

Licensing Information User Manual

Oracle Java SE 9 and 10, Advanced Management Console, Java/JDK Mission Control 6, 7, and 8 Products

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Title and Copyright Information

Introduction

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third party technology terms associated with the Oracle software program(s) covered by this document (the "Program(s)"). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the Oracle Software Delivery Cloud website (<https://edelivery.oracle.com>) or from media Oracle may provide. If you have a question about your license rights and obligations, please contact your Oracle sales representative, review the information provided in Oracle's Software Investment Guide (<http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html>), and/or contact the applicable Oracle License Management Services representative listed on <http://www.oracle.com/us/corporate/license-management-services/index.html>

Licensing Information

Description of Product Editions and Permitted Features

The Oracle Java SE products listed below include multiple features. In order to gain access to all of the features applicable to the product you have licensed, you may need

to download more than one installation package. There is no one-to-one relationship between products, features, and installation packages.

Installation packages may include features that are not available to all Oracle Java SE products and a single Oracle Java SE product may require more than one installation package. In addition, it may not be possible to download only the features licensed in a particular product as those features may only be available in installation packages that also include features not licensed in the desired product.

The tables and paragraphs below describe the products covered by this document. The tables also describe the features available in each product and the features included in installation packages.

This document applies to the following products:

- Oracle Java SE

Oracle Java SE provides features required for developing and running applications in the Java programming Language. For some system configurations, Oracle Java SE also includes the JavaFX client platform designed to enable application developers to easily create and deploy desktop and internet applications that behave consistently across different operating systems. Oracle Java SE only includes the features described in the table immediately below. However, you can obtain additional features by upgrading to one of the other products listed in this section.

All features listed in the table immediately below marked as not available for 'Oracle Java SE' are Commercial Features under the Oracle Binary Code License Agreement for the Java SE Platform Products and JavaFX.

- Oracle Java SE Universal Subscription

Oracle Java SE Universal Subscription includes Oracle Java SE plus additional features, identified in the table below, for mission critical enterprise client and server deployments of Java; for as long as the subscription remains active. Once the subscription ends, use of all software acquired through the subscription must terminate.

- Legacy Oracle Java SE Subscription

Oracle Java SE Subscription includes Oracle Java SE plus additional features, identified in the table below, for mission critical enterprise client and server deployments of Java; for as long as the subscription remains active. Once the

subscription ends, use of all software acquired through the subscription must terminate.

- Legacy Oracle Java SE Desktop Subscription

Oracle Java SE Desktop Subscription provides the same set of features as Oracle Java SE Subscription, however your use is restricted to general purpose desktop computers. Use with server applications is not allowed. Once the subscription ends, use of all software acquired through the subscription must terminate.

- Legacy Oracle Java SE Advanced and Oracle Java SE Advanced for Independent Software Vendors (ISVs)

Oracle Java SE Advanced includes Oracle Java SE plus additional features, identified in the table below, for mission critical enterprise client and server deployments of Java as well as Java based ISV applications and solutions. Oracle Java SE Advanced for ISVs provides the same features as Oracle Java SE Advanced, but the license terms for Oracle Java SE Advanced for ISVs allow for redistribution to third parties.

- Legacy Oracle Java SE Advanced Desktop and Oracle Java SE Advanced Desktop for ISVs

Oracle Java SE Advanced Desktop provides the same set of features as Oracle Java SE Advanced, however your use is restricted to general purpose desktop computers. Use with server applications is not allowed. Oracle Java SE Advanced Desktop for ISVs provides the same features as Oracle Java SE Advanced Desktop, but the license terms for Oracle Java SE Advanced Desktop for ISVs allow for redistribution to third parties.

- Legacy Oracle Java SE Suite and Oracle Java SE Suite for ISVs

Oracle Java SE Suite includes Oracle Java SE Advanced, plus additional features, identified in the table below, for soft real-time. JRockit Real Time Deterministic GC provides low and predictable latencies for standard Java applications. Oracle Java SE Suite for ISVs provides the same features as

Oracle Java SE Suite, but the license terms for Oracle Java SE Suite for ISVs allow for redistribution to third parties.

- Legacy Java for Business JDK and Java for Business JRE and JRockit JDK

These products are no longer offered to new customers as they have been superseded by Oracle Java SE and Oracle Java SE Advanced.

The products listed above might also grant you rights to other Java SE versions. Other Java SE versions might have different restrictions, features, entitlements, and/or installation packages. Please review the licensing information user manual for other Java SE versions to learn about your rights associated with those Java SE versions.

