

# Licensing Information User Manual

## Oracle Java SE and Oracle Java SE Embedded 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 and Oracle Java SE Embedded 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 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.

- 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.

- 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.

- 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.

- 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.

- Oracle Java SE Embedded (Java SE 8 only)

Oracle Java SE Embedded includes ported versions of the Java Development Kit (JDK) for specialized hardware. To use such JDK ports you must accept the applicable [Oracle Technology Network Developer License Agreement](#). Oracle Java SE Embedded also extends Oracle Java SE to non-general purpose desktop computers and servers. For commercial use, production use

and/or distribution of Oracle Java SE Embedded products, contact Oracle to obtain the applicable license.

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

These products are no longer offered to new customers as they have been superseded by Oracle Java SE and Oracle Java SE Advanced.

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 Advanced	Oracle Java SE Desktop Subscription and Oracle Java SE Advanced Desktop	Oracle Java SE Suite	Oracle Java SE Embedded
<b>Java Runtime Environment (JRE)</b> <ul style="list-style-type: none"> <li>• Java Virtual Machine (JVM)</li> <li>• Java Standard Libraries</li> <li>• JavaFX Runtime</li> </ul>	Y	Y	Y	Y	Y
<b>Java Deployment Technologies</b> <ul style="list-style-type: none"> <li>• Plugin</li> <li>• Web start</li> </ul>	Y	Y	Y	Y	Y
<b>Java SE Development Kit (JDK)</b> <ul style="list-style-type: none"> <li>• JavaFX SDK Libraries</li> </ul>	Y	Y	Y	Y	Y
<b>JRockit Development Kit</b>	Y	Y	Y	Y	N
<b>Java SE Development Kit for embedded devices</b>	N	N	N	N	Y
<b>Java Flight Recorder – for Desktop</b>	N	Y	Y	Y	Y
<b>Java Flight Recorder – for Server</b>	N	Y	N	Y	Y
<b>Java Mission Control</b>	N	Y	Y	Y	Y
<b>Java Advanced Management Console</b>	N	Y	Y	Y	N
<b>Java SE Enterprise Installer</b>	N	Y	Y	Y	N

<b>JRE Usage Tracking</b>	N	Y	Y	Y	Y
<b>JRockit Real Time Deterministic GC</b>	N	N	N	Y	N
<b>JRockit Flight Recorder</b>	N	Y	N	Y	N
<b>JRockit Mission Control</b> <ul style="list-style-type: none"> <li>• JRockit Mission Control Console observability</li> <li>• JRockit Mission Control Memory Leak Detector observability</li> </ul>	N	Y	N	Y	N

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 or Oracle Java SE Embedded 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
<b>Oracle Java SE Runtime Environment (JRE) - Standard Installer</b>	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"> <li>- Java Runtime Environment</li> <li>- Java Deployment Technologies (Plugin &amp; Web start)</li> <li>- Java Flight Recorder</li> <li>- JRE Usage Tracking</li> </ul>
<b>Oracle Java SE Runtime Environment (JRE) - MSI Installer</b>	<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"> <li>- Java Runtime Environment</li> <li>- Java Deployment Technologies (Plugin &amp; Web start)</li> <li>- Java Flight Recorder</li> <li>- JRE Usage Tracking</li> <li>- Java SE Enterprise Installer</li> </ul>
<b>Oracle Java SE Runtime Environment (JRE) - Server Installer</b>	<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"> <li>- Java Runtime Environment</li> <li>- Java Flight Recorder</li> <li>- JRE Usage Tracking</li> </ul>
<b>Oracle Java SE Development Kit (JDK)</b>	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"> <li>- Java SE Development Kit</li> <li>- Java Runtime Environment</li> <li>- Java Deployment Technologies (Plugin &amp; Web start)</li> <li>- Java Flight Recorder</li> <li>- JRE Usage Tracking</li> <li>- Java Mission Control</li> </ul>

