenerator, Algorithm: HMACSkein-512-128, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HMacKeyGenerator_512_128
Aliases: HMAC-Skein-512-128
Service: Cipher, Algorithm: TEA, Class:
org.bouncycastle.jcajce.provider.symmetric.TEA\$ECB
Service: Cipher, Algorithm: DES, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$ECB
Aliases: 1.3.14.3.2.7
Service: AlgorithmParameters, Algorithm: CHACHA7539, Class:
org.bouncycastle.jcajce.provider.symmetric.ChaCha\$AlgParams
Aliases: CHACHA20
Service: KeyPairGenerator, Algorithm: XDH, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyPairGeneratorSpi\$XDH
Aliases: 1.3.101.110
Service: Signature, Algorithm: SHA512WITHDETDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSA512
Service: Cipher, Algorithm: SM2WITHWHIRLPOOL, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.GMCipherSpi\$SM2withWhirlpool
Aliases: 1.2.156.10197.1.301.3.2.8

Service: Cipher, Algorithm: ECIESwithAES-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithAESCBC

Service: Cipher, Algorithm: OID.1.2.410.200046.1.1.14, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$OFB

Service: Cipher, Algorithm: OID.1.2.410.200046.1.1.13, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$CFB

Service: Signature, Algorithm: MD5WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$MD5

Aliases: MD5WithRSAEncryption

Service: Cipher, Algorithm: OID.1.2.410.200046.1.1.12, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$CBC

Service: Cipher, Algorithm: OID.1.2.410.200046.1.1.11, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$ECB

Service: KeyAgreement, Algorithm: ECDH, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DH

Attributes:

SupportedKeyFormats: PKCS#8IX.509

SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey

Service: KeyAgreement, Algorithm: ECCDHUWITHSHA1KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHUwithSHA1KDF

Service: Mac, Algorithm: HMACMD5, Class:
org.bouncycastle.jcajce.provider.digest.MD5\$HashMac

Aliases: HMAC/MD5

Service: Mac, Algorithm: HMACMD4, Class:
org.bouncycastle.jcajce.provider.digest.MD4\$HashMac

Aliases: HMAC/MD4

Service: Mac, Algorithm: HMACSkein-512-224, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HashMac_512_224

Aliases: HMAC-Skein-512-224

Service: SecretKeyFactory, Algorithm: 1.3.14.3.2.17, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$KeyFactory

Service: Mac, Algorithm: HMACMD2, Class:
org.bouncycastle.jcajce.provider.digest.MD2\$HashMac

Aliases: HMAC/MD2

Service: KeyFactory, Algorithm: ELGAMAL, Class:
org.bouncycastle.jcajce.provider.asymmetric.elgamal.KeyFactorySpi

Aliases: 1.3.14.7.2.1.1

Service: Cipher, Algorithm: ECIESWITHSHA256ANDDESEDE-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA256andDESedeCBC

Service: Signature, Algorithm: SHA384WITHRSA/X9.31, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.X931SignatureSpi\$SHA384WithRSAEncryption

Aliases: SHA384WithRSA/X9.31

Service: KeyAgreement, Algorithm: ECGOST3410-2012-512, Class:
org.bouncycastle.jcajce.provider.asymmetric.ecgost12.KeyAgreementSpi\$ECVKO512

Aliases: ECGOST3410-2012-512
Service: KeyGenerator, Algorithm: HMACRIPEMD320, Class:
org.bouncycastle.jcajce.provider.digest.RIPEMD320\$KeyGenerator
Aliases: HMAC-RIPEMD320
Service: KeyGenerator, Algorithm: SM4, Class:
org.bouncycastle.jcajce.provider.symmetric.SM4\$KeyGen
Service: X509Store, Algorithm: CERTIFICATEPAIR/LDAP, Class:
org.bouncycastle.jce.provider.X509StoreLDAPCertPairs
Service: MessageDigest, Algorithm: BLAKE2S-224, Class:
org.bouncycastle.jcajce.provider.digest.Blake2s\$Blake2s224
Aliases: 1.3.6.1.4.1.1722.12.2.2.7
Service: Cipher, Algorithm: 1.2.840.113533.7.66.10, Class:
org.bouncycastle.jcajce.provider.symmetric.CAST5\$CBC
Service: KeyAgreement, Algorithm: OID.1.3.133.16.840.63.0.3, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$CDHwithSHA1KDF
AndSharedInfo
Service: KeyAgreement, Algorithm: OID.1.2.840.113549.1.9.16.3.5, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHwithRFC2631KD
F
Service: SecretKeyFactory, Algorithm: PBEWITHSHAAND192BITAES-CBC-BC,
Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithSHAAnd192BitAESBC
Aliases: 1.3.6.1.4.1.22554.1.1.2.1.22
Service: KeyAgreement, Algorithm: OID.1.3.133.16.840.63.0.2, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA1KDFAn
dSharedInfo
Service: Mac, Algorithm: DESEDEMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$CBCMAC
Aliases: DESEDE
Service: AlgorithmParameters, Algorithm: ZUC-128, Class:
org.bouncycastle.jcajce.provider.symmetric.Zuc\$AlgParams
Service: SecretKeyFactory, Algorithm: OID.1.3.6.1.4.1.11591.4.11, Class:
org.bouncycastle.jcajce.provider.symmetric.SCRYPT\$ScryptWithUTF8
Service: SecretKeyFactory, Algorithm: PBEWITHSHA256AND128BITAES-CBC-BC,
Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithSHA256And128BitAESBC
Aliases: PBEWITHSHA-256AND128BITAES-CBC-BC
Service: AlgorithmParameterGenerator, Algorithm: GCM, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$AlgParamGenGCM
Aliases: OID.2.16.840.1.101.3.4.1.46
Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.2.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CTR512
Service: KeyGenerator, Algorithm: AESWRAP, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen
Aliases: OID.2.16.840.1.101.3.4.1.45
Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.2.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CTR256

Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.2.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CTR128

Service: Cipher, Algorithm: IESwithAES-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.IESCipher\$IESwithAESCBC

Service: Mac, Algorithm: DESEDEMAC64, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$DESede64
Aliases: DESEDE64

Service: Signature, Algorithm: SHA3-256WITHRSAANDSHAKE128, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA3_256withRSA
andSHAKE128
Aliases: SHA3-256withRSAandSHAKE128

Service: Mac, Algorithm: SM4-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.SM4\$GMAC
Aliases: SM4GMAC

Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.5.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512

Service: KeyAgreement, Algorithm: MQVWITHSHA224CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$MQVwithSHA224C
KDF

Service: Cipher, Algorithm: ARIACCM, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$CCM
Aliases: 1.2.410.200046.1.1.37

Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.5.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256

Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.5.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128

Service: KeyGenerator, Algorithm: SIPHASH, Class:
org.bouncycastle.jcajce.provider.symmetric.SipHash\$KeyGen
Aliases: SIPHASH-4-8

Service: KeyAgreement, Algorithm: X25519WITHSHA384CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X25519withSHA3
84CKDF

Service: Mac, Algorithm: HMACSM3, Class:
org.bouncycastle.jcajce.provider.digest.SM3\$HashMac
Aliases: HMAC-SM3

Service: KeyStore, Algorithm: BKS, Class:
org.bouncycastle.jcajce.provider.keystore.bc.BcKeyStoreSpi\$Std

Service: MessageDigest, Algorithm: SHA-1, Class:
org.bouncycastle.jcajce.provider.digest.SHA1\$Digest
Aliases: 1.3.14.3.2.26

Service: Mac, Algorithm: HMACSHA1, Class:
org.bouncycastle.jcajce.provider.digest.SHA1\$HashMac
Aliases: 1.3.6.1.5.5.8.1.2

Service: KeyGenerator, Algorithm: Tnepres, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$TKeyGen

Service: AlgorithmParameters, Algorithm: Threefish-1024, Class:
org.bouncycastle.jcajce.provider.symmetric.Threefish\$AlgParams_1024

Service: MessageDigest, Algorithm: SHA-384, Class:
org.bouncycastle.jcajce.provider.digest.SHA384\$Digest
Aliases: SHA384

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.9, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.8, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.7, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.6, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.3, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128

Service: KeyAgreement, Algorithm: MQVWITHSHA256KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$MQVwithSHA256KDF

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.1, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128

Service: MessageDigest, Algorithm: 2.16.840.1.101.3.4.2.9, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$Digest384

Service: MessageDigest, Algorithm: 2.16.840.1.101.3.4.2.8, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$Digest256

Service: Cipher, Algorithm: PBEWITHSHA256AND256BITAES-CBC-BC, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithSHA256AESCBC256
Aliases: PBEWITHSHA-256AND256BITAES-BC

Service: MessageDigest, Algorithm: 2.16.840.1.101.3.4.2.7, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$Digest224

Service: Signature, Algorithm: SHA3-256WITHECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$SecDetDSASha3_256

Service: Signature, Algorithm: LMS, Class:
org.bouncycastle.pqc.jcajce.provider.lms.LMSSignatureSpi\$generic
Aliases: 1.2.840.113549.1.9.16.3.17

Service: Mac, Algorithm: GOST28147MAC, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST28147\$Mac
Aliases: GOST28147

Service: KeyGenerator, Algorithm: HMACDSTU7564-384, Class:
org.bouncycastle.jcajce.provider.digest.DSTU7564\$KeyGenerator384
Aliases: HMAC-DSTU7564-384

Service: MessageDigest, Algorithm: Skein-512-512, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$Digest_512_512

Service: KeyGenerator, Algorithm: HMACMD5, Class:
org.bouncycastle.jcajce.provider.digest.MD5\$KeyGenerator
Aliases: HMAC/MD5

Service: KeyGenerator, Algorithm: HMACMD4, Class:
org.bouncycastle.jcajce.provider.digest.MD4\$KeyGenerator
Aliases: HMAC/MD4

Service: KeyGenerator, Algorithm: HMACMD2, Class:
org.bouncycastle.jcajce.provider.digest.MD2\$KeyGenerator
Aliases: HMAC/MD2

Service: Cipher, Algorithm: SALSA20, Class:
org.bouncycastle.jcajce.provider.symmetric.Salsa20\$Base

Service: Cipher, Algorithm: NOEKEON, Class:
org.bouncycastle.jcajce.provider.symmetric.Noekeon\$ECB

Service: KeyAgreement, Algorithm: DHWITHSHA256KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHwithSHA256KDF

Service: Cipher, Algorithm: 1.2.410.200046.1.1.9, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$OFB

Service: Cipher, Algorithm: 1.2.410.200046.1.1.8, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$CFB

Service: AlgorithmParameterGenerator, Algorithm: SHACAL-2, Class:
org.bouncycastle.jcajce.provider.symmetric.Shacal2\$AlgParamGen

Service: Cipher, Algorithm: 1.2.410.200046.1.1.7, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$CBC

Service: KeyGenerator, Algorithm: POLY1305-SERPENT, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$Poly1305KeyGen
Aliases: POLY1305SERPENT

Service: Cipher, Algorithm: 1.2.410.200046.1.1.6, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$ECB

Service: KeyAgreement, Algorithm: OID.0.4.0.127.0.7.1.1.5.1.1.6, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithRIPEM
D160KDF

Service: Cipher, Algorithm: 1.2.410.200046.1.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$OFB

Service: KeyAgreement, Algorithm: OID.0.4.0.127.0.7.1.1.5.1.1.5, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithSHA51
2KDF

Service: Cipher, Algorithm: 1.2.410.200046.1.1.3, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$CFB

Service: KeyAgreement, Algorithm: OID.0.4.0.127.0.7.1.1.5.1.1.4, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithSHA38
4KDF

Service: Cipher, Algorithm: 1.2.410.200046.1.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$CBC

Service: KeyAgreement, Algorithm: OID.0.4.0.127.0.7.1.1.5.1.1.3, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithSHA25
6KDF

Service: Cipher, Algorithm: 1.2.410.200046.1.1.1, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$ECB

Service: KeyAgreement, Algorithm: OID.0.4.0.127.0.7.1.1.5.1.1.2, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithSHA22

4KDF

Service: Cipher, Algorithm: OID.1.2.840.113533.7.66.10, Class:
org.bouncycastle.jcajce.provider.symmetric.CAST5CBC

Service: KeyAgreement, Algorithm: OID.0.4.0.127.0.7.1.1.5.1.1.1, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithSHA1
KDF

Service: MessageDigest, Algorithm: TUPLEHASH128-256, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$DigestTupleHash128_256
Aliases: TUPLEHASH128

Service: KeyGenerator, Algorithm: DESEDEWRAP, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$KeyGenerator
Aliases: DESEDERFC3217WRAP

Service: Mac, Algorithm: CAMELLIA-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$GMAC
Aliases: CAMELLIAGMAC

Service: Cipher, Algorithm: Threefish-512, Class:
org.bouncycastle.jcajce.provider.symmetric.Threefish\$ECB_512

Service: Mac, Algorithm: SEED-CMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$CMAC
Aliases: SEEDCMAC

Service: KeyGenerator, Algorithm: OID.1.2.410.200004.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$KeyGen

Service: KeyAgreement, Algorithm: DHUWITHSHA224CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHUwithSHA224CK
DF

Service: Signature, Algorithm: SHA256WITHECNR, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecNR256

Service: Signature, Algorithm: RIPEMD160WITHPLAIN-ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecPlainDSARP160
Aliases: RIPEMD160/PLAIN-ECDSA

Service: Signature, Algorithm: RMD256WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$RIPEMD256
Aliases: RMD256WithRSA

Service: Cipher, Algorithm: Grainv1, Class:
org.bouncycastle.jcajce.provider.symmetric.Grainv1\$Base

Service: Signature, Algorithm: SHA3-224WITHDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$dsaSha3_224
Aliases: SHA3-224WithDSA

Service: Signature, Algorithm: SHA1WITHECDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDetDSA
Aliases: SHA1WITHDETECDSA

Service: Signature, Algorithm: SHA384WITHRSAANDMGF1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA384withRSA
Aliases: SHA384WITHRSASSA-PSS

Service: Cipher, Algorithm: PBEWITHSHAAND2-KEYTRIPLEDES-CBC, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$PBEWithSHAAndDES2Key
Aliases: 1.2.840.113549.1.12.1.4

Service: Mac, Algorithm: SIPHASH-2-4, Class:
org.bouncycastle.jcajce.provider.symmetric.SipHash\$Mac24
Aliases: SIPHASH

Service: Mac, Algorithm: HMACSkein-512-512, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HashMac_512_512
Aliases: HMAC/Skein-512-512

Service: KeyAgreement, Algorithm: ECDHWITHSHA224KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA224KDF
AndSharedInfo

Service: Signature, Algorithm: WHIRLPOOLWITHRSA/X9.31, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.X931SignatureSpi\$WhirlpoolWithRSA
Encryption
Aliases: WHIRLPOOLWithRSA/X9.31

Service: KeyPairGenerator, Algorithm: DSTU4145, Class:
org.bouncycastle.jcajce.provider.asymmetric.dstu.KeyPairGeneratorSpi
Aliases: 1.2.804.2.1.1.1.1.3.1.1.1.1

Service: KeyAgreement, Algorithm: DHUWITHSHA512KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHUwithSHA512KD
F

Service: KeyAgreement, Algorithm: ECCDHWITHSHA256CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA256CKD
F

Service: Cipher, Algorithm: GCM, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$GCM
Aliases: OID.2.16.840.1.101.3.4.1.46
Attributes:
SupportedKeyFormats: RAW
SupportedKeyClasses: javax.crypto.SecretKey

Service: Signature, Algorithm: SHA1WITHECNR, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecNR

Service: Cipher, Algorithm: DSTU7624-512KW, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$Wrap512
Aliases: 1.2.804.2.1.1.1.1.1.3.10.3

Service: Signature, Algorithm: SPHINCSPLUS, Class:
org.bouncycastle.pqc.jcajce.provider.sphincsplus.SignatureSpi\$Direct
Aliases: 1.3.6.1.4.1.22554.2.5.2

Service: KeyGenerator, Algorithm: DESEDE, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$KeyGenerator
Aliases: TDEA

Service: MessageDigest, Algorithm: GOST3411, Class:
org.bouncycastle.jcajce.provider.digest.GOST3411\$Digest
Aliases: 1.2.643.2.2.9

Service: KeyGenerator, Algorithm: HMACSM3, Class:
org.bouncycastle.jcajce.provider.digest.SM3\$KeyGenerator
Aliases: HMAC-SM3

Service: KeyGenerator, Algorithm: CHACHA7539, Class:
org.bouncycastle.jcajce.provider.symmetric.ChaCha\$KeyGen7539

Aliases: CHACHA20
Service: Signature, Algorithm: SHA224WITHDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$dsa224
Aliases: SHA224/DSA
Service: MessageDigest, Algorithm: Skein-1024-512, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$Digest_1024_512
Service: Mac, Algorithm: DESMAC64, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$DES64
Aliases: DES64
Service: Cipher, Algorithm: PBEWITHSHAAND128BITAES-CBC-BC, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithSHA1AESCBC128
Aliases: PBEWITHSHA1AND128BITAES-BC
Service: KeyGenerator, Algorithm: POLY1305-AES, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$Poly1305KeyGen
Aliases: POLY1305AES
Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.5.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CBC512
Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.5.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CBC256
Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.5.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CBC128
Service: KeyPairGenerator, Algorithm: ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyPairGeneratorSpi\$ECDSA
Aliases: ECDSAwithSHA1
Service: Signature, Algorithm: SHA1WITHRSAANDMGF1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA1withRSA
Aliases: SHA1WithRSA/PSS
Service: Signature, Algorithm: RIPEMD128WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$RIPEMD128
Aliases: RIPEMD128WITHRSAENCRYPTION
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.8.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.8.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.8.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128
Service: Cipher, Algorithm: CHACHA, Class:
org.bouncycastle.jcajce.provider.symmetric.ChaCha\$Base
Service: Cipher, Algorithm: GOST3412-2015/CTR, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST3412_2015\$CTR
Service: AlgorithmParameters, Algorithm: Shacal2, Class:
org.bouncycastle.jcajce.provider.symmetric.Shacal2\$AlgParams
Service: KeyGenerator, Algorithm: POLY1305-CAMELLIA, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$Poly1305KeyGen
Aliases: POLY1305CAMELLIA
Service: SecretKeyFactory, Algorithm: PBEWITHSHAAND3-KEYTRIPLEDES-CBC,
Class:

org.bouncycastle.jcajce.provider.symmetric.DESede\$PBewithSHAAndDES3KeyFactor
y

Aliases: 1.2.840.113549.1.12.1.3

Service: KeyPairGenerator, Algorithm: DSA, Class:

org.bouncycastle.jcajce.provider.asymmetric.dsa.KeyPairGeneratorSpi

Aliases: DSAWITHSHA1

Service: Signature, Algorithm: SHA512WITHRSA/X9.31, Class:

org.bouncycastle.jcajce.provider.asymmetric.rsa.X931SignatureSpi\$SHA512WithRSAE
ncryption