The following table describes the features available in each product, subject to the Entitled Products and Restricted Use Licenses table.

Feature	Oracle Java SE	Oracle Java SE Subscription And Oracle Java SE Universal Subscription	Oracle Java SE Advanced	Oracle Java SE Desktop Subscription	Oracle Java SE Advanced Desktop	Oracle Java SE Suite
Java Runtime Environment (JRE) <ul style="list-style-type: none"> • Java Virtual Machine (JVM) • Java Standard Libraries • JavaFX Runtime 	Y	Y	Y	Y	Y	Y
Java Deployment Technologies <ul style="list-style-type: none"> • Plugin • Web start 	Y	Y	Y	Y	Y	Y
Java SE Development Kit (JDK) <ul style="list-style-type: none"> • JavaFX SDK Libraries 	Y	Y	Y	Y	Y	Y
JRockit Development Kit	Y	Y	Y	Y	Y	Y
Java Flight Recorder – for Desktop	N	Y	Y	Y	Y	Y
Java Flight Recorder – for Server	N	Y	Y	N	N	Y
Java/JDK Mission Control	N	Y	Y	Y	Y	Y
Java Advanced Management Console	N	Y	Y	Y	Y	Y
Java SE Enterprise Installer	N	Y	Y	Y	Y	Y
JRE Usage Tracking	N	Y	Y	Y	Y	Y
JRockit Real Time Deterministic GC	N	N	N	N	N	Y

JRokit Flight Recorder	N	Y	Y	N	N	Y
JRokit Mission Control	N	Y	Y	N	N	Y
<ul style="list-style-type: none"> • JRokit Mission Control Console observability • JRokit Mission Control Memory Leak Detector observability 						

The following features are available only as described in the “Prerequisite Products” section below:

- Application Class Data Sharing
- Cooperative Memory Management
- Resource Management

Installation packages

There are no installers or packages that correspond directly with the Oracle Java SE products listed above. You must ensure that you have the appropriate licenses to use any of the features from each of these packages.

Package	Contents	Features Available
Oracle Java SE Runtime Environment (JRE) - Standard Installer	Everything required for running Java applications including a Java Virtual Machine, many common Java Libraries, the JavaFX runtime and libraries as well as the technologies required for accessing the JRE through a web browser.	<ul style="list-style-type: none"> - Java Runtime Environment - Java Deployment Technologies (Plugin & Web start) - Java Flight Recorder - JRE Usage Tracking
Oracle Java SE Runtime Environment (JRE) - MSI Installer	<p>Same content as the JRE Standard Installer but packaged in a format optimized for mass automated distribution, rather than for manual installation.</p> <p>Available only for Windows systems.</p>	<ul style="list-style-type: none"> - Java Runtime Environment - Java Deployment Technologies (Plugin & Web start) - Java Flight Recorder - JRE Usage Tracking - Java SE Enterprise Installer
Oracle Java SE Runtime Environment (JRE) - Server Installer	<p>Similar content to that of the JRE Standard Installer but includes tools and components typically required for running and monitoring Java Server applications.</p> <p>Excludes Java Deployment Technologies</p>	<ul style="list-style-type: none"> - Java Runtime Environment - Java Flight Recorder - JRE Usage Tracking
Oracle Java SE Development Kit (JDK)	Targeted for developers of Java applications. Includes a complete Java Runtime Environment plus many tools required for developing, debugging, monitoring, and documenting Java Programs.	<ul style="list-style-type: none"> - Java SE Development Kit - Java Runtime Environment - Java Deployment Technologies (Plugin & Web start) - Java Flight Recorder - JRE Usage Tracking
Java/JDK Mission Control	JDK Mission Control (JMC) is an advanced set of tools for managing, monitoring, profiling, and troubleshooting Java applications.	<ul style="list-style-type: none"> - Java/JDK Mission Control