<b>Java Mission Control (Eclipse Plugin)</b>	<p>Plugin for using Java 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 Mission Control Eclipse Plugin.</p>	<ul style="list-style-type: none"> <li>- Java Mission Control</li> </ul>
<b>Java Advanced Management Console</b>	<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"> <li>- Java Advanced Management Console</li> <li>- Java SE Enterprise Installer <ul style="list-style-type: none"> <li>- Java Runtime Environment</li> <li>- Java Deployment Technologies (Plugin &amp; Web start)</li> </ul> </li> <li>- Java Flight Recorder</li> <li>- JRE Usage Tracking</li> </ul>
<b>JRockit JDK</b>	<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"> <li>- JRockit JDK</li> <li>- Java Runtime Environment</li> <li>- JRockit Flight Recorder</li> <li>- JRockit Mission Control</li> <li>- JRockit Real Time Deterministic GC</li> </ul>
<b>Oracle TZUpdater</b>	<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>	



<b>Oracle Java Access Bridge</b>	<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>	
<b>JavaFX Runtime</b>	<p>Includes the JavaFX runtime and JavaFX SDK Libraries.</p> <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>	<ul style="list-style-type: none"> <li>- JavaFX Runtime</li> <li>- JavaFX SDK Libraries</li> </ul>

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
<b>All Oracle Java SE Products that include Java Advanced Management Console 2.0 and later versions</b>	<b>Restricted Use</b> Oracle WebLogic Server Standard Edition may be used solely for running the Java Advanced Management Console 2.0 and later versions
<b>Java Mission Control and JRockit Mission Control</b>	<b>Restricted Use</b> <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> <ul style="list-style-type: none"> <li>• 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</li> <li>• 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</li> </ul>

	analyzes recordings done on (or connects to) the company's licensed systems.
<b>Java SE Runtime Environment</b>	<p><b>Additional Terms and conditions for redistribution</b></p> <p>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).</p> <p>For Java SE 8 either:</p> <ul style="list-style-type: none"> <li>• Use contents of the JRE installer/package, or</li> <li>• Extract the JRE from the JDK.</li> </ul> <p>In either case you are permitted to trim out the optional files listed in <i>Appendix 1: Optional JRE Files and Directories</i> and you may include the Redistributable files from <i>Appendix 2: Redistributable JDK Files</i>.</p> <p>For Java SE 9 and later versions either:</p> <ul style="list-style-type: none"> <li>• Use the complete contents of the JRE installer/packager, or</li> <li>• Download the JDK and use jlink (available under /bin directory of the JDK) to create a custom runtime.</li> </ul> <p>Appendix 1 and 2 are not applicable to Java SE 9 and later versions.</p>

## 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 and Oracle Java Embedded 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 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
  - X Windows System 6.8.2 (on Linux and Solaris)
- Module java.smartcardio (on Linux and Solaris)
  - PC/SC Lite for Suse Linux 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 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
- Module java.desktop (on Linux and Solaris)
  - FontConfig 2.5
  - X Windows System 6.8.2
- Module java.smartcardio (on Linux and Solaris)
  - PC/SC Lite for Suse Linux 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 Oracle Java SE 8 Products

- Apache Commons Math 3.2
- Apache Derby 10.11.1.2 for JDK 8 to 8u172
- Apache Jakarta BCEL 5.1
- Apache Jakarta Regexp 1.4 for JDK 8 to 8u241
- Apache Santuario v1.5.4 for JDK 8 to 8u221
- Apache Santuario v1.5.4 for JDK 8u231 and later
- Apache Xalan 2.7.1 for JDK 8 to 8u212
- Apache Xalan 2.7.2 for JDK 8u221 and later
- Apache Xerces 2.10.0 for JDK 8 to 8u212
- Apache Xerces 2.11.0 for JDK 8u221 and later
- Apache XML Resolver 1.1 for JDK 8 to 8u212
- Apache XML Resolver 1.2 for JDK 8u221 and later
- Apple Computer: CoreAudio Utility Classes v2.0
- ASM Bytecode Manipulation Framework v5.0.3
- BSDiff and BSPatch v4.3 (Windows and MacOS only)
- Cryptix AES 3.2.0
- CUP Parser Generator for Java 0.10k for JDK 8 to 8u241
- CUP Parser Generator for Java 0.11b for JDK 8u251 and later
- DejaVu fonts v2.34 for JDK 8 to 8u241
- DejaVu fonts v2.37 for JDK 8u251
- Document Object Model (DOM) Level 2 & 3
- Dynalink v.5