Aliases: SHA512WithRSA/X9.31

Service: Cipher, Algorithm: RIJNDAEL, Class:

org.bouncycastle.jcajce.provider.symmetric.Rijndael\$ECB

Service: Cipher, Algorithm: ECIESwithSHA256andDESEDE-CBC, Class:

org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA256andDES
edeCBC

Service: Mac, Algorithm: Twofish-GMAC, Class:

org.bouncycastle.jcajce.provider.symmetric.Twofish\$GMAC

Aliases: TwofishGMAC

Service: Signature, Algorithm: SHA1WITHCVC-ECDSA, Class:

org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecCVCDSA

Aliases: 0.4.0.127.0.7.2.2.2.1

Service: SecretKeyFactory, Algorithm: DESEDE, Class:

org.bouncycastle.jcajce.provider.symmetric.DESede\$KeyFactory

Aliases: TDEA

Service: AlgorithmParameterGenerator, Algorithm: ElGamal, Class:

org.bouncycastle.jcajce.provider.asymmetric.elgamal.AlgorithmParameterGeneratorSpi

Service: Signature, Algorithm: SHA224WITHRSA/X9.31, Class:

org.bouncycastle.jcajce.provider.asymmetric.rsa.X931SignatureSpi\$SHA224WithRSAE
ncryption

Aliases: SHA224WithRSA/X9.31

Service: Signature, Algorithm: SHA224WITHECNR, Class:

org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecNR224

Service: Cipher, Algorithm: OID.1.3.14.3.2.7, Class:

org.bouncycastle.jcajce.provider.symmetric.DES\$CBC

Service: KeyPairGenerator, Algorithm: 1.3.101.113, Class:

org.bouncycastle.jcajce.provider.asymmetric.edec.KeyPairGeneratorSpi\$Ed448

Service: KeyPairGenerator, Algorithm: 1.3.101.112, Class:

org.bouncycastle.jcajce.provider.asymmetric.edec.KeyPairGeneratorSpi\$Ed25519

Service: KeyPairGenerator, Algorithm: 1.3.101.111, Class:

org.bouncycastle.jcajce.provider.asymmetric.edec.KeyPairGeneratorSpi\$X448

Service: KeyPairGenerator, Algorithm: 1.3.101.110, Class:

org.bouncycastle.jcajce.provider.asymmetric.edec.KeyPairGeneratorSpi\$X25519

Service: Signature, Algorithm: RSA, Class:

org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$noneRSA

Aliases: 1.2.840.113549.1.1.7

Service: MessageDigest, Algorithm: Skein-256-256, Class:

org.bouncycastle.jcajce.provider.digest.Skein\$Digest_256_256

Service: KeyAgreement, Algorithm: ECMQVWITHSHA256CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQVwithSHA256CKDF

Service: SecretKeyFactory, Algorithm: PBKDF2WITHHMACGOST3411, Class:
org.bouncycastle.jcajce.provider.symmetric.PBEPBKDF2\$PBKDF2withGOST3411

Service: KeyAgreement, Algorithm: ECCDHWITHSHA512KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$CDHwithSHA512KDFAndSharedInfo

Service: Cipher, Algorithm: DHIESWITHDESEDE-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.IESCipher\$IESwithDESedeCBC

Service: KeyGenerator, Algorithm: GOST3412-2015, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST3412_2015\$KeyGen

Service: KeyStore, Algorithm: PKCS12-DEF-3DES-40RC2, Class:
org.bouncycastle.jcajce.provider.keystore.pkcs12.PKCS12KeyStoreSpi\$DefPKCS12KeyStore

Service: AlgorithmParameters, Algorithm: XTEA, Class:
org.bouncycastle.jcajce.provider.symmetric.XTEA\$AlgParams

Service: KeyGenerator, Algorithm: HMACSkein-256-160, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HMacKeyGenerator_256_160

Aliases: HMAC-Skein-256-160

Service: Mac, Algorithm: POLY1305-CAMELLIA, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$Poly1305

Aliases: POLY1305CAMELLIA

Service: MessageDigest, Algorithm: MD5, Class:
org.bouncycastle.jcajce.provider.digest.MD5\$Digest

Aliases: 1.2.840.113549.2.5

Service: MessageDigest, Algorithm: MD4, Class:
org.bouncycastle.jcajce.provider.digest.MD4\$Digest

Aliases: 1.2.840.113549.2.4

Service: Signature, Algorithm: SHA256WITHRSA/ISO9796-2, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.ISOSignatureSpi\$SHA256WithRSAEncryption

Aliases: SHA256WithRSA/ISO9796-2

Service: MessageDigest, Algorithm: MD2, Class:
org.bouncycastle.jcajce.provider.digest.MD2\$Digest

Aliases: 1.2.840.113549.2.2

Service: Cipher, Algorithm: 1.2.804.2.1.1.1.1.1.3.2.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CTR512

Service: Cipher, Algorithm: 1.2.804.2.1.1.1.1.1.3.2.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CTR256

Service: KeyGenerator, Algorithm: ZUC-256, Class:
org.bouncycastle.jcajce.provider.symmetric.Zuc\$KeyGen256

Aliases: ZUC-256-128

Service: Cipher, Algorithm: 1.2.804.2.1.1.1.1.1.3.2.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CTR128

Service: AlgorithmParameters, Algorithm: ECGOST3410-2012, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.AlgorithmParametersSpi

Aliases: GOST-3410-2012
Service: MessageDigest, Algorithm: DSTU7564-384, Class:
org.bouncycastle.jcajce.provider.digest.DSTU7564\$Digest384
Service: Cipher, Algorithm: CAMELLIARFC3211WRAP, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$RFC3211Wrap
Service: Mac, Algorithm: POLY1305-CAST6, Class:
org.bouncycastle.jcajce.provider.symmetric.CAST6\$Poly1305
Aliases: POLY1305CAST6
Service: AlgorithmParameterGenerator, Algorithm: CAMELLIA, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$AlgParamGen
Aliases: 1.2.392.200011.61.1.1.1.4
Service: AlgorithmParameters, Algorithm: EC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.AlgorithmParametersSpi
Aliases: 1.3.132.1.14.0
Service: KeyFactory, Algorithm: OID.1.3.6.1.4.1.18227.2.1, Class:
org.bouncycastle.jcajce.provider.asymmetric.COMPOSITE\$KeyFactory
Service: KeyFactory, Algorithm: XDH, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyFactorySpi\$XDH
Aliases: 1.3.101.110
Service: Signature, Algorithm: SHA512WITHECNR, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecNR512
Service: Signature, Algorithm: SHA256WITHRSAANDSHAKE128, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA256withRSAandSHAKE128
Aliases: SHA256WithRSAAndSHAKE128
Service: SecretKeyFactory, Algorithm: TLS12WITHSHA384KDF, Class:
org.bouncycastle.jcajce.provider.symmetric.TLSKDF\$TLS12withSHA384
Service: Mac, Algorithm: HMACSkein-256-256, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HashMac_256_256
Aliases: HMAC-Skein-256-256
Service: Cipher, Algorithm: HC128, Class:
org.bouncycastle.jcajce.provider.symmetric.HC128\$Base
Service: AlgorithmParameters, Algorithm: PKCS12PBE, Class:
org.bouncycastle.jcajce.provider.symmetric.PBEPKCS12\$AlgParams
Aliases: 1.3.6.1.4.1.22554.1.1.2.1.2
Service: KeyAgreement, Algorithm: ECMQVWITHSHA384KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQVwithSHA384KDF
Service: AlgorithmParameters, Algorithm: DH, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.AlgorithmParametersSpi
Aliases: 1.2.840.10046.2.1
Service: Mac, Algorithm: SIPHASH128-2-4, Class:
org.bouncycastle.jcajce.provider.symmetric.SipHash128\$Mac24
Aliases: SIPHASH128
Service: KeyGenerator, Algorithm: TNEPRES-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$TKeyGen
Aliases: TNEPRESGMAC

Service: KeyGenerator, Algorithm: Skein-MAC-1024-512, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMacKeyGenerator_1024_512
Aliases: Skein-MAC1024/512

Service: SecretKeyFactory, Algorithm: PBEWITHSHA256AND192BITAES-CBC-BC,
Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithSHA256And192BitAESBC
Aliases: PBEWITHSHA-256AND192BITAES-CBC-BC

Service: MessageDigest, Algorithm: Skein-256-224, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$Digest_256_224

Service: SecretKeyFactory, Algorithm: PBKDF2, Class:
org.bouncycastle.jcajce.provider.symmetric.PBEPBKDF2\$PBKDF2withUTF8
Aliases: PBKDF2WITHHMACSHA1ANDUTF8

Service: Mac, Algorithm: RC5MAC/CFB8, Class:
org.bouncycastle.jcajce.provider.symmetric.RC5\$CFB8Mac32
Aliases: RC5/CFB8

Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.8.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CCM512

Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.8.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CCM256

Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.8.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CCM128

Service: Cipher, Algorithm: Twofish, Class:
org.bouncycastle.jcajce.provider.symmetric.Twofish\$ECB

Service: Mac, Algorithm: Skein-MAC-1024-512, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMac_1024_512
Aliases: Skein-MAC1024/512

Service: Signature, Algorithm: SM3WITHSM2, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.GMSignatureSpi\$sm3WithSM2
Aliases: 1.2.156.10197.1.501

Service: KeyGenerator, Algorithm: HC128, Class:
org.bouncycastle.jcajce.provider.symmetric.HC128\$KeyGen

Service: KeyAgreement, Algorithm: 1.3.132.1.11.3, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA512KDF
AndSharedInfo

Service: KeyAgreement, Algorithm: 1.3.132.1.11.2, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA384KDF
AndSharedInfo

Service: KeyAgreement, Algorithm: 1.3.132.1.11.1, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA256KDF
AndSharedInfo

Service: KeyAgreement, Algorithm: 1.3.132.1.11.0, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA224KDF
AndSharedInfo

Service: Mac, Algorithm: PBEWITHHMACRIPEMD160, Class:
org.bouncycastle.jcajce.provider.digest.RIPEMD160\$PBEWithHmac

Service: KeyGenerator, Algorithm: HMACSHA3-256, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$KeyGenerator256

Aliases: 2.16.840.1.101.3.4.2.14
Service: KeyStore, Algorithm: PKCS12-3DES-40RC2, Class:
org.bouncycastle.jcajce.provider.keystore.pkcs12.PKCS12KeyStoreSpi\$BCPKCS12KeyStore

Service: Mac, Algorithm: DESMAC/CFB8, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$DESCFB8
Aliases: DES/CFB8

Service: MessageDigest, Algorithm: SM3, Class:
org.bouncycastle.jcajce.provider.digest.SM3\$Digest
Aliases: 1.2.156.10197.1.401

Service: Signature, Algorithm: NONEWITHDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$noneDSA
Aliases: RAWDSA

Service: KeyGenerator, Algorithm: HMACSkein-256-128, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HMacKeyGenerator_256_128
Aliases: HMAC/Skein-256-128

Service: Cipher, Algorithm: AESWRAP, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$Wrap
Aliases: OID.2.16.840.1.101.3.4.1.45
Attributes:
SupportedKeyFormats: RAW
SupportedKeyClasses: javax.crypto.SecretKey

Service: KeyStore, Algorithm: IFIPS, Class:
org.bouncycastle.jcajce.provider.keystore.bc.fks.BcFKSKeyStoreSpi\$StdSharedCompat

Service: Cipher, Algorithm: PBEWITHSHAAND40BITRC2-CBC, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$PBEWithSHAAnd40BitRC2
Aliases: 1.2.840.113549.1.12.1.6

Service: Signature, Algorithm: SHA512(224)WITHRSA/X9.31, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.X931SignatureSpi\$SHA512_224WithRSAEncryption
Aliases: SHA512(224)WithRSA/X9.31

Service: Signature, Algorithm: SHA3-256WITHDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$dsaSha3_256
Aliases: SHA3-256/DSA

Service: Mac, Algorithm: HMACSkein-256-224, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HashMac_256_224
Aliases: HMAC-Skein-256-224

Service: KeyPairGenerator, Algorithm: ELGAMAL, Class:
org.bouncycastle.jcajce.provider.asymmetric.elgamal.KeyPairGeneratorSpi
Aliases: 1.3.14.7.2.1.1

Service: AlgorithmParameterGenerator, Algorithm: DH, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.AlgorithmParameterGeneratorSpi
Aliases: 1.2.840.10046.2.1

Service: AlgorithmParameters, Algorithm: NOEKEON, Class:
org.bouncycastle.jcajce.provider.symmetric.Noekeon\$AlgParams

Service: KeyStore, Algorithm: BouncyCastle, Class:
org.bouncycastle.jcajce.provider.keystore.bc.BcKeyStoreSpi\$BouncyCastleStore

Aliases: BOUNCYCASTLE
Service: Cipher, Algorithm: CAST6, Class:
org.bouncycastle.jcajce.provider.symmetric.CAST6\$ECB
Service: Cipher, Algorithm: CAST5, Class:
org.bouncycastle.jcajce.provider.symmetric.CAST5\$ECB
Aliases: 1.2.840.113533.7.66.10
Service: AlgorithmParameters, Algorithm: ECIES, Class:
org.bouncycastle.jcajce.provider.asymmetric.ies.AlgorithmParametersSpi
Service: Cipher, Algorithm: Tnepres, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$TECB
Service: MessageDigest, Algorithm: BLAKE3-256, Class:
org.bouncycastle.jcajce.provider.digest.Blake3\$Blake3_256
Aliases: 1.3.6.1.4.1.1722.12.2.3.8
Service: Mac, Algorithm: HMACDSTU7564-384, Class:
org.bouncycastle.jcajce.provider.digest.DSTU7564\$HashMac384
Aliases: HMAC-DSTU7564-384
Service: AlgorithmParameterGenerator, Algorithm: SM4, Class:
org.bouncycastle.jcajce.provider.symmetric.SM4\$AlgParamGen
Service: Signature, Algorithm: NONEwithECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDSAnone
Service: AlgorithmParameters, Algorithm: RC6, Class:
org.bouncycastle.jcajce.provider.symmetric.RC6\$AlgParams
Service: Mac, Algorithm: PBEWITHHMACSHA, Class:
org.bouncycastle.jcajce.provider.digest.SHA1\$SHA1Mac
Aliases: 1.3.14.3.2.26
Service: AlgorithmParameters, Algorithm: RC5, Class:
org.bouncycastle.jcajce.provider.symmetric.RC5\$AlgParams
Aliases: RC5-32
Service: Mac, Algorithm: POLY1305-SERPENT, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$Poly1305
Aliases: POLY1305SERPENT
Service: AlgorithmParameters, Algorithm: RC2, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$AlgParams
Service: Mac, Algorithm: HMACRIPEMD160, Class:
org.bouncycastle.jcajce.provider.digest.RIPEMD160\$HashMac
Aliases: HMAC/RIPEMD160
Service: KeyGenerator, Algorithm: Skein-MAC-512-256, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMacKeyGenerator_512_256
Aliases: Skein-MAC512/256
Service: Signature, Algorithm: SHA256WITHDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$dsa256
Aliases: SHA256withDSA
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.42, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: KeyGenerator, Algorithm: HMACSHA3-224, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$KeyGenerator224
Aliases: 2.16.840.1.101.3.4.2.13

Service: KeyGenerator, Algorithm: CAST6, Class:
org.bouncycastle.jcajce.provider.symmetric.CAST6\$KeyGen
Service: AlgorithmParameters, Algorithm: Grainv1, Class:
org.bouncycastle.jcajce.provider.symmetric.Grainv1\$AlgParams
Service: KeyFactory, Algorithm: X448, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyFactorySpi\$X448
Service: KeyGenerator, Algorithm: CAST5, Class:
org.bouncycastle.jcajce.provider.symmetric.CAST5\$KeyGen
Aliases: 1.2.840.113533.7.66.10
Service: Cipher, Algorithm: 1.2.804.2.1.1.1.1.1.3.5.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CBC512
Service: Cipher, Algorithm: 1.2.804.2.1.1.1.1.1.3.5.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CBC256
Service: KeyGenerator, Algorithm: SEED, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$KeyGen
Aliases: OID.1.2.410.200004.1.4
Service: Cipher, Algorithm: 1.2.804.2.1.1.1.1.1.3.5.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CBC128
Service: Mac, Algorithm: SKIPJACKMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.Skipjack\$Mac
Aliases: SKIPJACK
Service: Cipher, Algorithm: DESEDERFC3211WRAP, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$RFC3211
Service: Cipher, Algorithm: DSTU7624-256KW, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$Wrap256
Aliases: DSTU7624-256WRAP
Service: KeyAgreement, Algorithm: DHUWITHSHA512CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHUwithSHA512CK
DF
Service: SecretKeyFactory, Algorithm: PBEWITHSHA1ANDDES, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$PBEWithSHA1KeyFactory
Aliases: PBEWITHSHA1ANDDES-CBC
Service: KeyPairGenerator, Algorithm: OID.1.3.101.113, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyPairGeneratorSpi\$Ed448
Service: Cipher, Algorithm: ECIESWITHSHA256, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA256
Service: KeyPairGenerator, Algorithm: OID.1.3.101.112, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyPairGeneratorSpi\$Ed25519
Service: KeyPairGenerator, Algorithm: OID.1.3.101.111, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyPairGeneratorSpi\$X448
Service: KeyGenerator, Algorithm: HMACSHA384, Class:
org.bouncycastle.jcajce.provider.digest.SHA384\$KeyGenerator
Aliases: HMAC/SHA384
Service: KeyPairGenerator, Algorithm: OID.1.3.101.110, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyPairGeneratorSpi\$X25519
Service: SecretKeyFactory, Algorithm: PBEWITHSHAAND128BITAES-CBC-BC,
Class:

org.bouncycastle.jcajce.provider.symmetric.AES\$PBESWithSHAAnd128BitAESBC
Aliases: PBEWITHSHA1AND128BITAES-BC
Service: KeyGenerator, Algorithm: 1.2.392.200011.61.1.1.3.4, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$KeyGen256
Service: KeyGenerator, Algorithm: 1.2.392.200011.61.1.1.3.3, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$KeyGen192
Service: KeyGenerator, Algorithm: 1.2.392.200011.61.1.1.3.2, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$KeyGen128
Service: Signature, Algorithm: SHAKE128WITHRSAPSS, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHAKE128WithRSA
PSS
Aliases: SHAKE128WITHRSASSA-PSS
Service: KeyFactory, Algorithm: 1.3.6.1.4.1.22554.4.2, Class:
org.bouncycastle.jcajce.provider.asymmetric.EXTERNAL\$KeyFactory
Service: Cipher, Algorithm: PBEWITHSHAAND128BITRC4, Class:
org.bouncycastle.jcajce.provider.symmetric.ARC4\$PBESWithSHAAnd128Bit
Aliases: 1.2.840.113549.1.12.1.1
Service: Signature, Algorithm: SHA512(256)WITHRSAANDMGF1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA512_256withRS
A
Aliases: SHA512(256)WithRSAAndMGF1
Service: Cipher, Algorithm: PBEWITHMD5ANDDES, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$PBESWithMD5
Aliases: OID.1.2.840.113549.1.5.3
Service: Signature, Algorithm: DDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSA
Service: Signature, Algorithm: SHA512(256)WITHRSAANDSHAKE256, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA512_256withRS
AandSHAKE256
Aliases: SHA512(256)withRSAandSHAKE256
Service: KeyAgreement, Algorithm: ECKAEGWITHSHA512KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithSHA51
2KDF
Service: KeyPairGenerator, Algorithm: ECDHC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyPairGeneratorSpi\$ECDHC
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.3.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.3.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.3.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128
Service: KeyStore, Algorithm: IBCFKS-DEF, Class:
org.bouncycastle.jcajce.provider.keystore.bcfks.BcFKSKeyStoreSpi\$DefShared
Service: Cipher, Algorithm: Threefish-1024, Class:
org.bouncycastle.jcajce.provider.symmetric.Threefish\$ECB_1024
Service: Cipher, Algorithm: XTEA, Class:
org.bouncycastle.jcajce.provider.symmetric.XTEA\$ECB