Java/JDK Mission Control (Eclipse Plugin)	<p>Plugin for using Java/JDK Mission Control as an Eclipse Add-on.</p> <p>Requires Eclipse Rich Client Platform (RCP) which is separately available from the Eclipse Foundation's website.</p> <p>Oracle does not provide support for the Java/JDK Mission Control Eclipse Plugin.</p>	<ul style="list-style-type: none"> - Java/JDK Mission Control
Java Advanced Management Console	<p>Allows monitoring and configuring Java Runtime Environments, for which you have a license, on servers and desktops. Includes a Windows Desktop Agent for automated configurations of JREs reporting.</p> <p>Also includes tools for customizing the Windows MSI Installer.</p>	<ul style="list-style-type: none"> - Java Advanced Management Console - Java SE Enterprise Installer <ul style="list-style-type: none"> - Java Runtime Environment - Java Deployment Technologies (Plugin & Web start) - Java Flight Recorder - JRE Usage Tracking
JRockit JDK	<p>Similar to the Oracle Java SE Development Kit but includes the JRockit virtual machine instead of the more current Hotspot virtual machine.</p>	<ul style="list-style-type: none"> - JRockit JDK - Java Runtime Environment - JRockit Flight Recorder - JRockit Mission Control - JRockit Real Time Deterministic GC
Oracle TZUpdater	<p>Utility for updating the time zone database, included with the Java Runtime Environment, with the information provided on the IANA Time Zone Database updates</p>	

Oracle Java Access Bridge	<p>Technology that exposes the Java Accessibility API in a Microsoft Windows DLL, enabling Java applications and applets that implement the Java Accessibility API to be visible to assistive technologies on Microsoft Windows systems.</p> <p>Note that for JRE 7u6 version and later versions, the Java Access Bridge is already included in the JRE. The stand-alone installer of the Access Bridge is required only for earlier releases.</p>
JavaFX Runtime	<p>Includes the JavaFX runtime and JavaFX SDK Libraries.</p> <ul style="list-style-type: none"> - JavaFX Runtime - JavaFX SDK Libraries <p>Note that for JRE 7u6 version and later versions, the JavaFX Runtime is already included in the JRE. The stand-alone installer of the JavaFX Runtime is required only for earlier releases.</p>

Note that some features included on some packages are disabled by default and users must enable them before they can be used. Please refer to the product technical documentation for details on how to enable and use each feature.

Prerequisite Products

- A license to either Oracle Database or MySQL is a prerequisite to license and use the Java Advanced Management Console feature.
- A license to Oracle WebLogic Server is a prerequisite to license and use the Java Advanced Management Console feature. Note that a restricted license for WebLogic Server is included in products that include the Java Advanced Management Console feature (see *“Entitled Products and Restricted Use Licenses”* below for detail).

- Running your application on Oracle WebLogic Server, Oracle Cloud, or Oracle Cloud Machine is a prerequisite to license and use the following features:
 - Application Class Data Sharing
 - Cooperative Memory Management
 - Resource Management

Entitled Products and Restricted Use Licenses

Java SE Product / Feature	Licensing Information
<p>All Oracle Java SE Products that include Java Advanced Management Console 2.0 and later versions</p>	<p>Restricted Use</p> <p>Oracle WebLogic Server Standard Edition may be used solely for running the Java Advanced Management Console 2.0 and later versions.</p> <p>Any system licensed to be monitored or managed using Java Advanced Management Console (AMC) can connect to an AMC server. Splitting the managed systems into different AMC servers and/or installing AMC using WebLogic Clustering for management, performance, or organizational reasons is allowed.</p> <p>For Example: A company that has 100,000 Desktops covered by Java SE Desktop Subscriptions could use one AMC server to manage them all, or choose to split them into 4 AMC installations each managing 25,000 Desktops, as long as all the managed/monitored systems are licensed.</p>
<p>Java Mission Control and JRockit Mission Control</p>	<p>Restricted Use</p> <p>Java Mission Control and JRockit Mission Control are restricted to monitor, either by connecting to or by examining recordings made on, machines on which the use of Java Flight Recorder is licensed.</p> <p>Java Mission Control and JRockit Mission control can be run from any system, even those not covered by any of the Java Products that offers Java Flight Recording, as long as they are used to monitor systems on which Java Flight Recorder is licensed.</p> <p>For Example: A company has 10 servers licensed for Java Flight Recorder (or JRockit Flight Recorder if using JRockit) and monitored from four workstations.</p>

- The company needs Oracle Java SE Advanced (or some other product that offers Java Flight Recorder) licenses for the 10 servers, but not for the four client workstations
- The company may send the Java Flight Recording files to be analyzed by an outside consultant who may use Java Mission Control to review the recordings on the company's behalf only without requiring Java SE Advanced on the consultant's system, as long as the consultant only analyzes recordings done on (or connects to) the company's licensed systems.

Java SE Runtime Environment

Additional Terms and conditions for redistribution

When allowed by the Oracle license agreement under which you have licensed Oracle Java SE, and when in compliance with the conditions set forth in such license agreement, licensees (including developers and independent software vendors) who license and distribute the Java SE Runtime Environment with their programs may also redistribute the Java SE Runtime Environment (JRE), either:

- The complete contents of the JRE installer/packager, or
- Download the JDK and use jlink (available under /bin directory of the JDK) to create a custom runtime.

Third-Party Notices and/or Licenses

Open Source or Other Separately Licensed Software

The required notices for open source or other separately licensed software products or components distributed in Oracle Java SE Products are identified in the following table, along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party software.

On Oracle Java SE 10 Products

- Install on macOS
 - BSDiff v4.3
 - Sparkle 1.5
- Install on Windows

- BSDiff and BSPatch v4.3
 - WIX Toolset v3.5
- Module java.base
 - Cryptix AES 3.2.0
 - ASM Bytecode Manipulation Framework v6.0
 - Unicode Common Local Data Repository (CLDR) v29
 - International Components for Unicode (ICU4J) v56.1
 - Mozilla Public Suffix List
 - zlib (Windows only) v1.2.11
- Module java.desktop
 - Eastman Kodak Company: Kodak Color Management System (kcms) and portions of color management and imaging software
 - GIFLIB v5.1.4
 - Harfbuzz v1.7.1
 - Independent JPEG Group: JPEG release 6b
 - Little CMS 2.8
 - libpng v1.6.34
 - Mesa 3D Graphics Library v4.1
 - Khronos Group OpenGL Headers v2.1 (on Linux and Solaris)
 - X Windows System 6.8.2 (on Linux and Solaris)
- Module java.smartcardio (on Linux, Solaris, and macOS)
 - PC/SC Lite v1.1.1
- Module java.xml.crypto
 - Apache Santuario v1.5.4
- Module java.xml
 - Apache Commons Byte Code Engineering Library (BCEL) Version 6.0
 - DOM Level 3 Core Specification v1.0
 - CUP Parser Generator for Java 0.10k
 - Apache Xalan 2.7.1
 - Apache Xerces 2.11.0
- Module javafx.graphics
 - IBM International Components for Unicode (ICU4C) v51.2
 - Independent JPEG Group (IJG) JPEG v7
- Module javafx.media
 - Apple Computer: CoreAudio Utility Classes v2.0
 - GNU Glib v2.42.1
 - GStreamer v1.4.4
 - LibFFI v3.2.1
- Module javafx.web
 - IBM International Components for Unicode (ICU4C) v51.2
 - xmlsoft.org: libxml2 v2.7.2
 - xmlsoft.org: libxslt v1.1.28
 - WebKit Open Source Project: WebKit v604.1
- Module jdk.crypto.cryptoki
 - PKCS #11 Cryptographic Token Interface v2.20 Amendment 3 Header Files
 - IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1

- Module `jdk.crypto.ec`
 - Mozilla Elliptic Curve Cryptography (ECC)
- Module `jdk.dynalink`
 - Dynalink v.5
- Module `jdk.internal.opt`
 - `jopt-simple` v4.6
- Module `jdk.javadoc`
 - DejaVu fonts v2.34
 - jQuery v1.20.2
 - JSZip v2.5.0
 - Pako v1.0
- Module `jdk.localedata`
 - Unicode Common Local Data Repository (CLDR) v29
 - Thai Dictionary
- Module `jdk.scripting.nashorn`
 - Double-conversion v1.1.5
 - JRuby Joni v1.1.9
- Module `jdk.xml.bind`
 - freebXML v3.1
 - RelaxNG Datatype
 - RelaxNG Object Model/Parser v20061207
 - Apache XML Resolver 1.2

On Oracle Java SE 9 Products

- Install on macOS
 - BSDiff v4.3
 - Sparkle 1.5
- Install on Microsoft Windows
 - BSDiff and BSPatch v4.3
 - WIX Toolset v3.5
- Module `java.base`
 - Cryptix AES 3.2.0
 - ASM Bytecode Manipulation Framework v5.1
 - Unicode Common Local Data Repository (CLDR) v29
 - International Components for Unicode (ICU4J) v56.1
 - zlib (Windows only) v1.2.11
- Module `java.desktop`
 - Eastman Kodak Company: Kodak Color Management System (kcms) and portions of color management and imaging software
 - GIFLIB v5.1.4
 - Harfbuzz v1.3.0
 - Independent JPEG Group: JPEG release 6b
 - Little CMS 2.8
 - libpng v1.6.23
 - Mesa 3D Graphics Library v4.1
 - Khronos Group OpenGL Headers v2.1 (on Linux and Solaris)