Service: KeyAgreement, Algorithm: XDH, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$XDH
Aliases: 1.3.101.110
Service: Mac, Algorithm: KMAC128, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$KMac128
Aliases: KMAC128
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.22, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: Cipher, Algorithm: RSA/RAW, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.CipherSpi\$NoPadding
Service: Cipher, Algorithm: ECIESWITHSHA1ANDAES-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithAESCBC
Service: Mac, Algorithm: ARIA-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$GMAC
Aliases: ARIAGMAC
Service: Mac, Algorithm: RC5MAC, Class:
org.bouncycastle.jcajce.provider.symmetric.RC5\$Mac32
Aliases: RC5
Service: Mac, Algorithm: Skein-MAC-512-256, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMac_512_256
Aliases: Skein-MAC512/256
Service: X509Store, Algorithm: CRL/LDAP, Class:
org.bouncycastle.jce.provider.X509StoreLDAPCRLs
Service: Mac, Algorithm: PBEWITHHMACSHA1, Class:
org.bouncycastle.jcajce.provider.digest.SHA1\$SHA1Mac
Aliases: 1.3.14.3.2.26
Service: KeyAgreement, Algorithm: DHUWITHSHA224KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHUwithSHA224KD
F
Service: SecretKeyFactory, Algorithm: PBKDF2WITHHMACSHA384, Class:
org.bouncycastle.jcajce.provider.symmetric.PBEPBKDF2\$PBKDF2withSHA384
Service: SecretKeyFactory, Algorithm: PBEWITHHMACSHA1, Class:
org.bouncycastle.jcajce.provider.digest.SHA1\$PBEWithMacKeyFactory
Aliases: 1.3.14.3.2.26
Service: KeyAgreement, Algorithm: 1.3.132.1.14.3, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$CDHwithSHA512KD
FAndSharedInfo
Service: KeyAgreement, Algorithm: 1.3.132.1.14.2, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$CDHwithSHA384KD
FAndSharedInfo
Service: KeyAgreement, Algorithm: 1.3.132.1.14.1, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$CDHwithSHA256KD
FAndSharedInfo
Service: KeyAgreement, Algorithm: 1.3.132.1.14.0, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$CDHwithSHA224KD
FAndSharedInfo
Service: KeyGenerator, Algorithm: Skein-MAC-512-224, Class:

org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMacKeyGenerator_512_224
Aliases: Skein-MAC512/224
Service: Signature, Algorithm: SHA3-512WITHPLAIN-ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecCVDSA3_512
Aliases: SHA3-512/PLAIN-ECDSA
Service: MessageDigest, Algorithm: OID.2.16.840.1.101.3.4.2.9, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$Digest384
Service: MessageDigest, Algorithm: OID.2.16.840.1.101.3.4.2.8, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$Digest256
Service: MessageDigest, Algorithm: OID.2.16.840.1.101.3.4.2.7, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$Digest224
Service: Signature, Algorithm: SHA3-512WITHRSAANDMGF1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA3_512withRSA
Aliases: SHA3-512withRSAandMGF1
Service: KeyPairGenerator, Algorithm: X25519, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyPairGeneratorSpi\$X25519
Service: SecretKeyFactory, Algorithm: PBEWITHMD5AND256BITAES-CBC-
OPENSSL, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithMD5And256BitAESCBCOpenSSL
Service: Mac, Algorithm: HMACRIPEMD128, Class:
org.bouncycastle.jcajce.provider.digest.RIPEMD128\$HashMac
Aliases: HMAC/RIPEMD128
Service: KeyAgreement, Algorithm: OID.1.3.132.1.11.3, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA512KDF
AndSharedInfo
Service: KeyAgreement, Algorithm: OID.1.3.132.1.11.2, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA384KDF
AndSharedInfo
Service: Mac, Algorithm: HMACSHA512/256, Class:
org.bouncycastle.jcajce.provider.digest.SHA512\$HashMacT256
Aliases: HMAC/SHA512/256
Service: KeyAgreement, Algorithm: OID.1.3.132.1.11.1, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA256KDF
AndSharedInfo
Service: KeyAgreement, Algorithm: OID.1.3.132.1.11.0, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA224KDF
AndSharedInfo
Service: AlgorithmParameters, Algorithm: GOST28147, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST28147\$AlgParams
Aliases: GOST-28147
Service: Cipher, Algorithm: OID.1.2.410.200046.1.1.9, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$OFB
Service: Cipher, Algorithm: OID.1.2.410.200046.1.1.8, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$CFB
Service: Cipher, Algorithm: OID.1.2.410.200046.1.1.7, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$CBC

Service: Cipher, Algorithm: OID.1.2.410.200046.1.1.6, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$ECB
Service: Cipher, Algorithm: OID.1.2.410.200046.1.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$OFB
Service: Cipher, Algorithm: OID.1.2.410.200046.1.1.3, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$CFB
Service: Cipher, Algorithm: ElGamal, Class:
org.bouncycastle.jcajce.provider.asymmetric.elgamal.CipherSpi\$NoPadding
Service: Cipher, Algorithm: OID.1.2.410.200046.1.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$CBC
Service: Cipher, Algorithm: OID.1.2.410.200046.1.1.1, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$ECB
Service: Cipher, Algorithm: SM4, Class:
org.bouncycastle.jcajce.provider.symmetric.SM4\$ECB
Service: Cipher, Algorithm: SM2WITHSHA384, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.GMCCipherSpi\$SM2withSha384
Aliases: 1.2.156.10197.1.301.3.2.5
Service: Cipher, Algorithm: SM2, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.GMCCipherSpi\$SM2
Aliases: 1.2.156.10197.1.301.3.2.1
Service: SecureRandom, Algorithm: NONCEANDIV, Class:
org.bouncycastle.jcajce.provider.drbg.DRBG\$NonceAndIV
Service: KeyGenerator, Algorithm: HMACSHA1, Class:
org.bouncycastle.jcajce.provider.digest.SHA1\$KeyGenerator
Aliases: 1.3.6.1.5.5.8.1.2
Service: Signature, Algorithm: RAWRSASSA-PSS, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$nonePSS
Aliases: NONEWITHRSAANDMGF1
Service: SecretKeyFactory, Algorithm: PBEWITHHMACGOST3411, Class:
org.bouncycastle.jcajce.provider.digest.GOST3411\$PBEWithMacKeyFactory
Aliases: 1.2.643.2.2.9
Service: Signature, Algorithm: SHA512WITHECDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$SecDetDSA512
Aliases: SHA512WITHDETECDSA
Service: SecretKeyFactory, Algorithm: PBEWITHSHAAND40BITRC4, Class:
org.bouncycastle.jcajce.provider.symmetric.ARC4\$PBEWithSHAAnd40BitKeyFactory
Aliases: 1.2.840.113549.1.12.1.2
Service: Cipher, Algorithm: OID.1.2.410.200004.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$CBC
Service: Mac, Algorithm: Skein-MAC-512-224, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMac_512_224
Aliases: Skein-MAC512/224
Service: Mac, Algorithm: POLY1305-AES, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$Poly1305
Aliases: POLY1305AES
Service: AlgorithmParameters, Algorithm: SKIPJACK, Class:
org.bouncycastle.jcajce.provider.symmetric.Skipjack\$AlgParams

Service: KeyPairGenerator, Algorithm: ECDHWITHSHA1KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyPairGeneratorSpi\$ECDH
Service: Cipher, Algorithm: DSTU7624KW, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$Wrap
Aliases: DSTU7624WRAP
Service: Cipher, Algorithm: GOST3412-2015/CFB, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST3412_2015\$GCFB
Service: KeyFactory, Algorithm: DSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.KeyFactorySpi
Aliases: DSAWITHSHA1
Service: Signature, Algorithm: ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDSA
Aliases: ECDSAwithSHA1
Service: Cipher, Algorithm: BROKENPBEWITHMD5ANDES, Class:
org.bouncycastle.jce.provider.BrokenJCEBlockCipher\$BrokePBEWithMD5AndDES
Service: KeyGenerator, Algorithm: POLY1305-SEED, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$Poly1305KeyGen
Aliases: POLY1305SEED
Service: Cipher, Algorithm: 1.2.804.2.1.1.1.1.1.3.8.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CCM512
Service: Cipher, Algorithm: 1.2.804.2.1.1.1.1.1.3.8.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CCM256
Service: Cipher, Algorithm: 1.2.804.2.1.1.1.1.1.3.8.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CCM128
Service: KeyAgreement, Algorithm: 1.3.133.16.840.63.0.3, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$CDHwithSHA1KDF
AndSharedInfo
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.9, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192
Service: KeyAgreement, Algorithm: 1.3.133.16.840.63.0.2, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA1KDFAn
dSharedInfo
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.8, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.7, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192
Service: SecretKeyFactory, Algorithm: PBEWITHSHAANDTWOFISH-CBC, Class:
org.bouncycastle.jcajce.provider.symmetric.Twofish\$PBEWithSHAKeyFactory
Service: Mac, Algorithm: PBEWITHHMACSHA384, Class:
org.bouncycastle.jcajce.provider.digest.SHA384\$HashMac
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.6, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192
Service: KeyAgreement, Algorithm: ECCDHWITHSHA224KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$CDHwithSHA224KD
FAndSharedInfo
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128

Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.3, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128
Service: KeyGenerator, Algorithm: 1.2.410.200046.1.1.1, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128
Service: MessageDigest, Algorithm: Skein-512-160, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$Digest_512_160
Service: SecretKeyFactory, Algorithm: ARIA, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyFactory
Aliases: OID.1.2.410.200046.1.1.14
Service: SecretKeyFactory, Algorithm: PBKDF2WITHASCII, Class:
org.bouncycastle.jcajce.provider.symmetric.PBEPBKDF2\$PBKDF2with8BIT
Aliases: PBKDF2WITH8BIT
Service: Cipher, Algorithm: 1.3.14.3.2.7, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$CBC
Service: Signature, Algorithm: SHA256WITHCVC-ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecCVCSHA256
Aliases: 0.4.0.127.0.7.2.2.2.3
Service: AlgorithmParameterGenerator, Algorithm: DESEDE, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$AlgParamGen
Aliases: TDEA
Service: Mac, Algorithm: HMACSHA512/224, Class:
org.bouncycastle.jcajce.provider.digest.SHA512\$HashMacT224
Aliases: HMAC/SHA512/224
Service: Signature, Algorithm: 1.2.840.113549.1.1.10, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$PSSwithRSA
Service: KeyGenerator, Algorithm: KMAC128, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$KeyGenerator256
Aliases: KMAC128
Service: Signature, Algorithm: GOST3411-2012-256WITHECGOST3410-2012-256,
Class:
org.bouncycastle.jcajce.provider.asymmetric.ecgost12.ECGOST2012SignatureSpi256
Aliases: OID.1.2.643.7.1.1.3.2
Service: SecureRandom, Algorithm: DEFAULT, Class:
org.bouncycastle.jcajce.provider.drbg.DRBG\$Default
Service: Mac, Algorithm: SEED-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$GMAC
Aliases: SEEDGMAC
Service: KeyGenerator, Algorithm: HMACSHA3-512, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$KeyGenerator512
Aliases: HMAC/SHA3-512
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.6.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.6.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.6.1, Class:

org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128
Service: Mac, Algorithm: HMACWHIRLPOOL, Class:
org.bouncycastle.jcajce.provider.digest.Whirlpool\$HashMac
Aliases: HMAC-WHIRLPOOL
Service: KeyPairGenerator, Algorithm: ElGamal, Class:
org.bouncycastle.jcajce.provider.asymmetric.elgamal.KeyPairGeneratorSpi
Service: Mac, Algorithm: HMACECCAK288, Class:
org.bouncycastle.jcajce.provider.digest.Keccak\$HashMac288
Aliases: HMAC-KECCAK288
Service: Mac, Algorithm: HMACSHA384, Class:
org.bouncycastle.jcajce.provider.digest.SHA384\$HashMac
Aliases: HMAC/SHA384
Service: KeyStore, Algorithm: FIPS-DEF, Class:
org.bouncycastle.jcajce.provider.keystore.bcfs.BcFksKeyStoreSpi\$DefCompat
Service: Cipher, Algorithm: 1.2.410.200046.1.1.14, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$OFB
Service: Cipher, Algorithm: 1.2.410.200046.1.1.13, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$CFB
Service: Cipher, Algorithm: 1.2.410.200046.1.1.12, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$CBC
Service: Cipher, Algorithm: 1.2.410.200046.1.1.11, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$ECB
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.48, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.47, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: Mac, Algorithm: HMACTIGER, Class:
org.bouncycastle.jcajce.provider.digest.Tiger\$HashMac
Aliases: HMAC-TIGER
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.46, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.45, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.44, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: Signature, Algorithm: RIPEMD160WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$RIPEMD160
Aliases: RIPEMD160WithRSA
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.43, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: KeyGenerator, Algorithm: Grain128, Class:
org.bouncycastle.jcajce.provider.symmetric.Grain128\$KeyGen
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.42, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: AlgorithmParameters, Algorithm: Twofish, Class:
org.bouncycastle.jcajce.provider.symmetric.Twofish\$AlgParams
Service: Signature, Algorithm: RIPEMD128WITHRSA/X9.31, Class:

org.bouncycastle.jcajce.provider.asymmetric.rsa.X931SignatureSpi\$RIPEMD128WithR
SAEncryption
Aliases: RIPEMD128WithRSA/X9.31
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.41, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: Signature, Algorithm: SHA3-384WITHRSAANDMGF1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA3_384withRSA
Aliases: SHA3-384withRSA/PSS
Service: MessageDigest, Algorithm: PARALLELHASH256-512, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$DigestParallelHash256_512
Aliases: PARALLELHASH256
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.2, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: Mac, Algorithm: Skein-MAC-1024-1024, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMac_1024_1024
Aliases: Skein-MAC1024/1024
Service: KeyFactory, Algorithm: ED448, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyFactorySpi\$Ed448
Aliases: 1.3.101.113
Service: Mac, Algorithm: HMACSkein-512-160, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HashMac_512_160
Aliases: HMAC-Skein-512-160
Service: AlgorithmParameterGenerator, Algorithm: CCM, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$AlgParamGenCCM
Aliases: OID.2.16.840.1.101.3.4.1.47
Service: Signature, Algorithm: SHA384WITHRSAANDSHAKE256, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA384withRSAan
dSHAKE256
Aliases: SHA384WithRSAAndSHAKE256
Service: Signature, Algorithm: SHA224WITHRSAANDSHAKE256, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA224withRSAan
dSHAKE256
Aliases: SHA224WithRSAAndSHAKE256
Service: KeyAgreement, Algorithm: ECCDHUWITHSHA512KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHUwithSHA512KD
F
Service: MessageDigest, Algorithm: BLAKE2B-256, Class:
org.bouncycastle.jcajce.provider.digest.Blake2b\$Blake2b256
Aliases: 1.3.6.1.4.1.1722.12.2.1.8
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.1.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512
Service: Signature, Algorithm: SHA3-256WITHPLAIN-ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecCVCDSA3_256
Aliases: SHA3-256WithPLAIN-ECDSA
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.1.1, Class:

org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128
Service: KeyAgreement, Algorithm: OID.1.3.132.1.14.3, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$CDHwithSHA512KDFAndSharedInfo
Service: Cipher, Algorithm: GOST3412-2015/CBC, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST3412_2015\$CBC
Service: KeyPairGenerator, Algorithm: ECMQV, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyPairGeneratorSpi\$ECMQV
Aliases: 1.3.133.16.840.63.0.16
Service: KeyAgreement, Algorithm: OID.1.3.132.1.14.2, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$CDHwithSHA384KDFAndSharedInfo
Service: Signature, Algorithm: SHA3-384WITHPLAIN-ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecCVCDSA3_384
Aliases: SHA3-384/PLAIN-ECDSA
Service: KeyAgreement, Algorithm: OID.1.3.132.1.14.1, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$CDHwithSHA256KDFAndSharedInfo
Service: KeyAgreement, Algorithm: OID.1.3.132.1.14.0, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$CDHwithSHA224KDFAndSharedInfo
Service: Cipher, Algorithm: PBEWITHSHAAND3-KEYTRIPLEDES-CBC, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$PBEWithSHAAndDES3Key
Aliases: 1.2.840.113549.1.12.1.3
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.28, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.27, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: KeyGenerator, Algorithm: Skein-MAC-512-512, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMacKeyGenerator_512_512
Aliases: Skein-MAC512/512
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.26, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.25, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.24, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.23, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.22, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.21, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: MessageDigest, Algorithm: BLAKE2S-160, Class:
org.bouncycastle.jcajce.provider.digest.Blake2s\$Blake2s160
Aliases: 1.3.6.1.4.1.1722.12.2.2.5
Service: MessageDigest, Algorithm: Skein-512-128, Class:

org.bouncycastle.jcajce.provider.digest.Skein\$Digest_512_128
Service: KeyFactory, Algorithm: GOST3410, Class:
org.bouncycastle.jcajce.provider.asymmetric.gost.KeyFactorySpi
Aliases: GOST-3410
Service: KeyGenerator, Algorithm: HMACRIPEMD256, Class:
org.bouncycastle.jcajce.provider.digest.RIPEMD256\$KeyGenerator
Aliases: HMAC/RIPEMD256
Service: Signature, Algorithm: SHA3-256WITHRSAANDMGF1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA3_256withRSA
Aliases: SHA3-256WithRSAAndMGF1
Service: AlgorithmParameters, Algorithm: DSTU7624, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$AlgParams
Service: Mac, Algorithm: HMACECCAK256, Class:
org.bouncycastle.jcajce.provider.digest.Keccak\$HashMac256
Aliases: HMAC-KECCAK256
Service: MessageDigest, Algorithm: RIPEMD320, Class:
org.bouncycastle.jcajce.provider.digest.RIPEMD320\$Digest
Service: Cipher, Algorithm: ECIESWITHSHA512, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA512
Service: Signature, Algorithm: SHA3-384WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$SHA3_384
Aliases: SHA3-384WithRSA
Service: SecretKeyFactory, Algorithm: PBEWITHSHAAND40BITRC2-CBC, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$PBEWithSHAAnd40BitKeyFactory
Aliases: 1.2.840.113549.1.12.1.6
Service: Mac, Algorithm: TNEPRES-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$TSerpentGMAC
Aliases: TNEPRESGMAC
Service: Cipher, Algorithm: IESWITHDESEDE-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.IESCipher\$IESwithDESedeCBC
Service: KeyFactory, Algorithm: SPHINCSPLUS, Class:
org.bouncycastle.pqc.jcajce.provider.sphincsplus.SPHINCSPlusKeyFactorySpi
Aliases: 1.3.6.1.4.1.22554.2.5.2
Service: MessageDigest, Algorithm: HAKA-256, Class:
org.bouncycastle.jcajce.provider.digest.Haraka\$Digest256
Service: Signature, Algorithm: RMD128WITHRSA/X9.31, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.X931SignatureSpi\$RIPEMD128WithR
SAEncryption
Aliases: RMD128withRSA/X9.31
Service: AlgorithmParameters, Algorithm: XSALSA20, Class:
org.bouncycastle.jcajce.provider.symmetric.XSalsa20\$AlgParams
Service: KeyGenerator, Algorithm: HMACECCAK256, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HMacKeyGenerator_512_384
Aliases: HMAC-Skein-512-384
Service: Mac, Algorithm: HMACSHA3-256, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$HashMac256
Aliases: 2.16.840.1.101.3.4.2.14