- Module java.desktop (on Linux and Solaris)
 - FontConfig 2.5
 - X Windows System 6.8.2
- Module java.smartcardio (on Linux, Solaris, and macOS)
 - PC/SC Lite v1.1.1
- Module java.xml.crypto
 - Apache Santuario v1.5.4
- Module javafx.graphics
 - IBM International Components for Unicode (ICU4C) v51.2
 - Independent JPEG Group (IJG) JPEG v7
- Module javafx.media
 - Apple Computer: CoreAudio Utility Classes v2.0
 - GNU Glib v2.42.1
 - GStreamer v1.4.4
 - LibFFI v3.2.1
- Module javafx.web
 - IBM International Components for Unicode (ICU4C) v51.2
 - xmlsoft.org: libxml2 v2.7.2
 - xmlsoft.org: libxslt v1.1.28
 - WebKit Open Source Project: WebKit v604.1
- Module jdk.crypto.cryptoki
 - PKCS #11 Cryptographic Token Interface v2.20 Amendment 3 Header Files
 - IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1
- Module jdk.crypto.ec
 - Mozilla Elliptic Curve Cryptography (ECC)
- Module jdk.internal.le
 - JLine v2.12.1
- Module jdk.internal.opt
 - jopt-simple v4.6
- Module jdk.localedata
 - Unicode Common Local Data Repository (CLDR) v29
 - Thai Dictionary
- Module java.base
 - Mozilla Public Suffix List
- Module JAXP
 - Apache Byte Code Engineering Library (BCEL) v5.2
 - DOM Level 3 Core Specification v1.0
 - CUP Parser Generator for Java 0.10k
 - Apache Xalan 2.7.1
 - Apache Xerces 2.11.0
 - Apache XML Resolver 1.2
- Module JAXB
 - freebXML v3.1
 - RelaxNG Datatype
 - RelaxNG Object Model/Parser v20061207
 - Apache XML Resolver 1.2

- Module `jdk.javadoc`
 - DeJaVu fonts v2.34
 - jQuery v1.20.2
 - JSZip v2.5.0
 - Pako v1.0
- Module `jdk.dynalink`
 - Dynalink v.5
- Module `jdk.scripting.nashorn`
 - Double-conversion v1.1.5
 - JRuby Joni v1.1.9
- Module `jdk.plugin.dom`
 - DOM Level 3 Core Specification v1.0

On AMC 2, available as a separate download

- `jackson-annotations` v2.10.1 for AMC 2.18 to 2.20
- `jackson-annotations` v2.12.1 for AMC 2.21 to 2.23
- `jackson-annotations` v2.13.1 for AMC 2.24
- `jackson-annotations` v2.13.2 for AMC 2.25 to 2.26
- `jackson-annotations` v2.13.4 for AMC 2.27 to 2.28
- `jackson-annotations` v2.15.2 for AMC 2.29
- `jackson-annotations` v2.16.1 for AMC 2.30 and later
- `jackson-core` v2.10.1 for AMC 2.18 to 2.20
- `jackson-core` v2.12.1 for AMC 2.21 to 2.23
- `jackson-core` v2.13.1 for AMC 2.24
- `jackson-core` v2.13.2 for AMC 2.25 to 2.26
- `jackson-core` v2.13.4 for AMC 2.27 to 2.28
- `jackson-core` v2.15.2 for AMC 2.29
- `jackson-core` v2.16.1 for AMC 2.30 and later
- `jackson-databind` v2.10.1 for AMC 2.18 to 2.20
- `jackson-databind` v2.12.1 for AMC 2.21 to 2.23
- `jackson-databind` v2.13.1 for AMC 2.24
- `jackson-databind` v2.13.2.2 for AMC 2.25 to 2.26
- `jackson-databind` v2.13.4.2 for AMC 2.27 to 2.28
- `jackson-databind` v2.15.2 for AMC 2.29
- `jackson-databind` v2.16.1 for AMC 2.30 and later
- `jackson-module-jakarta-xmlbind-annotations` v.2.16.1 for AMC 2.30
- `jackson-module-jaxb-annotations` v2.10.1 for AMC 2.18 to 2.20
- `jackson-module-jaxb-annotations` v2.12.1 for AMC 2.21 to 2.23
- `jackson-module-jaxb-annotations` v2.13.1 for AMC 2.24
- `jackson-module-jaxb-annotations` v2.13.2 for AMC 2.25 to 2.26
- `jackson-module-jaxb-annotations` v2.13.4 for AMC 2.27 to 2.28
- `jackson-module-jaxb-annotations` v2.15.2 for AMC 2.29
- `jackson-module-jaxb-annotations` v2.16.1 for AMC 2.30 and later
- Jakarta Activation API (JAF) 1.2.2 for AMC 2.19 to 2.29
- Jakarta Activation API (JAF) 2.1.2 for AMC 2.30 and later

- Jakarta Annotations API v2.1.1 for AMC 2.30 and later
- Jakarta Restful Web Services JAX-RS API v.3.0.0 for AMC 2.30 and later
- Jakarta XML Binding API (JAX-B) 2.3.3 for AMC 2.19 to 2.29
- Jakarta XML Binding API (JAX-B) 3.0.1 for AMC 2.30 and later
- Jersey v2.30 for AMC 2.18 to AMC 2.21
- jersey-client v2.34 for AMC 2.22 and 2.23
- jersey-client v2.35 for AMC 2.24 to 2.28
- jersey-client v2.40 for AMC 2.29
- jersey-client v3.0.12 for AMC 2.30 and later
- jersey-common v2.34 for AMC 2.22 and 2.23
- jersey-common v2.35 for AMC 2.24 to 2.28
- jersey-common v2.40 for AMC 2.29
- jersey-common v3.0.12 for AMC 2.30 and later
- jersey-entity-filtering v2.34 for AMC 2.22 and 2.23
- jersey-entity-filtering v2.35 for AMC 2.24 to 2.28
- jersey-entity-filtering v2.40 for AMC 2.29
- jersey-entity-filtering v3.0.12 for AMC 2.30 and later
- jersey-hk2 v2.34 for AMC 2.22 and 2.23
- jersey-hk2 v2.35 for AMC 2.24 to 2.28
- jersey-hk2 v2.40 for AMC 2.29
- jersey-hk2 v3.0.12 for AMC 2.30 and later
- jersey-media-json-jackson v2.34 for AMC 2.22 and 2.23
- jersey-media-json-jackson v2.35 for AMC 2.24 to 2.28
- jersey-media-json-jackson v2.40 for AMC 2.29
- jersey-media-json-jackson v3.0.12 for AMC 2.30 and later
- jersey-media-multipart v2.34 for AMC 2.22 and 2.23
- jersey-media-multipart v2.35 for AMC 2.24 to 2.28
- jersey-media-multipart v2.40 for AMC 2.29 and later
- jersey-media-multipart v3.0.12 for AMC 2.30 and later
- jersey-server v2.34 for AMC 2.22 and 2.23
- jersey-server v2.35 for AMC 2.24 to 2.28
- jersey-server v2.40 for AMC 2.29
- jersey-server v3.0.12 for AMC 2.30 and later
- Oracle JET 8.0.0 for AMC 2.18 to 2.21
- Oracle JET 10.1.1 for AMC 2.22 to 2.24
- Oracle JET 10.1.7 for AMC 2.25 to 2.26
- Oracle JET 13.1.0 for AMC 2.27 to 2.28

On JMC 8, available as a separate download for JDK 7 and JDK 8

- ASM v9.2 for JMC 8.2 and 8.2.1
- ASM v9.3 for JMC 8.3 and later
- D3 6.3.1 for JMC 8 to 8.3
- D3 7.7.0 for JMC 8.3.1 and later
- d3-graphviz 3.1.0 for JMC 8 to JMC 8.2
- d3-graphviz 4.1.1 for 8.2.1 and later