Service: Mac, Algorithm: RC2MAC, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$CBCMAC
Aliases: RC2

Service: Mac, Algorithm: Skein-MAC-512-512, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMac_512_512
Aliases: Skein-MAC512/512

Service: AlgorithmParameterGenerator, Algorithm: ELGAMAL, Class:
org.bouncycastle.jcajce.provider.asymmetric.elgamal.AlgorithmParameterGeneratorSpi
Aliases: 1.3.14.7.2.1.1

Service: KeyAgreement, Algorithm: 0.4.0.127.0.7.1.1.5.1.1.6, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithRIPEM
D160KDF

Service: Mac, Algorithm: HMACSkein-512-128, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HashMac_512_128
Aliases: HMAC-Skein-512-128

Service: KeyAgreement, Algorithm: 0.4.0.127.0.7.1.1.5.1.1.5, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithSHA51
2KDF

Service: KeyAgreement, Algorithm: 0.4.0.127.0.7.1.1.5.1.1.4, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithSHA38
4KDF

Service: Signature, Algorithm: SHA384WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$SHA384
Aliases: SHA384/RSA

Service: KeyAgreement, Algorithm: 0.4.0.127.0.7.1.1.5.1.1.3, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithSHA25
6KDF

Service: KeyAgreement, Algorithm: 0.4.0.127.0.7.1.1.5.1.1.2, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithSHA22
4KDF

Service: KeyAgreement, Algorithm: 0.4.0.127.0.7.1.1.5.1.1.1, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithSHA1
KDF

Service: KeyAgreement, Algorithm: ECDHWITHSHA384KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA384KDF
AndSharedInfo

Service: Cipher, Algorithm: GOST3412-2015, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST3412_2015\$ECB

Service: AlgorithmParameterGenerator, Algorithm: GOST3410, Class:
org.bouncycastle.jcajce.provider.asymmetric.gost.AlgorithmParameterGeneratorSpi
Aliases: GOST-3410

Service: SecretKeyFactory, Algorithm: TLS10KDF, Class:
org.bouncycastle.jcajce.provider.symmetric.TLSKDF\$TLS10

Service: AlgorithmParameters, Algorithm: SEED, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$AlgParams
Aliases: OID.1.2.410.200004.1.4

Service: KeyStore, Algorithm: BCFKS, Class:

org.bouncycastle.jcajce.provider.keystore.bc.fks.BcFKSKeyStoreSpi\$Std
Service: Cipher, Algorithm: AESWRAPPAD, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$WrapPad
Aliases: OID.2.16.840.1.101.3.4.1.48
Attributes:
SupportedKeyFormats: RAW
SupportedKeyClasses: javax.crypto.SecretKey
Service: Cipher, Algorithm: VMPC-KSA3, Class:
org.bouncycastle.jcajce.provider.symmetric.VMPCKSA3\$Base
Service: KeyAgreement, Algorithm: MQVWITHSHA256CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$MQVwithSHA256C
KDF
Service: SecretKeyFactory, Algorithm: TLS12WITHSHA256KDF, Class:
org.bouncycastle.jcajce.provider.symmetric.TLSKDF\$TLS12withSHA256
Service: Mac, Algorithm: HMACECCAK224, Class:
org.bouncycastle.jcajce.provider.digest.Keccak\$HashMac224
Aliases: HMAC-KECCAK224
Service: KeyAgreement, Algorithm: X25519UWITHSHA256KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X25519UwithSHA
256KDF
Service: MessageDigest, Algorithm: BLAKE2S-128, Class:
org.bouncycastle.jcajce.provider.digest.Blake2s\$Blake2s128
Aliases: 1.3.6.1.4.1.1722.12.2.2.4
Service: X509StreamParser, Algorithm: ATTRIBUTE CERTIFICATE, Class:
org.bouncycastle.jce.provider.X509AttrCertParser
Service: KeyAgreement, Algorithm: ECMQVWITHSHA256KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQVwithSHA256K
DF
Service: KeyGenerator, Algorithm: RC5-64, Class:
org.bouncycastle.jcajce.provider.symmetric.RC5\$KeyGen64
Service: Cipher, Algorithm: ECIESwithSHA256, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA256
Service: KeyGenerator, Algorithm: SERPENT-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$KeyGen
Aliases: SERPENTGMAC
Service: Cipher, Algorithm: CCM, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$CCM
Aliases: OID.2.16.840.1.101.3.4.1.47
Attributes:
SupportedKeyFormats: RAW
SupportedKeyClasses: javax.crypto.SecretKey
Service: KeyAgreement, Algorithm: ECGOST3410, Class:
org.bouncycastle.jcajce.provider.asymmetric.ecgost.KeyAgreementSpi\$ECVKO
Aliases: 1.2.643.2.2.96
Service: CertStore, Algorithm: LDAP, Class:
org.bouncycastle.jce.provider.X509LDAPCertStoreSpi
Aliases: X509LDAP

Service: KeyAgreement, Algorithm: ECKAEGWITHSHA224KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithSHA224KDF

Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.3.10.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512

Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.3.10.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256

Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.3.10.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128

Service: MessageDigest, Algorithm: TUPLEHASH256-512, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$DigestTupleHash256_512

Aliases: TUPLEHASH256

Service: Mac, Algorithm: DESEDEMAC/CFB8, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$DESedeCFB8

Aliases: DESEDE/CFB8

Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.3.1.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$ECB512

Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.3.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$ECB256

Service: Mac, Algorithm: HMACSHA3-224, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$HashMac224

Aliases: 2.16.840.1.101.3.4.2.13

Service: Signature, Algorithm: SHA384WITHRSA/ISO9796-2, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.ISOSignatureSpi\$SHA384WithRSAEncryption

Aliases: SHA384withRSA/ISO9796-2

Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.3.1.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$ECB128

Service: Mac, Algorithm: POLY1305-ARIA, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$Poly1305

Aliases: POLY1305ARIA

Service: Mac, Algorithm: ISO9797ALG3MAC, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$DES9797Alg3

Aliases: ISO9797ALG3

Service: Cipher, Algorithm: ECIESWITHSHA384ANDAES-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA384andAESCBC

Service: KeyAgreement, Algorithm: 1.3.101.111, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X448

Service: KeyAgreement, Algorithm: 1.2.840.113549.1.9.16.3.10, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHwithRFC2631KDF

Service: KeyAgreement, Algorithm: 1.3.101.110, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X25519

Service: CertPathValidator, Algorithm: PKIX, Class:
org.bouncycastle.jce.provider.PKIXCertPathValidatorSpi_8

Service: KeyAgreement, Algorithm: ECKAEGWITHSHA1KDF, Class:

org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithSHA1KDF
Service: KeyStore, Algorithm: PKCS12, Class:
org.bouncycastle.jcajce.provider.keystore.pkcs12.PKCS12KeyStoreSpi\$BCPKCS12KeyStore
Service: AlgorithmParameters, Algorithm: ElGamal, Class:
org.bouncycastle.jcajce.provider.asymmetric.elgamal.AlgorithmParametersSpi
Service: Mac, Algorithm: POLY1305-NOEKEON, Class:
org.bouncycastle.jcajce.provider.symmetric.Noekeon\$Poly1305
Aliases: POLY1305NOEKEON
Service: KeyGenerator, Algorithm: Skein-MAC-256-256, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMacKeyGenerator_256_256
Aliases: Skein-MAC256/256
Service: CertPathBuilder, Algorithm: RFC3281, Class:
org.bouncycastle.jce.provider.PKIXAttrCertPathBuilderSpi
Service: CertPathBuilder, Algorithm: RFC3280, Class:
org.bouncycastle.jce.provider.PKIXCertPathBuilderSpi_8
Service: Cipher, Algorithm: RSA/ISO9796-1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.CipherSpi\$ISO9796d1Padding
Aliases: RSA//ISO9796-1PADDING
Service: Cipher, Algorithm: AESRFC5649WRAP, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$RFC5649Wrap
Service: Signature, Algorithm: SHA3-256WITHECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$SecDSASha3_256
Aliases: SHA3-256WithECDSA
Service: SecretKeyFactory, Algorithm: PBEWITHMD2ANDRC2, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$PBEWithMD2KeyFactory
Aliases: PBEWITHMD2ANDRC2-CBC
Service: KeyAgreement, Algorithm: DHUWITHSHA256CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHUwithSHA256CKDF
Service: Cipher, Algorithm: SKIPJACK, Class:
org.bouncycastle.jcajce.provider.symmetric.Skipjack\$ECB
Service: KeyGenerator, Algorithm: HMAKKECCA384, Class:
org.bouncycastle.jcajce.provider.digest.Keccak\$KeyGenerator384
Aliases: HMAC/KECCA384
Service: KeyGenerator, Algorithm: OID.1.2.392.200011.61.1.1.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$KeyGen256
Service: KeyGenerator, Algorithm: OID.1.2.392.200011.61.1.1.1.3, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$KeyGen192
Service: KeyGenerator, Algorithm: OID.1.2.392.200011.61.1.1.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$KeyGen128
Service: KeyGenerator, Algorithm: 1.2.410.200004.7.1.1.1, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$KeyGen
Service: MessageDigest, Algorithm: GOST3411-2012-256, Class:
org.bouncycastle.jcajce.provider.digest.GOST3411\$Digest2012_256
Aliases: 1.2.643.7.1.1.2.2

Service: AlgorithmParameters, Algorithm: OAEP, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.AlgorithmParametersSpi\$OAEP
Aliases: 1.2.840.113549.1.1.7

Service: SecretKeyFactory, Algorithm: AES, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyFactory
Aliases: 2.16.840.1.101.3.4.2

Service: AlgorithmParameters, Algorithm: HC256, Class:
org.bouncycastle.jcajce.provider.symmetric.HC256\$AlgParams

Service: Signature, Algorithm: SHA3-224WITHECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDSASha3_224
Aliases: 2.16.840.1.101.3.4.3.9

Service: Mac, Algorithm: ZUC-256, Class:
org.bouncycastle.jcajce.provider.symmetric.Zuc\$ZucMac256
Aliases: ZUC-256-128

Service: KeyAgreement, Algorithm: ECMQVWITHSHA1CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQVwithSHA1CKDF

Service: Mac, Algorithm: Skein-MAC-256-256, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMac_256_256
Aliases: Skein-MAC256/256

Service: Signature, Algorithm: SHA384WITHPLAIN-ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecCVCD384
Aliases: SHA384WithPLAIN-ECDSA

Service: KeyAgreement, Algorithm: OID.1.2.840.113549.1.9.16.3.10, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHwithRFC2631KDF

Service: KeyGenerator, Algorithm: Skein-MAC-256-224, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMacKeyGenerator_256_224
Aliases: Skein-MAC256/224

Service: MessageDigest, Algorithm: BLAKE2B-512, Class:
org.bouncycastle.jcajce.provider.digest.Blake2b\$Blake2b512
Aliases: 1.3.6.1.4.1.1722.12.2.1.16

Service: KeyGenerator, Algorithm: POLY1305-SM4, Class:
org.bouncycastle.jcajce.provider.symmetric.SM4\$Poly1305KeyGen
Aliases: POLY1305SM4

Service: MessageDigest, Algorithm: SHA-256, Class:
org.bouncycastle.jcajce.provider.digest.SHA256\$Digest
Aliases: SHA256

Service: Signature, Algorithm: SHA224WITHDETDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSA224

Service: MessageDigest, Algorithm: 1.2.804.2.1.1.1.1.2.2.3, Class:
org.bouncycastle.jcajce.provider.digest.DSTU7564\$Digest512

Service: MessageDigest, Algorithm: 1.2.804.2.1.1.1.1.2.2.2, Class:
org.bouncycastle.jcajce.provider.digest.DSTU7564\$Digest384

Service: MessageDigest, Algorithm: 1.2.804.2.1.1.1.1.2.2.1, Class:
org.bouncycastle.jcajce.provider.digest.DSTU7564\$Digest256

Service: KeyPairGenerator, Algorithm: EDDSA, Class:

org.bouncycastle.jcajce.provider.asymmetric.edec.KeyPairGeneratorSpi\$EdDSA
Aliases: 1.3.101.113
Service: KeyGenerator, Algorithm: HMACDSTU7564-256, Class:
org.bouncycastle.jcajce.provider.digest.DSTU7564\$KeyGenerator256
Aliases: HMAC-DSTU7564-256
Service: Cipher, Algorithm: DSTU7624-128KW, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$Wrap128
Aliases: 1.2.804.2.1.1.1.1.1.3.10.1
Service: AlgorithmParameters, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.5.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$AlgParams
Service: AlgorithmParameters, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.5.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$AlgParams
Service: AlgorithmParameters, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.5.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$AlgParams
Service: Cipher, Algorithm: PBEWITHSHA256AND128BITAES-CBC-BC, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithSHA256AESCBC128
Aliases: PBEWITHSHA-256AND128BITAES-CBC-BC
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.8, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.7, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.6, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.5, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.3, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: Cipher, Algorithm: OID.1.3.6.1.4.1.11591.13.2.44, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$CFB
Service: KeyGenerator, Algorithm: 2.16.840.1.101.3.4.1.1, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: Cipher, Algorithm: OID.1.3.6.1.4.1.11591.13.2.43, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$OFB
Service: AlgorithmParameters, Algorithm: DSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.AlgorithmParametersSpi
Aliases: DSAWITHSHA1
Service: Cipher, Algorithm: OID.1.3.6.1.4.1.11591.13.2.42, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$CBC
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.48, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: Cipher, Algorithm: OID.1.3.6.1.4.1.11591.13.2.41, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$ECB
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.47, Class:

org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: Mac, Algorithm: HMACECCAK512, Class:
org.bouncycastle.jcajce.provider.digest.Keccak\$HashMac512
Aliases: HMAC-KECCAK512
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.46, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.45, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.44, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.43, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.42, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: Cipher, Algorithm: SEED, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$ECB
Aliases: OID.1.2.410.200004.1.4
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.41, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen256
Service: Signature, Algorithm: WhirlpoolWITHRSA/X9.31, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.X931SignatureSpi\$WhirlpoolWithRSA
Encryption
Aliases: WhirlpoolWithRSA/X9.31
Service: KeyAgreement, Algorithm: ECCDHUWITHSHA224CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHUwithSHA224CK
DF
Service: Cipher, Algorithm: 1.3.6.1.4.1.3029.1.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.Blowfish\$CBC
Service: KeyGenerator, Algorithm: VMPC-KSA3, Class:
org.bouncycastle.jcajce.provider.symmetric.VMPCKSA3\$KeyGen
Service: KeyGenerator, Algorithm: HMACSkein-1024-384, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HMacKeyGenerator_1024_384
Aliases: HMAC-Skein-1024-384
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.7.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.7.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256
Service: Cipher, Algorithm: ECIESWITHSHA256ANDAES-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA256andAES
CBC
Service: KeyGenerator, Algorithm: Serpent, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$KeyGen
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.7.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128
Service: KeyPairGenerator, Algorithm: SPHINCSPLUS, Class:
org.bouncycastle.pqc.jcajce.provider.sphincsplus.SPHINCSPlusKeyPairGeneratorSpi
Aliases: 1.3.6.1.4.1.22554.2.5.2

Service: KeyGenerator, Algorithm: Skein-MAC-1024-1024, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMacKeyGenerator_1024_1024
Aliases: Skein-MAC1024/1024

Service: Mac, Algorithm: Skein-MAC-256-224, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMac_256_224
Aliases: Skein-MAC256/224

Service: MessageDigest, Algorithm: HAKA-512, Class:
org.bouncycastle.jcajce.provider.digest.Haka\$Digest512

Service: MessageDigest, Algorithm: 1.0.10118.3.0.55, Class:
org.bouncycastle.jcajce.provider.digest.Whirlpool\$Digest

Service: KeyAgreement, Algorithm: DHUWITHSHA1KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHUwithSHA1KDF

Service: Signature, Algorithm: SHA256WITHDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSA256

Service: Signature, Algorithm: SHA512(256)WITHRSA/ISO9796-2, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.ISOSignatureSpi\$SHA512_256WithRSAEncryption
Aliases: SHA512(256)WithRSA/ISO9796-2

Service: Mac, Algorithm: HMACSkein-1024-384, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HashMac_1024_384
Aliases: HMAC-Skein-1024-384

Service: Mac, Algorithm: HMACSHA3-512, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$HashMac512
Aliases: HMAC/SHA3-512

Service: Signature, Algorithm: 1.3.6.1.5.5.7.6.31, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHAKE256WithRSA
PSS

Service: Signature, Algorithm: GOST3410, Class:
org.bouncycastle.jcajce.provider.asymmetric.gost.SignatureSpi
Aliases: GOST-3410

Service: Signature, Algorithm: 1.3.6.1.5.5.7.6.30, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHAKE128WithRSA
PSS

Service: KeyAgreement, Algorithm: ECCDHUWITHSHA224KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHUwithSHA224KDF

Service: Cipher, Algorithm: 1.2.840.113549.3.7, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$CBC

Service: MessageDigest, Algorithm: SHA3-384, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$Digest384

Service: MessageDigest, Algorithm: SHA-224, Class:
org.bouncycastle.jcajce.provider.digest.SHA224\$Digest
Aliases: SHA224

Service: Mac, Algorithm: HMACSkein-1024-1024, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HashMac_1024_1024
Aliases: HMAC-Skein-1024-1024

Service: Mac, Algorithm: DESEDECMAC, Class:

org.bouncycastle.jcajce.provider.symmetric.DESede\$CMAC
Service: Cipher, Algorithm: 1.2.840.113549.3.2, Class:

org.bouncycastle.jcajce.provider.symmetric.RC2\$CBC
Service: KeyFactory, Algorithm: OID.1.3.6.1.4.1.22554.4.2, Class:

org.bouncycastle.jcajce.provider.asymmetric.EXTERNAL\$KeyFactory
Service: Cipher, Algorithm: OID.1.3.6.1.4.1.11591.13.2.24, Class:

org.bouncycastle.jcajce.provider.symmetric.Serpent\$CFB
Service: Cipher, Algorithm: OID.1.3.6.1.4.1.11591.13.2.23, Class:

org.bouncycastle.jcajce.provider.symmetric.Serpent\$OFB
Service: Cipher, Algorithm: OID.1.3.6.1.4.1.11591.13.2.22, Class:

org.bouncycastle.jcajce.provider.symmetric.Serpent\$CBC
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.28, Class:

org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: Cipher, Algorithm: OID.1.3.6.1.4.1.11591.13.2.21, Class:

org.bouncycastle.jcajce.provider.symmetric.Serpent\$ECB
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.27, Class:

org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.26, Class:

org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.25, Class:

org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.24, Class:

org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.23, Class:

org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.22, Class:

org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.21, Class:

org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen192
Service: MessageDigest, Algorithm: Skein-256-160, Class:

org.bouncycastle.jcajce.provider.digest.Skein\$Digest_256_160
Service: Signature, Algorithm: SHA1WITHDDSA, Class:

org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSA
Service: Signature, Algorithm: SHA1WITHRSAANDSHAKE256, Class:

org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA1withRSAandSHAKE256
Aliases: SHA1withRSAandSHAKE256
Service: Cipher, Algorithm: ECIESwithSHA512andAES-CBC, Class:

org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA512andAES
CBC
Service: MessageDigest, Algorithm: OID.1.2.804.2.1.1.1.2.2.3, Class:

org.bouncycastle.jcajce.provider.digest.DSTU7564\$Digest512
Service: KeyGenerator, Algorithm: RC6, Class:

org.bouncycastle.jcajce.provider.symmetric.RC6\$KeyGen
Service: MessageDigest, Algorithm: OID.1.2.804.2.1.1.1.2.2.2, Class:

org.bouncycastle.jcajce.provider.digest.DSTU7564\$Digest384
Service: KeyGenerator, Algorithm: RC5, Class:

org.bouncycastle.jcajce.provider.symmetric.RC5\$KeyGen32
Aliases: RC5-32
Service: MessageDigest, Algorithm: OID.1.2.804.2.1.1.1.2.2.1, Class:

org.bouncycastle.jcajce.provider.digest.DSTU7564\$Digest256
Service: KeyGenerator, Algorithm: RC2, Class:

org.bouncycastle.jcajce.provider.symmetric.RC2\$KeyGenerator
Service: Cipher, Algorithm: IES, Class:

org.bouncycastle.jcajce.provider.asymmetric.dh.IESCipher\$IES
Service: AlgorithmParameters, Algorithm: DESEDE, Class:

org.bouncycastle.jcajce.provider.symmetric.util.IvAlgorithmParameters
Aliases: TDEA
Service: Cipher, Algorithm: ECIESwithSHA512, Class:

org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA512
Service: Cipher, Algorithm: ELGAMAL, Class:

org.bouncycastle.jcajce.provider.asymmetric.elgamal.CipherSpi\$NoPadding
Aliases: 1.3.14.7.2.1.1
Service: SecretKeyFactory, Algorithm: DES, Class:

org.bouncycastle.jcajce.provider.symmetric.DES\$KeyFactory
Aliases: 1.3.14.3.2.7
Service: KeyAgreement, Algorithm: DHWITHSHA1KDF, Class:

org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHwithSHA1KDF
Service: Signature, Algorithm: ECGOST3410, Class:

org.bouncycastle.jcajce.provider.asymmetric.ecgost.SignatureSpi
Aliases: 1.2.643.2.2.96
Service: KeyFactory, Algorithm: DSTU4145, Class:

org.bouncycastle.jcajce.provider.asymmetric.dstu.KeyFactorySpi
Aliases: 1.2.804.2.1.1.1.3.1.1.1
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.3.10.3, Class:

org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.3.10.2, Class:

org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.3.10.1, Class:

org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128
Service: Cipher, Algorithm: 1.2.804.2.1.1.1.3.1.3, Class:

org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$ECB512
Service: Cipher, Algorithm: 1.2.804.2.1.1.1.3.1.2, Class:

org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$ECB256
Service: Cipher, Algorithm: 1.2.804.2.1.1.1.3.1.1, Class:

org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$ECB128
Service: Cipher, Algorithm: OID.1.3.6.1.4.1.3029.1.1.2, Class:

org.bouncycastle.jcajce.provider.symmetric.Blowfish\$CBC
Service: Cipher, Algorithm: PBEWITHSHAAND256BITAES-CBC-BC, Class:

org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithSHA1AESCBC256
Aliases: PBEWITHSHA1AND256BITAES-CBC-BC
Service: Cipher, Algorithm: OID.2.16.840.1.101.3.4.1.44, Class:

org.bouncycastle.jcajce.provider.symmetric.AES\$CFB
Service: Mac, Algorithm: HMACSKein-256-160, Class:

org.bouncycastle.jcajce.provider.digest.Skein\$HashMac_256_160
Aliases: HMAC-Skein-256-160
Service: Cipher, Algorithm: OID.2.16.840.1.101.3.4.1.43, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$OFB
Service: Cipher, Algorithm: OID.2.16.840.1.101.3.4.1.42, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$CBC
Service: Cipher, Algorithm: OID.2.16.840.1.101.3.4.1.41, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$ECB
Service: Signature, Algorithm: SHA3-384WITHDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSASha3_384
Service: Mac, Algorithm: POLY1305-Twofish, Class:
org.bouncycastle.jcajce.provider.symmetric.Twofish\$Poly1305
Aliases: POLY1305Twofish
Service: Mac, Algorithm: SIPHASH-4-8, Class:
org.bouncycastle.jcajce.provider.symmetric.SipHash\$Mac48
Service: X509StreamParser, Algorithm: CRL, Class:
org.bouncycastle.jce.provider.X509CRLParser
Service: KeyGenerator, Algorithm: NOEKEON-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.Noekeon\$KeyGen
Aliases: NOEKEONGMAC
Service: Cipher, Algorithm: CAMELLIAWRAP, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$Wrap
Aliases: 1.2.392.200011.61.1.1.3.4
Service: SecretKeyFactory, Algorithm: PBKDF2WITHHMACSHA3-384, Class:
org.bouncycastle.jcajce.provider.symmetric.PBEPBKDF2\$PBKDF2withSHA3_384
Service: KeyAgreement, Algorithm: DHUWITHSHA384KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHUwithSHA384KDF
Service: KeyAgreement, Algorithm: ECKAEGWITHRIPEMD160KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithRIPEMD160KDF
Service: Signature, Algorithm: SHA224WITHDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSA224
Service: KeyGenerator, Algorithm: SKIPJACK, Class:
org.bouncycastle.jcajce.provider.symmetric.Skipjack\$KeyGen
Service: KeyAgreement, Algorithm: MQVWITHSHA512CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$MQVwithSHA512CKDF
Service: Signature, Algorithm: SHA512WITHRSAANDSHAKE256, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA512withRSAandSHAKE256
Aliases: SHA512withRSAandSHAKE256
Service: X509Store, Algorithm: CERTIFICATE/COLLECTION, Class:
org.bouncycastle.jce.provider.X509StoreCertCollection
Service: MessageDigest, Algorithm: Skein-256-128, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$Digest_256_128
Service: AlgorithmParameterGenerator, Algorithm: SEED, Class:

org.bouncycastle.jcajce.provider.symmetric.SEED\$AlgParamGen
Aliases: OID.1.2.410.200004.1.4
Service: KeyStore, Algorithm: PKCS12-DEF, Class:
org.bouncycastle.jcajce.provider.keystore.pkcs12.PKCS12KeyStoreSpi\$DefPKCS12KeyStore
Service: Cipher, Algorithm: OID.2.16.840.1.101.3.4.1.24, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$CFB
Service: AlgorithmParameters, Algorithm: CHACHA20-POLY1305, Class:
org.bouncycastle.jcajce.provider.symmetric.ChaCha\$AlgParamsCC1305
Aliases: OID.1.2.840.113549.1.9.16.3.18
Service: Cipher, Algorithm: OID.2.16.840.1.101.3.4.1.23, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$OFB
Service: Cipher, Algorithm: OID.2.16.840.1.101.3.4.1.22, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$CBC
Service: MessageDigest, Algorithm: KECCAK-384, Class:
org.bouncycastle.jcajce.provider.digest.Keccak\$Digest384
Service: Cipher, Algorithm: OID.2.16.840.1.101.3.4.1.21, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$ECB
Service: Signature, Algorithm: SHA3-384WITHRSAANDSHAKE256, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA3_384withRSAandSHAKE256
Aliases: SHA3-384withRSAandSHAKE256
Service: Signature, Algorithm: SHA3-224WITHRSAANDSHAKE256, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA3_224withRSAandSHAKE256
Aliases: SHA3-224withRSAandSHAKE256
Service: AlgorithmParameters, Algorithm: SALSA20, Class:
org.bouncycastle.jcajce.provider.symmetric.Salsa20\$AlgParams
Service: KeyGenerator, Algorithm: ZUC-128, Class:
org.bouncycastle.jcajce.provider.symmetric.Zuc\$KeyGen128
Service: KeyStore, Algorithm: IFIPS-DEF, Class:
org.bouncycastle.jcajce.provider.keystore.bcfks.BcFKSKeyStoreSpi\$DefSharedCompat
Service: MessageDigest, Algorithm: GOST3411-2012-512, Class:
org.bouncycastle.jcajce.provider.digest.GOST3411\$Digest2012_512
Aliases: 1.2.643.7.1.1.2.3
Service: AlgorithmParameters, Algorithm: AES, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$AlgParams
Aliases: 2.16.840.1.101.3.4.2
Service: MessageDigest, Algorithm: DSTU7564-256, Class:
org.bouncycastle.jcajce.provider.digest.DSTU7564\$Digest256
Service: Cipher, Algorithm: Grain128, Class:
org.bouncycastle.jcajce.provider.symmetric.Grain128\$Base
Service: Cipher, Algorithm: RSA/PKCS1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.CipherSpi\$PKCS1v1_5Padding
Aliases: RSA/PKCS1PADDING
Service: KeyGenerator, Algorithm: VMPC, Class:
org.bouncycastle.jcajce.provider.symmetric.VMPC\$KeyGen

Service: Signature, Algorithm: ED25519, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.SignatureSpi\$Ed25519
Aliases: 1.3.101.112

Service: AlgorithmParameters, Algorithm: Threefish-256, Class:
org.bouncycastle.jcajce.provider.symmetric.Threefish\$AlgParams_256

Service: KeyAgreement, Algorithm: ECCDHU, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHUC
Attributes:
SupportedKeyFormats: PKCS#8IX.509
SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey

Service: KeyGenerator, Algorithm: CAMELLIA-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$KeyGen
Aliases: CAMELLIAGMAC

Service: KeyPairGenerator, Algorithm: X448, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyPairGeneratorSpi\$X448

Service: Cipher, Algorithm: RSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.CipherSpi\$NoPadding
Aliases: 1.2.840.113549.1.1.7
Attributes:
SupportedKeyFormats: PKCS#8IX.509
SupportedKeyClasses: javax.crypto.interfaces.RSAPublicKey
javax.crypto.interfaces.RSAPrivateKey

Service: SecretKeyFactory, Algorithm: PBWITHHMACRIPEMD160, Class:
org.bouncycastle.jcajce.provider.digest.RIPEMD160\$PBWithHmacKeyFactory

Service: Signature, Algorithm: SHA512WITHDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSA512

Service: Mac, Algorithm: HMACSkein-256-128, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HashMac_256_128
Aliases: HMAC/Skein-256-128

Service: Cipher, Algorithm: OID.1.2.840.113549.1.9.16.3.6, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$Wrap

Service: KeyGenerator, Algorithm: HMACGOST3411, Class:
org.bouncycastle.jcajce.provider.digest.GOST3411\$KeyGenerator
Aliases: HMAC/GOST3411

Service: Signature, Algorithm: ECGOST3410-2012-256, Class:
org.bouncycastle.jcajce.provider.asymmetric.ecgost12.ECGOST2012SignatureSpi256
Aliases: 1.2.643.7.1.1.1.1

Service: KeyAgreement, Algorithm: MQVWITHSHA512KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$MQVwithSHA512KDF

Service: MessageDigest, Algorithm: TIGER, Class:
org.bouncycastle.jcajce.provider.digest.Tiger\$Digest

Service: Mac, Algorithm: SERPENT-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$SerpentGMAC
Aliases: SERPENTGMAC

Service: SecretKeyFactory, Algorithm: 1.3.6.1.4.1.11591.4.11, Class:

org.bouncycastle.jcajce.provider.symmetric.SCRYPT\$ScryptWithUTF8
Service: KeyPairGenerator, Algorithm: RSASSA-PSS, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.KeyPairGeneratorSpi\$PSS
Aliases: RSAPSS
Service: Signature, Algorithm: SHA3-512WITHECDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$SecDetDSASha3_512
Service: MessageDigest, Algorithm: SHA-512, Class:
org.bouncycastle.jcajce.provider.digest.SHA512\$Digest
Aliases: 2.16.840.1.101.3.4.2.3
Service: KeyAgreement, Algorithm: ECCDHWITHSHA1KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$CDHwithSHA1KDF
AndSharedInfo
Service: KeyGenerator, Algorithm: Skein-MAC-512-160, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMacKeyGenerator_512_160
Aliases: Skein-MAC512/160
Service: KeyAgreement, Algorithm: DHWITHSHA512KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHwithSHA512KDF
Service: MessageDigest, Algorithm: SHA-512/256, Class:
org.bouncycastle.jcajce.provider.digest.SHA512\$DigestT256
Aliases: SHA-512(256)
Service: Cipher, Algorithm: GOST3412-2015/OFB, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST3412_2015\$OFB
Service: KeyAgreement, Algorithm: ECCDHWITHSHA384KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$CDHwithSHA384KD
FAndSharedInfo
Service: Mac, Algorithm: GOST3412MAC, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST3412_2015\$Mac
Aliases: GOST3412-2015
Service: KeyGenerator, Algorithm: HMACDSTU7564-512, Class:
org.bouncycastle.jcajce.provider.digest.DSTU7564\$KeyGenerator512
Aliases: 1.2.804.2.1.1.1.1.2.2.6
Service: Signature, Algorithm: SHA512(224)WITHRSAANDMGF1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA512_224withRS
A
Aliases: SHA512(224)withRSA/PSS
Service: Signature, Algorithm: SHA384WITHDETDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSA384
Service: Signature, Algorithm: DSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$stdDSA
Aliases: DSAWITHSHA1
Service: Cipher, Algorithm: 1.3.6.1.4.1.11591.13.2.44, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$CFB
Service: Cipher, Algorithm: 1.3.6.1.4.1.11591.13.2.43, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$OFB
Service: X509Store, Algorithm: ATTRIBUTE/CERTIFICATE/COLLECTION, Class:
org.bouncycastle.jce.provider.X509StoreAttrCertCollection
Service: Cipher, Algorithm: 1.3.6.1.4.1.11591.13.2.42, Class:

org.bouncycastle.jcajce.provider.symmetric.Serpent\$CBC
Service: Cipher, Algorithm: 1.3.6.1.4.1.11591.13.2.41, Class:

org.bouncycastle.jcajce.provider.symmetric.Serpent\$ECB
Service: KeyAgreement, Algorithm: OID.1.3.101.111, Class:

org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X448
Service: KeyAgreement, Algorithm: OID.1.3.101.110, Class:

org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X25519
Service: Mac, Algorithm: OLDHMACSHA384, Class:

org.bouncycastle.jcajce.provider.digest.SHA384\$OldSHA384
Service: KeyAgreement, Algorithm: ECDHWITHSHA256KDF, Class:

org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA256KDF
AndSharedInfo
Service: Signature, Algorithm: SHA1WITHRSA/X9.31, Class:

org.bouncycastle.jcajce.provider.asymmetric.rsa.X931SignatureSpi\$SHA1WithRSAEncryption
Aliases: SHA1WithRSA/X9.31
Service: KeyGenerator, Algorithm: AES-GMAC, Class:

org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Aliases: AESGMAC
Service: Signature, Algorithm: SHA512(224)WITHRSAANDSHAKE256, Class:

org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA512_224withRSAandSHAKE256
Aliases: SHA512(224)withRSAandSHAKE256
Service: KeyGenerator, Algorithm: DSTU7624, Class:

org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen
Service: Mac, Algorithm: Skein-MAC-512-160, Class:

org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMac_512_160
Aliases: Skein-MAC512/160
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.2.3, Class:

org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.2.2, Class:

org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256
Service: Cipher, Algorithm: DSTU7624-256, Class:

org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$ECB_256
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.2.1, Class:

org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128
Service: Signature, Algorithm: SHA384WITHECNR, Class:

org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecNR384
Service: Mac, Algorithm: SIPHASH128-4-8, Class:

org.bouncycastle.jcajce.provider.symmetric.SipHash128\$Mac48
Service: Cipher, Algorithm: PBEWITHSHA256AND192BITAES-CBC-BC, Class:

org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithSHA256AESCBC192
Aliases: PBEWITHSHA-256AND192BITAES-CBC-BC
Service: KeyGenerator, Algorithm: POLY1305-NOEKEON, Class:

org.bouncycastle.jcajce.provider.symmetric.Noekeon\$Poly1305KeyGen
Aliases: POLY1305NOEKEON
Service: KeyStore, Algorithm: PKCS12-3DES-3DES, Class:

org.bouncycastle.jcajce.provider.keystore.pkcs12.PKCS12KeyStoreSpi\$BCPKCS12KeyStore3DES