- d3-flame-graph 4.0.6 for JMC 8 to JMC 8.2.1
- d3-flame-graph 4.1.3 for JMC 8.3 and later
- Eclipse Platform 4.16.0 for JMC 8 and 8.0.1
- Eclipse Platform 4.19.0 for JMC 8.1
- Eclipse Platform 4.21.0 for JMC 8.2 and 8.2.1
- Eclipse Platform 4.24.0 for JMC 8.3 and later
- Font Awesome 5.15.3 for JMC 8.1 and later
- HdrHistogram 2.1.12
- hpcc-js-wasm 0.3.14 for JMC 8 to 8.2
- hpcc-js-wasm 1.14.1 for 8.2.1 and later
- lz4 -java 1.7.1 for JMC 8 to 8.1
- lz4 -java 1.8.0 for JMC 8.2 and later
- JavaBeans Activation Framework (JAF) 1.2.2 for JMC 8 to 8.1
- Jakarta Activation Framework 2.0.1 for JMC 8.2 to 8.3
- Jakarta mail 1.6.5 for JMC 8 to 8.1
- Jakarta mail 2.0.1 for JMC 8.2 to 8.3
- Angus Mail 2.0.1 for JMC 8.3.1 and later
- Jetty-websocket 10.0.7 for JMC 8.2 and 8.2.1
- Jetty 10.0.11 for JMC 8.3 and later
- OWASP Java Encoder Project 1.2.2 for JMC 8
- OWASP Java Encoder Project 1.2.3 for JMC 8.0.1 and later
- Spifly 1.3.4 for JMC 8.2 and later
- Twitter4J 4.0.7 for JMC 8 to 8.1

On JMC 7, available as a separate download for JDK 7 and JDK 8

- Eclipse Platform 4.8.0 for JMC 7 to JMC 7.1.2
- Eclipse Platform 4.16.0 for JMC 7.1.3 and later
- Eclipse Babel 0.15.1
- HdrHistogram 2.1.12 for JMC 7.1.3 and later
- JavaBeans Activation Framework (JAF) 1.2.1 for JMC 7 to JMC 7.1.2
- JavaBeans Activation Framework (JAF) 1.2.2 for JMC 7.1.3 and later
- Javamail 1.6.3 for JMC 7 to JMC 7.1.2
- Jakarta mail 1.6.5 for JMC 7.1.3 and later
- OWASP Java Encoder Project 1.2.2 for JMC 7 to JMC 7.1.2
- OWASP Java Encoder Project 1.2.3 for JMC 7.1.3 and later
- Twitter4J 4.0.7
- on JavaFX for JMC 7 and 7.0.1
 - Apple Computer: CoreAudio Utility Classes v2.0 for JMC 7
 - GNU Glib v2.58.2 for JMC 7
 - GNU Glib v2.62.2 for JMC 7.0.1
 - GStreamer v1.14.4 for JMC 7
 - GStreamer 1.16.1 for JMC 7.0.1
 - IBM International Components for Unicode (ICU4C) v62.1 for JMC 7
 - IBM International Components for Unicode (ICU4C) v64.2 for JMC 7.0.1
 - Independent JPEG Group (IJG) JPEG v9c for JMC 7 to 7.0.1
 - Khronos Group OpenGL Headers v4.6 (on Linux, Solaris, and macOS)

- LibFFI v3.2.1
- Mesa 3-D Graphics Library v5.0
- xmlsoft.org: libxml2 v2.9.9 for JMC 7 to 7.0.1
- xmlsoft.org: libxslt v1.1.33 for JMC 7
- xmlsoft.org: libxslt v1.1.34 for JMC 7.0.1
- WebKit Open Source Project: WebKit v608.1 for JMC 7
- WebKit Open Source Project: WebKit v609.1 for JMC 7.0.1

On JMC 6, included with JDK 9 and 10

- GreyChart
- Eclipse Platform v4.6
- Eclipse Babel v0.13.1
- Twitter4J v4.0.4
- OWASP Java Encoder Project 1.2

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Abstract: Part of CoreAudio Utility Classes
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analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
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The KStem stemmer in
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The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default

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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
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<http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz>

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

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

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

Oracle OpenJDK

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

- * java.sun.security.ssl

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

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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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FontConfig 2.5

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jersey-server v2.40

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Source Code

The project maintains the following source code repositories:

* <https://github.com/eclipse-ee4j/websocket-api>

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None

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The following dependencies are EPL and ASL2.

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

The following dependencies are EPL and CDDL 1.0.

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

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

- * java.sun.security.ssl

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

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

The following dependencies are ASL2 licensed.

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

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- * org.mortbay.jasper:apache-jsp
- * org.apache.tomcat:tomcat-jasper
- * org.apache.tomcat:tomcat-juli
- * org.apache.tomcat:tomcat-jsp-api
- * org.apache.tomcat:tomcat-el-api
- * org.apache.tomcat:tomcat-jasper-el
- * org.apache.tomcat:tomcat-api
- * org.apache.tomcat:tomcat-util-scan
- * org.apache.tomcat:tomcat-util
- * org.mortbay.jasper:apache-el
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4th Party Dependencies

- =====
org.slf4j:slf4j-api (MIT License)
org.eclipse.jetty.toolchain:jetty-servlet-api (Eclipse Public License 2.0 or Apache Software License 2.0)
jakarta.transaction:jakarta.transaction-api (EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0)
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org.slf4j:slf4j-api

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<https://projects.eclipse.org/projects/ee4j.servlet>

jakarta.servlet:jakarta.servlet-api

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org.eclipse.jetty.toolchain:jetty-schemas

jakarta.transaction:jakarta.transaction-api

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js/libs/touchr/touchr.js                                  MIT

```

```

/*!
  Knockout Fast Foreach v0.6.0 (2016-07-28T11:02:54.197Z)
  By: Brian M Hunt (C) 2015 | License: MIT
*/

```

```

/**
 * webcomponents/custom-elements - v1.1.2
 *
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```

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* <http://proj4js.org/>

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*/

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* require-css - v0.1.10

* <https://github.com/guybedford/require-css>

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/*! Hammer.JS - v2.0.4 - 2014-09-28

* <http://hammerjs.github.io/>

*

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 */
```

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```
/*
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 Available via the MIT or new BSD license.
 see: http://github.com/requirejs/i18n for details
 */
```

```
/* This component is based on original code from:
 jsTree 1.0-rc3 http://jstree.com/
 "Copyright (c) 2010 Ivan Bozhanov (vakata.com)
 Licensed same as jquery - under the terms of either the MIT License or
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 http://www.opensource.org/licenses/mit-license.php
 http://www.gnu.org/licenses/gpl.html"
 */
```

ES6-Promise v1.0.0
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```
/*! jQuery UI - v1.12.1 - 2015-03-18
 * http://jqueryui.com
 * Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js
 * Copyright 2015 jQuery Foundation and other contributors; Licensed MIT */
```

```
/*!
 * jQuery JavaScript Library v3.4.1
 * http://jquery.com/
 *
 * Includes Sizzle.js
 * http://sizzlejs.com/
 *
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```


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*
* Date: 2014-12-18T15:11Z
*/

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*/

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* see: <http://github.com/requirejs/text> for details
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*/

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* Knockout JavaScript library v3.5.0
* (c) Steven Sanderson - <http://knockoutjs.com/>
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js/libs/oj/v10.0.0/min/ojtree.js (jsTree.js)	MIT
js/libs/oj/v10.0.0/ojL10n.js (requireJS i18n)	MIT
js/libs/proj4js/dist/proj4.js	Proj4js
js/libs/require/require.js	MIT
js/libs/require/text.js	MIT
js/libs/require-css/css.min.js (require-css)	MIT
js/libs/webcomponents/custom-elements.min.js	custom-elements
scss/oj/v10.0.0/3rdparty/normalize/normalize.scss	MIT
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Chai - v4.2.0

<https://github.com/chaijs/chai>

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expression-eval - v2.0.0
<https://github.com/donmccurdy/expression-eval>
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jsep - v0.3.4
<https://github.com/soney/jsep>
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petit-dom - v0.2.2

<https://github.com/yelouafi/petit-dom>

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webcomponents/custom-elements - v1.1.2

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proj4js - v2.5.0

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require-css - v0.1.10

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Hammer.JS - v2.0.8 - 2016-04-22

<http://hammerjs.github.io/>

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Normalize.scss
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RequireJS i18n 2.0.2

<http://github.com/requirejs/i18n> for details

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jsTree 1.0-rc3 <http://jstree.com/>

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select2.js

<https://github.com/select2/select2>

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ES6-Promise

<https://github.com/stefanpenner/es6-promise>

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jQuery UI - v1.12.1 - 2015-03-18

<http://jqueryui.com>

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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jQuery JavaScript Library v3.5.1

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JS Signals <<http://millermedeiros.github.com/js-signals/>>

Author: Miller Medeiros

Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)

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RequireJS text 2.0.15

<http://github.com/requirejs/text>

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RequireJS 2.3.6

<http://github.com/jrburke/requirejs>

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Knockout JavaScript library v3.5.1

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<http://knockoutjs.com/>

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jsep -

<https://github.com/soney/jsep>

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<http://hammerjs.github.io/>

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Normalize.scss

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RequireJS i18n

<http://github.com/requirejs/i18n> for details

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select2.js

<https://github.com/select2/select2>

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RequireJS text

<http://github.com/requirejs/text>

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RequireJS

<http://github.com/jrburke/requirejs>

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July 15, 2018

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