Service: Cipher, Algorithm: 1.3.6.1.4.1.11591.13.2.24, Class:

org.bouncycastle.jcajce.provider.symmetric.Serpent\$CFB

Service: Cipher, Algorithm: 1.3.6.1.4.1.11591.13.2.23, Class:

org.bouncycastle.jcajce.provider.symmetric.Serpent\$OFB

Service: Cipher, Algorithm: 1.3.6.1.4.1.11591.13.2.22, Class:

org.bouncycastle.jcajce.provider.symmetric.Serpent\$CBC

Service: Cipher, Algorithm: 1.3.6.1.4.1.11591.13.2.21, Class:

org.bouncycastle.jcajce.provider.symmetric.Serpent\$ECB

Service: KeyGenerator, Algorithm: ARIA-GMAC, Class:

org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen

Aliases: ARIAGMAC

Service: Mac, Algorithm: DESMAC64WITHISO7816-4PADDING, Class:

org.bouncycastle.jcajce.provider.symmetric.DES\$DES64with7816d4

Aliases: DESISO9797ALG1WITHISO7816-4PADDING

Service: Mac, Algorithm: HMACDSTU7564-256, Class:

org.bouncycastle.jcajce.provider.digest.DSTU7564\$HashMac256

Aliases: HMAC-DSTU7564-256

Service: Mac, Algorithm: Shacal-2CMAC, Class:

org.bouncycastle.jcajce.provider.symmetric.Shacal2\$CMAC

Service: MessageDigest, Algorithm: SHA-512/224, Class:

org.bouncycastle.jcajce.provider.digest.SHA512\$DigestT224

Aliases: SHA512224

Service: KeyGenerator, Algorithm: XSALSA20, Class:

org.bouncycastle.jcajce.provider.symmetric.XSalsa20\$KeyGen

Service: Cipher, Algorithm: DHIESWITHAES-CBC, Class:

org.bouncycastle.jcajce.provider.asymmetric.dh.IESCipher\$IESwithAESCBC

Service: KeyGenerator, Algorithm: Skein-MAC-512-128, Class:

org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMacKeyGenerator_512_128

Aliases: Skein-MAC512/128

Service: Cipher, Algorithm: PBEWITHSHA1ANDRC2, Class:

org.bouncycastle.jcajce.provider.symmetric.RC2\$PBEWithSHA1AndRC2

Aliases: OID.1.2.840.113549.1.5.11

Service: KeyAgreement, Algorithm: ECCDHUWITHSHA512CKDF, Class:

org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHUwithSHA512CKDF

Service: X509Store, Algorithm: CERTIFICATE/LDAP, Class:

org.bouncycastle.jce.provider.X509StoreLDAPCerts

Service: Signature, Algorithm: RIPEMD160withRSA/ISO9796-2, Class:

org.bouncycastle.jcajce.provider.asymmetric.rsa.ISOSignatureSpi\$RIPEMD160WithRSAEncryption

Aliases: RIPEMD160WithRSA/ISO9796-2

Service: Cipher, Algorithm: SM2WITHSHA1, Class:

org.bouncycastle.jcajce.provider.asymmetric.ec.GMCipherSpi\$SM2withSha1

Aliases: 1.2.156.10197.1.301.3.2.2

Service: KeyGenerator, Algorithm: SIPHASH128, Class:

org.bouncycastle.jcajce.provider.symmetric.SipHash128\$KeyGen
Aliases: SIPHASH128-4-8
Service: KeyGenerator, Algorithm: CHACHA, Class:
org.bouncycastle.jcajce.provider.symmetric.ChaCha\$KeyGen
Service: KeyGenerator, Algorithm: RC6-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.RC6\$KeyGen
Aliases: RC6GMAC
Service: KeyAgreement, Algorithm: MQVWITHSHA1KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$MQVwithSHA1KDF
Service: AlgorithmParameters, Algorithm: TEA, Class:
org.bouncycastle.jcajce.provider.symmetric.TEA\$AlgParams
Service: AlgorithmParameters, Algorithm: DES, Class:
org.bouncycastle.jcajce.provider.symmetric.util.IvAlgorithmParameters
Aliases: 1.3.14.3.2.7
Service: Mac, Algorithm: POLY1305-SM4, Class:
org.bouncycastle.jcajce.provider.symmetric.SM4\$Poly1305
Aliases: POLY1305SM4
Service: KeyGenerator, Algorithm: HMACSHA256, Class:
org.bouncycastle.jcajce.provider.digest.SHA256\$KeyGenerator
Aliases: HMAC/SHA256
Service: KeyAgreement, Algorithm: X25519WITHSHA256KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X25519withSHA256KDF
Service: KeyAgreement, Algorithm: X25519, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X25519
Service: Signature, Algorithm: DETDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSA
Service: Signature, Algorithm: SHA512(256)WITHRSAANDSHAKE128, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA512_256withRSAandSHAKE128
Aliases: SHA512(256)WithRSAAndSHAKE128
Service: Cipher, Algorithm: Serpent, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$ECB
Service: Signature, Algorithm: EDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.SignatureSpi\$EdDSA
Aliases: 1.3.101.113
Service: KeyGenerator, Algorithm: HMACSkein-1024-1024, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HMacKeyGenerator_1024_1024
Aliases: HMAC-Skein-1024-1024
Service: Signature, Algorithm: SHA3-512WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$SHA3_512
Aliases: SHA3-512/RSA
Service: KeyAgreement, Algorithm: X448, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X448
Service: Mac, Algorithm: DSTU7624GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$GMAC
Service: KeyFactory, Algorithm: RSASSA-PSS, Class:

org.bouncycastle.jcajce.provider.asymmetric.rsa.KeyFactorySpi
Aliases: RSAPSS
Service: KeyAgreement, Algorithm: ECCDHWITHSHA384CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA384CKD
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Service: CertStore, Algorithm: Multi, Class:
org.bouncycastle.jce.provider.MultiCertStoreSpi
Service: Cipher, Algorithm: ARIARFC3211WRAP, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$RFC3211Wrap
Service: KeyGenerator, Algorithm: 1.2.840.113549.3.7, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$KeyGenerator3
Service: MessageDigest, Algorithm: SHAKE128-256, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$DigestShake128_256
Aliases: SHAKE128
Service: SecretKeyFactory, Algorithm: PBEWITHSHAAND256BITAES-CBC-BC,
Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithSHAAnd256BitAESBC
Aliases: PBEWITHSHA1AND256BITAES-CBC-BC
Service: KeyGenerator, Algorithm: 1.2.840.113549.3.2, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$KeyGenerator
Service: Mac, Algorithm: Skein-MAC-512-128, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMac_512_128
Aliases: Skein-MAC512/128
Service: AlgorithmParameters, Algorithm: ELGAMAL, Class:
org.bouncycastle.jcajce.provider.asymmetric.elgamal.AlgorithmParametersSpi
Aliases: 1.3.14.7.2.1.1
Service: SecretKeyFactory, Algorithm: PBKDF2WITHHMACSHA256, Class:
org.bouncycastle.jcajce.provider.symmetric.PBEPBKDF2\$PBKDF2withSHA256
Service: Signature, Algorithm: SHA256WITHSM2, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.GMSignatureSpi\$sha256WithSM2
Aliases: 1.2.156.10197.1.503
Service: Signature, Algorithm: SHA224WITHRSAANDMGF1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA224withRSA
Aliases: SHA224WithRSA/PSS
Service: Signature, Algorithm: SHA256WITHDETDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSA256
Service: KeyPairGenerator, Algorithm: ECGOST3410, Class:
org.bouncycastle.jcajce.provider.asymmetric.ecgost.KeyPairGeneratorSpi
Aliases: 1.2.643.2.2.96
Service: Signature, Algorithm: RMD128WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$RIPEMD128
Aliases: RMD128WithRSAEncryption
Service: KeyGenerator, Algorithm: AESWRAPPAD, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen
Aliases: OID.2.16.840.1.101.3.4.1.48
Service: Cipher, Algorithm: ECIESWITHAES-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithAESCBC

Service: Mac, Algorithm: AESCCMMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$AESCCMMAC
Aliases: 2.16.840.1.101.3.4.1.47

Service: Mac, Algorithm: AESCMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$AESCMAC

Service: Cipher, Algorithm: ZUC-256, Class:
org.bouncycastle.jcajce.provider.symmetric.Zuc\$Zuc256
Aliases: ZUC-256-128

Service: Signature, Algorithm: SHA3-384WITHECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDSASha3_384
Aliases: SHA3-384/ECDSA

Service: Signature, Algorithm: SHA3-512WITHECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDSASha3_512
Aliases: SHA3-512WithECDSA

Service: X509Store, Algorithm: ATTRIBUTECERTIFICATE/LDAP, Class:
org.bouncycastle.jce.provider.X509StoreLDAPAttrCerts

Service: Signature, Algorithm: SHA512WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$SHA512
Aliases: SHA512withRSA

Service: KeyAgreement, Algorithm: ECCDHUWITHSHA1CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHUwithSHA1CKDF

Service: KeyAgreement, Algorithm: ECMQVWITHSHA1KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQVwithSHA1KDF

Service: KeyGenerator, Algorithm: HMACSHA224, Class:
org.bouncycastle.jcajce.provider.digest.SHA224\$KeyGenerator
Aliases: HMAC/SHA224

Service: Cipher, Algorithm: SM2WITHSHA256, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.GMCipherSpi\$SM2withSha256
Aliases: 1.2.156.10197.1.301.3.2.4

Service: Cipher, Algorithm: 2.16.840.1.101.3.4.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$CFB

Service: Cipher, Algorithm: 2.16.840.1.101.3.4.1.3, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$OFB

Service: Cipher, Algorithm: 2.16.840.1.101.3.4.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$CBC

Service: KeyAgreement, Algorithm: ECKAEGWITHSHA384KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithSHA384KDF

Service: Cipher, Algorithm: 2.16.840.1.101.3.4.1.1, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$ECB

Service: MessageDigest, Algorithm: DSTU7564-512, Class:
org.bouncycastle.jcajce.provider.digest.DSTU7564\$Digest512

Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.3.5.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512

Service: KeyAgreement, Algorithm: 1.2.840.113549.1.9.16.3.5, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHwithRFC2631KD

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Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.5.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256
Service: SecretKeyFactory, Algorithm: SCRYPT, Class:
org.bouncycastle.jcajce.provider.symmetric.SCRYPT\$ScryptWithUTF8
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.5.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128
Service: AlgorithmParameters, Algorithm: Threefish-512, Class:
org.bouncycastle.jcajce.provider.symmetric.Threefish\$AlgParams_512
Service: MessageDigest, Algorithm: RIPEMD256, Class:
org.bouncycastle.jcajce.provider.digest.RIPEMD256\$Digest
Aliases: 1.3.36.3.2.3
Service: Signature, Algorithm: SHA3-224WITHPLAIN-ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$SecCVCDSA3_224
Aliases: SHA3-224withPLAIN-ECDSA
Service: KeyGenerator, Algorithm: BLOWFISH, Class:
org.bouncycastle.jcajce.provider.symmetric.Blowfish\$KeyGen
Aliases: 1.3.6.1.4.1.3029.1.1.2
Service: Cipher, Algorithm: 1.2.840.113549.1.9.16.3.6, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$Wrap
Service: Signature, Algorithm: SHA512WITHRSA/ISO9796-2, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.ISOSignatureSpi\$SHA512WithRSAEn
ryption
Aliases: SHA512withRSA/ISO9796-2
Service: Signature, Algorithm: ECGOST3410-2012-512, Class:
org.bouncycastle.jcajce.provider.asymmetric.ecgost12.ECGOST2012SignatureSpi512
Aliases: ECGOST3410-2012-512
Service: SecretKeyFactory, Algorithm: PBKDF2WITHHMACSHA224, Class:
org.bouncycastle.jcajce.provider.symmetric.PBEPBKDF2\$PBKDF2withSHA224
Service: MessageDigest, Algorithm: BLAKE2B-160, Class:
org.bouncycastle.jcajce.provider.digest.Blake2b\$Blake2b160
Aliases: 1.3.6.1.4.1.1722.12.2.1.5
Service: Signature, Algorithm: RMD160WITHRSA/X9.31, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.X931SignatureSpi\$RIPEMD160WithR
SAEncryption
Aliases: RMD160WithRSA/X9.31
Service: KeyAgreement, Algorithm: ECMQVWITHSHA384CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQVwithSHA384C
KDF
Service: Signature, Algorithm: GOST3411WITHDSTU4145, Class:
org.bouncycastle.jcajce.provider.asymmetric.dstu.SignatureSpi
Aliases: GOST3411withDSTU4145
Service: KeyStore, Algorithm: IBCFKS, Class:
org.bouncycastle.jcajce.provider.keystore.bcfks.BcFKSKeyStoreSpi\$StdShared
Service: CertPathBuilder, Algorithm: PKIX, Class:
org.bouncycastle.jce.provider.PKIXCertPathBuilderSpi_8
Service: Signature, Algorithm: GOST3411WITHDSTU4145LE, Class:

org.bouncycastle.jcajce.provider.asymmetric.dstu.SignatureSpiLe
Aliases: OID.1.2.804.2.1.1.1.3.1.1
Service: AlgorithmParameterGenerator, Algorithm: RC2, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$AlgParamGen
Service: AlgorithmParameters, Algorithm: Tnepres, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$TAAlgParams
Service: Mac, Algorithm: PBEWITHHMACSHA256, Class:
org.bouncycastle.jcajce.provider.digest.SHA256\$HashMac
Aliases: PBEWITHHMACSHA-256
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.8, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.7, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.6, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.5, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: Signature, Algorithm: SHA256WITHECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDSA256
Aliases: SHA256/ECDSA
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.3, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: KeyGenerator, Algorithm: OID.2.16.840.1.101.3.4.1.1, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen128
Service: Signature, Algorithm: SHA224WITHRSA/ISO9796-2, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.ISOSignatureSpi\$SHA224WithRSAEn
ryption
Aliases: SHA224withRSA/ISO9796-2
Service: Cipher, Algorithm: ECIES, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIES
Service: KeyGenerator, Algorithm: HMACRIPEMD160, Class:
org.bouncycastle.jcajce.provider.digest.RIPEMD160\$KeyGenerator
Aliases: HMAC/RIPEMD160
Service: KeyAgreement, Algorithm: ECCDHWITHSHA1CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHwithSHA1CKDF
Service: Mac, Algorithm: HMACRIPEMD320, Class:
org.bouncycastle.jcajce.provider.digest.RIPEMD320\$HashMac
Aliases: HMAC-RIPEMD320
Service: Signature, Algorithm: RIPEMD256WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$RIPEMD256
Aliases: RIPEMD256withRSAEncryption
Service: Cipher, Algorithm: SM2WITHSHA224, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.GMCipherSpi\$SM2withSha224

Aliases: 1.2.156.10197.1.301.3.2.3
Service: Signature, Algorithm: SHA512WITHPLAIN-ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecCVDSA512
Aliases: SHA512/PLAIN-ECDSA
Service: MessageDigest, Algorithm: Skein-512-384, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$Digest_512_384
Service: Mac, Algorithm: HMACSHA256, Class:
org.bouncycastle.jcajce.provider.digest.SHA256\$HashMac
Aliases: HMAC/SHA256
Service: Cipher, Algorithm: PBEWITHMD5AND256BITAES-CBC-OPENSSL, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithAESCBC
Service: Cipher, Algorithm: OLDPBEWITHSHAANDTWOFISH-CBC, Class:
org.bouncycastle.jce.provider.BrokenJCEBlockCipher\$OldPBEWithSHAAndTwofish
Service: KeyAgreement, Algorithm: X448WITHSHA512CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X448withSHA512
CKDF
Service: Signature, Algorithm: SHA384WITHCVC-ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecCVDSA384
Aliases: 0.4.0.127.0.7.2.2.2.4
Service: Mac, Algorithm: AES-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$AESGMAC
Aliases: AESGMAC
Service: Signature, Algorithm: SHA224WITHECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDSA224
Aliases: SHA224WithECDSA
Service: Cipher, Algorithm: OID.2.16.840.1.101.3.4.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$CFB
Service: Cipher, Algorithm: OID.2.16.840.1.101.3.4.1.3, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$OFB
Service: Cipher, Algorithm: OID.2.16.840.1.101.3.4.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$CBC
Service: Cipher, Algorithm: OID.2.16.840.1.101.3.4.1.1, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$ECB
Service: KeyGenerator, Algorithm: POLY1305-Twofish, Class:
org.bouncycastle.jcajce.provider.symmetric.Twofish\$Poly1305KeyGen
Aliases: POLY1305Twofish
Service: Cipher, Algorithm: 1.2.840.113549.1.1.7, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.CipherSpi\$OAEPPEpadding
Service: CertPathValidator, Algorithm: RFC3281, Class:
org.bouncycastle.jce.provider.PKIXAttrCertPathValidatorSpi
Service: CertPathValidator, Algorithm: RFC3280, Class:
org.bouncycastle.jce.provider.PKIXCertPathValidatorSpi_8
Service: Cipher, Algorithm: 1.2.840.113549.1.1.1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.CipherSpi\$PKCS1v1_5Padding
Service: SecretKeyFactory, Algorithm: TLS11KDF, Class:
org.bouncycastle.jcajce.provider.symmetric.TLSKDF\$TLS11
Service: Mac, Algorithm: DESMAC, Class:

org.bouncycastle.jcajce.provider.symmetric.DES\$CBCMAC
Aliases: DES
Service: KeyAgreement, Algorithm: MQVWITHSHA224KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$MQVwithSHA224KDF
Service: AlgorithmParameters, Algorithm: GCM, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$AlgParamsGCM
Aliases: OID.2.16.840.1.101.3.4.1.46
Service: AlgorithmParameters, Algorithm: CAMELLIA, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$AlgParams
Aliases: 1.2.392.200011.61.1.1.1.4
Service: Cipher, Algorithm: DSTU7624-512, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$ECB_512
Service: KeyGenerator, Algorithm: POLY1305-CAST6, Class:
org.bouncycastle.jcajce.provider.symmetric.CAST6\$Poly1305KeyGen
Aliases: POLY1305CAST6
Service: KeyFactory, Algorithm: 1.3.6.1.4.1.18227.2.1, Class:
org.bouncycastle.jcajce.provider.asymmetric.COMPOSITE\$KeyFactory
Service: KeyGenerator, Algorithm: NOEKEON, Class:
org.bouncycastle.jcajce.provider.symmetric.Noekeon\$KeyGen
Service: Signature, Algorithm: SHA384WITHRSAANDSHAKE128, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA384withRSAandSHAKE128
Aliases: SHA384withRSAandSHAKE128
Service: SecretKeyFactory, Algorithm: PBEWITHMD5ANDRC2, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$PBEWithMD5KeyFactory
Aliases: PBEWITHMD5ANDRC2-CBC
Service: KeyFactory, Algorithm: ECGOST3410, Class:
org.bouncycastle.jcajce.provider.asymmetric.ecgost.KeyFactorySpi
Aliases: 1.2.643.2.2.96
Service: Signature, Algorithm: SHA224WITHRSAANDSHAKE128, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA224withRSAandSHAKE128
Aliases: SHA224withRSAandSHAKE128
Service: Mac, Algorithm: HMACDSTU7564-512, Class:
org.bouncycastle.jcajce.provider.digest.DSTU7564\$HashMac512
Aliases: 1.2.804.2.1.1.1.1.2.2.6
Service: Signature, Algorithm: SHA224WITHECDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDetDSA224
Aliases: SHA224WITHDETECDSA
Service: Cipher, Algorithm: ECIESwithSHA1andAES-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithAESCBC
Service: KeyAgreement, Algorithm: DHWITHSHA224KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHwithSHA224KDF
Service: Mac, Algorithm: PBEWITHHMACSHA224, Class:
org.bouncycastle.jcajce.provider.digest.SHA224\$HashMac
Service: SecretKeyFactory, Algorithm: PBEWITHHMACTIGER, Class:

org.bouncycastle.jcajce.provider.digest.Tiger\$PBEWithMacKeyFactory
Service: Mac, Algorithm: HMACSkein-512-384, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HashMac_512_384
Aliases: HMAC-Skein-512-384
Service: Mac, Algorithm: RC6-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.RC6\$GMAC
Aliases: RC6GMAC
Service: KeyPairGenerator, Algorithm: GOST3410, Class:
org.bouncycastle.jcajce.provider.asymmetric.gost.KeyPairGeneratorSpi
Aliases: GOST-3410
Service: KeyFactory, Algorithm: ED25519, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyFactorySpi\$Ed25519
Aliases: 1.3.101.112
Service: KeyGenerator, Algorithm: HMACRIPEMD128, Class:
org.bouncycastle.jcajce.provider.digest.RIPEMD128\$KeyGenerator
Aliases: HMAC/RIPEMD128
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.3.8.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512
Service: AlgorithmParameters, Algorithm: PSS, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.AlgorithmParametersSpi\$PSS
Aliases: SHA224withRSA/PSS
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.3.8.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256
Service: AlgorithmParameterGenerator, Algorithm: NOEKEON, Class:
org.bouncycastle.jcajce.provider.symmetric.Noekeon\$AlgParamGen
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.3.8.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128
Service: AlgorithmParameterGenerator, Algorithm: 1.2.804.2.1.1.1.1.3.5.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$AlgParamGen512
Service: AlgorithmParameterGenerator, Algorithm: 1.2.804.2.1.1.1.1.3.5.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$AlgParamGen256
Service: AlgorithmParameterGenerator, Algorithm: 1.2.804.2.1.1.1.1.3.5.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$AlgParamGen128
Service: Mac, Algorithm: HMACSHA224, Class:
org.bouncycastle.jcajce.provider.digest.SHA224\$HashMac
Aliases: HMAC/SHA224
Service: KeyAgreement, Algorithm: ECDHC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHC
Attributes:
SupportedKeyFormats: PKCS#8IX.509
SupportedKeyClasses: java.security.interfaces.ECPublicKey
java.security.interfaces.ECPrivateKey
Service: KeyAgreement, Algorithm: DHUWITHSHA256KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHUwithSHA256KDF
Service: KeyGenerator, Algorithm: HMACSHA512, Class:
org.bouncycastle.jcajce.provider.digest.SHA512\$KeyGenerator

Aliases: HMAC/SHA512
Service: MessageDigest, Algorithm: Skein-1024-384, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$Digest_1024_384
Service: KeyAgreement, Algorithm: DHUWITHSHA1CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$DHUwithSHA1CKDF
Service: KeyFactory, Algorithm: ECDH, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyFactorySpi\$ECDH
Service: Signature, Algorithm: SHA3-512WITHRSAANDSHAKE256, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA3_512withRSA
andSHAKE256
Aliases: SHA3-512WithRSAAndSHAKE256
Service: Cipher, Algorithm: RC6, Class:
org.bouncycastle.jcajce.provider.symmetric.RC6\$ECB
Service: Cipher, Algorithm: RC5, Class:
org.bouncycastle.jcajce.provider.symmetric.RC5\$ECB32
Aliases: RC5-32
Service: Cipher, Algorithm: RC2, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$ECB
Service: Cipher, Algorithm: DESEDE, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$ECB
Aliases: TDEA
Service: Mac, Algorithm: BLOWFISHCMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.Blowfish\$CMAC
Service: Signature, Algorithm: RIPEMD160WITHDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$dsaRMD160
Aliases: RIPEMD160withDSA
Service: KeyGenerator, Algorithm: HMACSkein-512-256, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HMacKeyGenerator_512_256
Aliases: HMAC-Skein-512-256
Service: Signature, Algorithm: SHA256WITHRSA/X9.31, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.X931SignatureSpi\$SHA256WithRSAN
encryption
Aliases: SHA256WithRSA/X9.31
Service: KeyFactory, Algorithm: ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyFactorySpi\$ECDSA
Aliases: ECDSAwithSHA1
Service: Cipher, Algorithm: ETSIKEMWITHSHA256, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESKEMCipher\$KEMwithSHA256
Service: KeyAgreement, Algorithm: ECCDHUWITHSHA384KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHUwithSHA384KD
F
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.3.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.3.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.3.1, Class:

org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128
Service: SecretKeyFactory, Algorithm: PBKDF2WITHHMACSHA512, Class:
org.bouncycastle.jcajce.provider.symmetric.PBEPBKDF2\$PBKDF2withSHA512
Service: Cipher, Algorithm: ECIESWITHSHA384ANDDESEDE-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA384andDESedeCBC
Service: KeyGenerator, Algorithm: Skein-MAC-256-160, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMacKeyGenerator_256_160
Aliases: Skein-MAC256/160
Service: KeyPairGenerator, Algorithm: LMS, Class:
org.bouncycastle.pqc.jcajce.provider.lms.LMSKeyPairGeneratorSpi
Aliases: 1.2.840.113549.1.9.16.3.17
Service: Signature, Algorithm: RSASSA-PSS, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$PSSwithRSA
Aliases: RSAPSS
Service: AlgorithmParameterGenerator, Algorithm: ARIAGCM, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$AlgParamGen
Aliases: OID.1.2.410.200046.1.1.35
Service: KeyPairGenerator, Algorithm: ECIES, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyPairGeneratorSpi\$ECDH
Service: AlgorithmParameters, Algorithm: Serpent, Class:
org.bouncycastle.jcajce.provider.symmetric.Serpent\$AlgParams
Service: Cipher, Algorithm: RSA/OAEP, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.CipherSpi\$OAEPpadding
Aliases: RSA/OAEPpadding
Service: AlgorithmParameters, Algorithm: BLOWFISH, Class:
org.bouncycastle.jcajce.provider.symmetric.Blowfish\$AlgParams
Aliases: 1.3.6.1.4.1.3029.1.1.2
Service: KeyStore, Algorithm: FIPS, Class:
org.bouncycastle.jcajce.provider.keystore.bcfks.BcFKSKeyStoreSpi\$StdCompat
Service: AlgorithmParameterGenerator, Algorithm: CAST5, Class:
org.bouncycastle.jcajce.provider.symmetric.CAST5\$AlgParamGen
Aliases: 1.2.840.113533.7.66.10
Service: Cipher, Algorithm: DHIESwithAES-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.IESCipher\$IESwithAESCBC
Service: Signature, Algorithm: WhirlpoolWITHRSA/ISO9796-2, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.ISOSignatureSpi\$WhirlpoolWithRSAEncryption
Aliases: WhirlpoolWithRSA/ISO9796-2
Service: Signature, Algorithm: SHA256WITHPLAIN-ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecCVCDSA256
Aliases: SHA256withPLAIN-ECDSA
Service: Signature, Algorithm: SHA224WITHPLAIN-ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecCVCDSA224
Aliases: SHA224WithPLAIN-ECDSA
Service: KeyGenerator, Algorithm: SEED-CMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$KeyGen

Aliases: SEEDCMAC
Service: CertificateFactory, Algorithm: X.509, Class:
org.bouncycastle.jcajce.provider.asymmetric.x509.CertificateFactory
Aliases: X509
Service: KeyStore, Algorithm: BCPKCS12, Class:
org.bouncycastle.jcajce.provider.keystore.pkcs12.PKCS12KeyStoreSpi\$BCPKCS12KeyStore
Service: Cipher, Algorithm: SM2WITHSHA512, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.GMCCipherSpi\$SM2withSha512
Aliases: 1.2.156.10197.1.301.3.2.6
Service: SecretKeyFactory, Algorithm: PBEWITHSHA256AND256BITAES-CBC-BC, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithSHA256And256BitAESBC
Aliases: PBEWITHSHA-256AND256BITAES-BC
Service: KeyGenerator, Algorithm: HMACWHIRLPOOL, Class:
org.bouncycastle.jcajce.provider.digest.Whirlpool\$KeyGenerator
Aliases: HMAC-WHIRLPOOL
Service: KeyFactory, Algorithm: X.509, Class:
org.bouncycastle.jcajce.provider.asymmetric.x509.KeyFactory
Aliases: X509
Service: KeyGenerator, Algorithm: HMAKKECCAK288, Class:
org.bouncycastle.jcajce.provider.digest.Keccak\$KeyGenerator288
Aliases: HMAC-KECCAK288
Service: Signature, Algorithm: SHA3-384WITHDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$dsaSha3_384
Aliases: SHA3-384withDSA
Service: SecretKeyFactory, Algorithm: OID.2.16.840.1.101.3.4.1, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyFactory
Service: AlgorithmParameters, Algorithm: ZUC-256, Class:
org.bouncycastle.jcajce.provider.symmetric.Zuc\$AlgParams
Aliases: ZUC-256-128
Service: Mac, Algorithm: ISO9797ALG3WITHISO7816-4PADDING, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$DES9797Alg3with7816d4
Aliases: ISO9797ALG3MACWITHISO7816-4PADDING
Service: Mac, Algorithm: Skein-MAC-256-160, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMac_256_160
Aliases: Skein-MAC256/160
Service: KeyAgreement, Algorithm: ECCDHWITHSHA256KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$CDHwithSHA256KDFAndSharedInfo
Service: KeyGenerator, Algorithm: HMACSkein-512-224, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HMacKeyGenerator_512_224
Aliases: HMAC-Skein-512-224
Service: Cipher, Algorithm: VMPC, Class:
org.bouncycastle.jcajce.provider.symmetric.VMPC\$Base
Service: KeyAgreement, Algorithm: X448UWITHSHA512KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X448UwithSHA51

2KDF

Service: Signature, Algorithm: SHA3-256WITHRSAANDSHAKE256, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA3_256withRSA
andSHAKE256

Aliases: SHA3-256WithRSAAndSHAKE256

Service: Signature, Algorithm: SHA3-224WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$SHA3_224

Aliases: SHA3-224WithRSAEncryption

Service: AlgorithmParameters, Algorithm: RIJNDAEL, Class:
org.bouncycastle.jcajce.provider.symmetric.Rijndael\$AlgParams

Service: Mac, Algorithm: ZUC-256-64, Class:
org.bouncycastle.jcajce.provider.symmetric.Zuc\$ZucMac256_64

Service: KeyAgreement, Algorithm: X25519WITHSHA512CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X25519withSHA5
12CKDF

Service: KeyGenerator, Algorithm: HMACGOST3411-2012-256, Class:
org.bouncycastle.jcajce.provider.digest.GOST3411\$KeyGenerator2012_256

Aliases: HMAC/GOST3411-2012-256

Service: Cipher, Algorithm: GOST28147, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST28147\$ECB

Aliases: GOST-28147

Service: KeyGenerator, Algorithm: Skein-MAC-256-128, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMacKeyGenerator_256_128

Aliases: Skein-MAC256/128

Service: KeyGenerator, Algorithm: ARIA, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen

Aliases: OID.1.2.410.200046.1.1.14

Service: Signature, Algorithm: SHA384WITHDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$dsa384

Aliases: SHA384withDSA

Service: KeyAgreement, Algorithm: ECCDHUWITHSHA256CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$DHUwithSHA256CK
DF

Service: MessageDigest, Algorithm: PARALLELHASH128-256, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$DigestParallelHash128_256

Aliases: PARALLELHASH128

Service: Mac, Algorithm: PBEWITHHMACSHA512, Class:
org.bouncycastle.jcajce.provider.digest.SHA512\$HashMac

Service: KeyGenerator, Algorithm: Skein-MAC-1024-384, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMacKeyGenerator_1024_384

Aliases: Skein-MAC1024/384

Service: Signature, Algorithm: SHA3-256WITHDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSASha3_256

Service: Signature, Algorithm: SHA512(256)WITHRSA/X9.31, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.X931SignatureSpi\$SHA512_256WithR
SAEncryption

Aliases: SHA512(256)WithRSA/X9.31

Service: Signature, Algorithm: SHA224WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$SHA224
Aliases: 1.2.840.113549.1.1.14

Service: Mac, Algorithm: Skein-MAC-1024-384, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMac_1024_384
Aliases: Skein-MAC1024/384

Service: Signature, Algorithm: SHA512WITHCVC-ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$SecCVCDSA512
Aliases: 0.4.0.127.0.7.2.2.2.5

Service: KeyGenerator, Algorithm: HMACKECCAK256, Class:
org.bouncycastle.jcajce.provider.digest.Keccak\$KeyGenerator256
Aliases: HMAC-KECCAK256

Service: SecretKeyFactory, Algorithm: PBEWITHMD2ANDDES, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$PBEWithMD2KeyFactory
Aliases: PBEWITHMD2ANDDES-CBC

Service: Mac, Algorithm: HMACSHA512, Class:
org.bouncycastle.jcajce.provider.digest.SHA512\$HashMac
Aliases: HMAC/SHA512

Service: KeyPairGenerator, Algorithm: ED448, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyPairGeneratorSpi\$Ed448
Aliases: 1.3.101.113

Service: KeyGenerator, Algorithm: HMACSHA512/256, Class:
org.bouncycastle.jcajce.provider.digest.SHA512\$KeyGeneratorT256
Aliases: HMAC/SHA512/256

Service: MessageDigest, Algorithm: Tiger, Class:
org.bouncycastle.jcajce.provider.digest.Tiger\$Digest

Service: Cipher, Algorithm: DSTU7624, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$ECB_128

Service: Signature, Algorithm: SHA224WITHCVC-ECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$SecCVCDSA224
Aliases: 0.4.0.127.0.7.2.2.2.2

Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.3.3.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CFB512

Service: Mac, Algorithm: Threefish-512CMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.Threefish\$CMAC_512

Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.3.3.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CFB256

Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.3.3.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CFB128

Service: Mac, Algorithm: ZUC-128, Class:
org.bouncycastle.jcajce.provider.symmetric.Zuc\$ZucMac128

Service: AlgorithmParameters, Algorithm: HC128, Class:
org.bouncycastle.jcajce.provider.symmetric.HC128\$AlgParams

Service: Mac, Algorithm: DESWITHISO9797, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$DES9797Alg3
Aliases: DESISO9797MAC

Service: KeyGenerator, Algorithm: Twofish, Class:

org.bouncycastle.jcajce.provider.symmetric.Twofish\$KeyGen
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.6.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.6.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256
Service: KeyGenerator, Algorithm: AES, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$KeyGen
Aliases: 2.16.840.1.101.3.4.2
Service: KeyGenerator, Algorithm: 1.2.804.2.1.1.1.1.1.3.6.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128
Service: KeyPairGenerator, Algorithm: ECGOST3410-2012, Class:
org.bouncycastle.jcajce.provider.asymmetric.ecgost12.KeyPairGeneratorSpi
Aliases: GOST-3410-2012
Service: Mac, Algorithm: Skein-MAC-256-128, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$SkeinMac_256_128
Aliases: Skein-MAC256/128
Service: Cipher, Algorithm: RSA/2, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.CipherSpi\$PKCS1v1_5Padding_Public
Only
Service: Signature, Algorithm: OID.1.2.840.113549.1.1.10, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$PSSwithRSA
Service: Cipher, Algorithm: RSA/1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.CipherSpi\$PKCS1v1_5Padding_Private
Only
Service: Mac, Algorithm: ZUC-256-32, Class:
org.bouncycastle.jcajce.provider.symmetric.Zuc\$ZucMac256_32
Service: SecretKeyFactory, Algorithm: PBKDF-OPENSSL, Class:
org.bouncycastle.jcajce.provider.symmetric.OpenSSLPBKDF\$PBKDF
Service: X509StreamParser, Algorithm: CERTIFICATE, Class:
org.bouncycastle.jce.provider.X509CertParser
Service: Signature, Algorithm: SHA512WITHRSAANDMGF1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA512withRSA
Aliases: SHA512withRSASSA-PSS
Service: Cipher, Algorithm: XSALSA20, Class:
org.bouncycastle.jcajce.provider.symmetric.XSalsa20\$Base
Service: KeyPairGenerator, Algorithm: RSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.KeyPairGeneratorSpi
Aliases: 1.2.840.113549.1.1.7
Service: KeyAgreement, Algorithm: ECMQV, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQV
Aliases: 1.3.133.16.840.63.0.16
Service: Signature, Algorithm: GOST3411-2012-512WITHECGOST3410-2012-512,
Class:
org.bouncycastle.jcajce.provider.asymmetric.ecgost12.ECGOST2012SignatureSpi512
Aliases: OID.1.2.643.7.1.1.3.3
Service: Mac, Algorithm: DSTU7624-128GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$GMAC128

Aliases: 1.2.804.2.1.1.1.1.1.3.7.1
Service: X509StreamParser, Algorithm: CERTIFICATEPAIR, Class:
org.bouncycastle.jce.provider.X509CertPairParser
Service: AlgorithmParameters, Algorithm: ECGOST3410, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.AlgorithmParametersSpi
Aliases: 1.2.643.2.2.96
Service: KeyGenerator, Algorithm: SM4-CMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.SM4\$KeyGen
Aliases: SM4CMAC
Service: Mac, Algorithm: RC2MAC/CFB8, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$CFB8MAC
Aliases: RC2/CFB8
Service: SecretKeyFactory, Algorithm: PBEWITHHMACSHA256, Class:
org.bouncycastle.jcajce.provider.digest.SHA256\$PBEWithMacKeyFactory
Aliases: PBEWITHHMACSHA-256
Service: Signature, Algorithm: SHA384WITHECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$SecDetDSA384
Aliases: SHA384WITHDETECDSA
Service: SecretKeyFactory, Algorithm: PBEWITHMD5AND128BITAES-CBC-
OPENSSL, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithMD5And128BitAESCBCOpenSSL
Service: Mac, Algorithm: DSTU7624-512GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$GMAC512
Aliases: 1.2.804.2.1.1.1.1.1.3.7.3
Service: Signature, Algorithm: RMD160WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$RIPEMD160
Aliases: RMD160WithRSA
Service: Cipher, Algorithm: CAMELLIA, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$ECB
Aliases: 1.2.392.200011.61.1.1.1.4
Service: KeyAgreement, Algorithm: X448WITHSHA512KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X448withSHA512KDF
Service: KeyGenerator, Algorithm: HMACECCAK224, Class:
org.bouncycastle.jcajce.provider.digest.Keccak\$KeyGenerator224
Aliases: HMAC-KECCAK224
Service: KeyGenerator, Algorithm: OID.1.2.392.200011.61.1.1.3.4, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$KeyGen256
Service: KeyGenerator, Algorithm: OID.1.2.392.200011.61.1.1.3.3, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$KeyGen192
Service: KeyGenerator, Algorithm: HMACSHA512/224, Class:
org.bouncycastle.jcajce.provider.digest.SHA512\$KeyGeneratorT224
Aliases: HMAC/SHA512/224
Service: KeyGenerator, Algorithm: OID.1.2.392.200011.61.1.1.3.2, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$KeyGen128
Service: Signature, Algorithm: SHA3-224WITHDDSA, Class:

org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSASha3_224
Service: Cipher, Algorithm: RC2WRAP, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$Wrap
Aliases: OID.1.2.840.113549.1.9.16.3.7
Service: Cipher, Algorithm: PBEWITHSHAAND40BITRC4, Class:
org.bouncycastle.jcajce.provider.symmetric.ARC4\$PBEWithSHAAnd40Bit
Aliases: 1.2.840.113549.1.12.1.2
Service: KeyPairGenerator, Algorithm: EC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyPairGeneratorSpi\$EC
Aliases: 1.3.132.1.14.0
Service: SecretKeyFactory, Algorithm: SEED, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$KeyFactory
Aliases: OID.1.2.410.200004.1.4
Service: KeyGenerator, Algorithm: SHACAL-2, Class:
org.bouncycastle.jcajce.provider.symmetric.Shacal2\$KeyGen
Service: AlgorithmParameters, Algorithm: CAST6, Class:
org.bouncycastle.jcajce.provider.symmetric.CAST6\$AlgParams
Service: AlgorithmParameters, Algorithm: CAST5, Class:
org.bouncycastle.jcajce.provider.symmetric.CAST5\$AlgParams
Aliases: 1.2.840.113533.7.66.10
Service: KeyPairGenerator, Algorithm: DH, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyPairGeneratorSpi
Aliases: 1.2.840.10046.2.1
Service: KeyGenerator, Algorithm: HMACSkein-512-512, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HMacKeyGenerator_512_512
Aliases: HMAC/Skein-512-512
Service: KeyGenerator, Algorithm: POLY1305-ARIA, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$Poly1305KeyGen
Aliases: POLY1305ARIA
Service: Cipher, Algorithm: ECIESWITHSHA512ANDDESEDE-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA512andDES
edeCBC
Service: Signature, Algorithm: SHA3-224WITHRSAANDMGF1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA3_224withRSA
Aliases: SHA3-224withRSASSA-PSS
Service: Cipher, Algorithm: ECIESwithSHA384andDESEDE-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithSHA384andDES
edeCBC
Service: MessageDigest, Algorithm: SHA3-256, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$Digest256
Service: KeyGenerator, Algorithm: ARC4, Class:
org.bouncycastle.jcajce.provider.symmetric.ARC4\$KeyGen
Aliases: RC4
Service: SecretKeyFactory, Algorithm: TLS12WITHSHA512KDF, Class:
org.bouncycastle.jcajce.provider.symmetric.TLSKDF\$TLS12withSHA512
Service: KeyAgreement, Algorithm: ECKAEGWITHSHA256KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$ECKAEGwithSHA25

6KDF

Service: Signature, Algorithm: SHAKE128WITHECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDSAShake128

Aliases: SHAKE128WithECDSA

Service: KeyGenerator, Algorithm: Threefish-256, Class:
org.bouncycastle.jcajce.provider.symmetric.Threefish\$KeyGen_256

Service: KeyFactory, Algorithm: ECDHC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyFactorySpi\$ECDHC

Service: SecretKeyFactory, Algorithm: PBKDF2WITHHMACSM3, Class:
org.bouncycastle.jcajce.provider.symmetric.PBEPBKDF2\$PBKDF2withSM3

Service: KeyAgreement, Algorithm: ECMQVWITHSHA512KDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQVwithSHA512KDF

Service: AlgorithmParameters, Algorithm: PBKDF2, Class:
org.bouncycastle.jcajce.provider.symmetric.PBEPBKDF2\$AlgParams

Aliases: PBKDF2WITHHMACSHA1ANDUTF8

Service: Signature, Algorithm: SHA1WITHRSAANDSHAKE128, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA1withRSAandSHAKE128

Aliases: SHA1WithRSAAndSHAKE128

Service: AlgorithmParameters, Algorithm: PBKDF1, Class:
org.bouncycastle.jcajce.provider.symmetric.PBEPBKDF1\$AlgParams

Aliases: 1.2.840.113549.1.5.1

Service: Cipher, Algorithm: GOST3412-2015/CFB8, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST3412_2015\$GCFB8

Service: AlgorithmParameters, Algorithm: SM4, Class:
org.bouncycastle.jcajce.provider.symmetric.SM4\$AlgParams

Service: Signature, Algorithm: SHA3-512WITHDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.DSASigner\$detDSASha3_512

Service: Signature, Algorithm: SHA512(256)WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$SHA512_256

Aliases: SHA512(256)/RSA

Service: Cipher, Algorithm: ECIESwithSHA1andDESEDE-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithDESedeCBC

Service: Signature, Algorithm: GOST3411WITHECGOST3410, Class:
org.bouncycastle.jcajce.provider.asymmetric.ecgost.SignatureSpi

Aliases: GOST3411WithECGOST3410

Service: KeyGenerator, Algorithm: GOST28147, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST28147\$KeyGen

Aliases: GOST-28147

Service: MessageDigest, Algorithm: KECCAK-288, Class:
org.bouncycastle.jcajce.provider.digest.Keccak\$Digest288

Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.6.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$OFB512

Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.6.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$OFB256

Service: Cipher, Algorithm: OID.1.2.804.2.1.1.1.1.1.3.6.1, Class:

org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$OFB128
Service: Cipher, Algorithm: CHACHA20-POLY1305, Class:
org.bouncycastle.jcajce.provider.symmetric.ChaCha\$BaseCC20P1305
Aliases: OID.1.2.840.113549.1.9.16.3.18
Service: Cipher, Algorithm: SM2WITHMD5, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.GMCipherSpi\$SM2withMD5
Aliases: 1.2.156.10197.1.301.3.2.11
Service: KeyAgreement, Algorithm: X448WITHSHA256CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyAgreementSpi\$X448withSHA256
CKDF
Service: KeyGenerator, Algorithm: TEA, Class:
org.bouncycastle.jcajce.provider.symmetric.TEA\$KeyGen
Service: KeyGenerator, Algorithm: DES, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$KeyGenerator
Aliases: 1.3.14.3.2.7
Service: Cipher, Algorithm: ARIAGCM, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$GCM
Aliases: OID.1.2.410.200046.1.1.35
Service: Signature, Algorithm: ECDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDetDSA
Aliases: DETECDSA
Service: Cipher, Algorithm: 2.5.8.1.1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.CipherSpi\$PKCS1v1_5Padding
Service: Cipher, Algorithm: BLOWFISH, Class:
org.bouncycastle.jcajce.provider.symmetric.Blowfish\$ECB
Aliases: 1.3.6.1.4.1.3029.1.1.2
Service: KeyAgreement, Algorithm: DH, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi
Aliases: 1.2.840.10046.2.1
Attributes:
SupportedKeyFormats: PKCS#8IX.509
SupportedKeyClasses: javax.crypto.interfaces.DHPublicKey
javax.crypto.interfaces.DHPrivateKey
Service: Cipher, Algorithm: SEEDWRAP, Class:
org.bouncycastle.jcajce.provider.symmetric.SEED\$Wrap
Aliases: SEEDKW
Service: Signature, Algorithm: SHA3-256WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$SHA3_256
Aliases: SHA3-256withRSA
Service: Cipher, Algorithm: OID.1.2.840.113549.1.1.7, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.CipherSpi\$OAEP
Padding
Service: MessageDigest, Algorithm: SHA3-224, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$Digest224
Service: Cipher, Algorithm: OID.1.2.840.113549.1.1.1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.CipherSpi\$PKCS1v1_5Padding
Service: Mac, Algorithm: SKIPJACKMAC/CFB8, Class:
org.bouncycastle.jcajce.provider.symmetric.Skipjack\$MacCFB8

Aliases: SKIPJACK/CFB8
Service: KeyFactory, Algorithm: EXTERNAL, Class:
org.bouncycastle.jcajce.provider.asymmetric.EXTERNAL\$KeyFactory
Service: Mac, Algorithm: VMPCMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.VMPC\$Mac
Aliases: VMPC
Service: SecretKeyFactory, Algorithm: PBEWITHMD5AND192BITAES-CBC-
OPENSSL, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$PBEWithMD5And192BitAESCBCOpenSSL
Service: SecretKeyFactory, Algorithm: PBKDF2WITHHMACSHA3-256, Class:
org.bouncycastle.jcajce.provider.symmetric.PBEPBKDF2\$PBKDF2withSHA3_256
Service: Cipher, Algorithm: ECIESWITHSHA1ANDDESEDE-CBC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIESwithDESedeCBC
Service: KeyGenerator, Algorithm: HMACGOST3411-2012-512, Class:
org.bouncycastle.jcajce.provider.digest.GOST3411\$KeyGenerator2012_512
Aliases: HMAC/GOST3411-2012-512
Service: Signature, Algorithm: SHA256WITHRSAANDSHAKE256, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA256withRSAandSHAKE256
Aliases: SHA256withRSAandSHAKE256
Service: Cipher, Algorithm: ECIESWITHSHA1, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.IESCipher\$ECIES
Service: Cipher, Algorithm: HC256, Class:
org.bouncycastle.jcajce.provider.symmetric.HC256\$Base
Service: Signature, Algorithm: SHA256WITHECDDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDetDSA256
Aliases: SHA256WITHDETECDSA
Service: KeyAgreement, Algorithm: MQVWITHSHA384CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyAgreementSpi\$MQVwithSHA384CKDF
Service: KeyFactory, Algorithm: LMS, Class:
org.bouncycastle.pqc.jcajce.provider.lms.LMSKeyFactorySpi
Aliases: 1.2.840.113549.1.9.16.3.17
Service: KeyGenerator, Algorithm: POLY1305-RC6, Class:
org.bouncycastle.jcajce.provider.symmetric.RC6\$Poly1305KeyGen
Aliases: POLY1305RC6
Service: Signature, Algorithm: SHA512WITHRSAANDSHAKE128, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA512withRSAandSHAKE128
Aliases: SHA512WithRSAandSHAKE128
Service: Signature, Algorithm: SHA256WITHRSAANDMGF1, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA256withRSA
Aliases: SHA256WITHRSASSA-PSS
Service: Signature, Algorithm: SHA384WITHECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDSA384
Aliases: SHA384/ECDSA

Service: AlgorithmParameters, Algorithm: GOST3410, Class:
org.bouncycastle.jcajce.provider.asymmetric.gost.AlgorithmParametersSpi
Aliases: GOST-3410

Service: Signature, Algorithm: SHA512WITHECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$SecDSA512
Aliases: OID.1.2.840.10045.4.3.4

Service: KeyFactory, Algorithm: ElGamal, Class:
org.bouncycastle.jcajce.provider.asymmetric.elgamal.KeyFactorySpi

Service: KeyPairGenerator, Algorithm: ED25519, Class:
org.bouncycastle.jcajce.provider.asymmetric.edec.KeyPairGeneratorSpi\$Ed25519
Aliases: 1.3.101.112

Service: Signature, Algorithm: SHA256WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$SHA256
Aliases: SHA256withRSA

Service: MessageDigest, Algorithm: KECCAK-256, Class:
org.bouncycastle.jcajce.provider.digest.Keccak\$Digest256

Service: KeyFactory, Algorithm: EC, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyFactorySpi\$EC
Aliases: 1.3.132.1.14.0

Service: Signature, Algorithm: MD4WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$MD4
Aliases: MD4WITHRSAENCRYPTION

Service: AlgorithmParameterGenerator, Algorithm: DSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.dsa.AlgorithmParameterGeneratorSpi
Aliases: DSAWITHSHA1

Service: Signature, Algorithm: SHA3-384WITHRSAANDSHAKE128, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA3_384withRSA
andSHAKE128
Aliases: SHA3-384WithRSAAndSHAKE128

Service: KeyGenerator, Algorithm: HC256, Class:
org.bouncycastle.jcajce.provider.symmetric.HC256\$KeyGen

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.45, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256

Service: Signature, Algorithm: SHA3-224WITHRSAANDSHAKE128, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.PSSSignatureSpi\$SHA3_224withRSA
andSHAKE128
Aliases: SHA3-224withRSAandSHAKE128

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.44, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.43, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.42, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.41, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.40, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128

Service: AlgorithmParameterGenerator, Algorithm: DSTU7624, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$AlgParamGen128

Service: KeyGenerator, Algorithm: HMACKECCAK512, Class:
org.bouncycastle.jcajce.provider.digest.Keccak\$KeyGenerator512

Aliases: HMAC-KECCAK512

Service: Signature, Algorithm: SHA512(224)WITHRSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.DigestSignatureSpi\$SHA512_224

Aliases: SHA512(224)WithRSA

Service: KeyGenerator, Algorithm: CAST6-GMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.CAST6\$KeyGen

Aliases: CAST6GMAC

Service: Cipher, Algorithm: OID.1.2.840.113549.3.7, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$CBC

Service: Signature, Algorithm: RIPEMD160WITHECDSA, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.SignatureSpi\$ecDSARipeMD160

Aliases: OID.1.3.36.3.3.2.2

Service: KeyGenerator, Algorithm: HMACSHA3-384, Class:
org.bouncycastle.jcajce.provider.digest.SHA3\$KeyGenerator384

Aliases: HMAC-SHA3-384

Service: Cipher, Algorithm: 1.2.804.2.1.1.1.1.1.3.3.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CFB512

Service: Cipher, Algorithm: 1.2.804.2.1.1.1.1.1.3.3.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CFB256

Service: Cipher, Algorithm: 1.2.804.2.1.1.1.1.1.3.3.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$CFB128

Service: Cipher, Algorithm: OID.1.2.840.113549.3.2, Class:
org.bouncycastle.jcajce.provider.symmetric.RC2\$CBC

Service: KeyFactory, Algorithm: DH, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.KeyFactorySpi

Aliases: 1.2.840.10046.2.1

Service: Cipher, Algorithm: DHIES, Class:
org.bouncycastle.jcajce.provider.asymmetric.dh.IESCipher\$IES

Service: KeyGenerator, Algorithm: HMACSkein-256-256, Class:
org.bouncycastle.jcajce.provider.digest.Skein\$HMacKeyGenerator_256_256

Aliases: HMAC-Skein-256-256

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.39, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.38, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.37, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.36, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen256

Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.35, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen192

Service: Cipher, Algorithm: DESEDEWRAP, Class:
org.bouncycastle.jcajce.provider.symmetric.DESede\$Wrap

Aliases: DESEDERFC3217WRAP
Service: KeyGenerator, Algorithm: OID.1.2.410.200046.1.1.34, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$KeyGen128
Service: Mac, Algorithm: DESCMAC, Class:
org.bouncycastle.jcajce.provider.symmetric.DES\$CMAC
Service: Cipher, Algorithm: 1.2.643.2.2.21, Class:
org.bouncycastle.jcajce.provider.symmetric.GOST28147\$GCFB
Service: KeyGenerator, Algorithm: 1.2.392.200011.61.1.1.1.4, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$KeyGen256
Service: KeyGenerator, Algorithm: 1.2.392.200011.61.1.1.1.3, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$KeyGen192
Service: KeyGenerator, Algorithm: 1.2.392.200011.61.1.1.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.Camellia\$KeyGen128
Service: KeyAgreement, Algorithm: ECMQVWITHSHA224CKDF, Class:
org.bouncycastle.jcajce.provider.asymmetric.ec.KeyAgreementSpi\$MQVwithSHA224C
KDF
Service: Signature, Algorithm: WHIRLPOOLWITHRSA/ISO9796-2, Class:
org.bouncycastle.jcajce.provider.asymmetric.rsa.ISOSignatureSpi\$WhirlpoolWithRSAE
ncryption
Aliases: WHIRLPOOLWithRSA/ISO9796-2
Service: Cipher, Algorithm: PBEWITHSHAANDTWOFISH-CBC, Class:
org.bouncycastle.jcajce.provider.symmetric.Twofish\$PBEWithSHA
Service: Cipher, Algorithm: 2.16.840.1.101.3.4.1.44, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$CFB
Service: SecretKeyFactory, Algorithm: PBKDF2WITHHMACSHA3-224, Class:
org.bouncycastle.jcajce.provider.symmetric.PBEPBKDF2\$PBKDF2withSHA3_224
Service: AlgorithmParameters, Algorithm: ARIA, Class:
org.bouncycastle.jcajce.provider.symmetric.ARIA\$AlgParams
Aliases: OID.1.2.410.200046.1.1.14
Service: Cipher, Algorithm: 2.16.840.1.101.3.4.1.43, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$OFB
Service: Cipher, Algorithm: 2.16.840.1.101.3.4.1.42, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$CBC
Service: Cipher, Algorithm: 2.16.840.1.101.3.4.1.41, Class:
org.bouncycastle.jcajce.provider.symmetric.AES\$ECB
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.3.1.3, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen512
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.3.1.2, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen256
Service: KeyGenerator, Algorithm: OID.1.2.804.2.1.1.1.1.3.1.1, Class:
org.bouncycastle.jcajce.provider.symmetric.DSTU7624\$KeyGen128