- ECMAScript Language Specification ECMA-262 Edition 5.1
- Elliptic Curve Cryptography
- Eastman Kodak Company: Kodak Color Management System (kcms) and portions of color management and imaging software
- FontConfig 2.5 (Linux and Solaris only)
- freebXML v3.1
- GIFLIB v5.1.8 for JDK 8 to 8u241
- GIFLIB v5.2.1 for JDK 8u251 and later
- IAIK PKCS#11 Wrapper
- ICU4C 4.0.1 and ICU4J 4.4 for JDK 8 to 8u212
- ICU4J v60.2 for JDK 8u221 and later
- IJG JPEG 6b
- Jing v20030619
- JRuby Joni v1.1.9 for JDK 8 to 8u231
- JRuby Joni v2.1.16 for JDK 8u241 and later
- JOpt-Simple v3.0
- JSON
- Kerberos functionality from FundsXpress, INC.
- Khronos Group OpenGL Headers v2.1
- libpng 1.6.16 for JDK 8 to 8u212
- libpng 1.6.35 for JDK 8u221
- libpng 1.6.37 for JDK 8u231 and later
- libungif 4.1.3
- libXrandr v1.5.2 (Solaris only)
- Little CMS 2.5 for JDK 8 to 8u212
- Little CMS 2.9 for JDK 8u221 and later
- Mesa 3D Graphics Library v4.1 for JDK 8 to 8u212
- Mesa 3D Graphics Library v5 for JDK 8u221 to 8u241
- Mesa 3D Graphics Library v19.2.1 for JDK 8u251 and later
- Mozilla Elliptic Curve Cryptography (ECC)
- PC/SC Lite for Suse Linux v1.1.1 (Linux and Solaris only) for JDK 8 to 8u221
- PC/SC Lite for Suse Linux v1.8.24 (Linux and Solaris only) for JDK 8u231 and later
- PKCS #11 Cryptographic Token Interface v2.20 Amendment 3 Header Files
- PorterStemmer v4
- Relax NG Object/Parser v.20050510
- RelaxNG Datatype v1.0
- RelaxNGCC v1.12
- SoftFloat version 2b (Linux/ARM only)
- Sparkle 1.5 (macOS only)
- Thai Dictionary
- Unicode 6.2.0 & CLDR 21.0.1
- X Windows System 6.8.2 (Linux and Solaris only) for JDK 8 to 8u212
- Xfree86-VidMode Extension 1.0 (Linux and Solaris only)
- xorgproto v2018.4 (Linux and Solaris only) for JDK 8u221 and later
- XWD Utility v1.0.7 (Linux and Solaris only) for JDK 8u221 and later



- zlib v1.2.8 for JDK 8 to 8u212
- zlib v1.2.11 for JDK 8u221 and later
- on JavaFX
  - gstreamer v1.4.4
  - JPEG
  - libpng
  - libxml
  - libxslt
  - Webkit

### **On JMC 7, available as a separate download for JDK 7 and above**

- ASM Bytecode Manipulation Framework v7.0
- Eclipse Platform 4.8.0
- Eclipse Babel 0.15.1
- JavaBeans Activation Framework (JAF) 1.2.1
- Javamail 1.6.3
- OWASP Java Encoder Project 1.2.2
- Twitter4J 4.0.7
- on OpenJFX
  - 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 and later
  - GStreamer v1.14.4 for JMC 7
  - GStreamer 1.16.1 for JMC 7.0.1 and later
  - IBM International Components for Unicode (ICU4C) v62.1 for JMC 7
  - IBM International Components for Unicode (ICU4C) v64.2 for JMC 7.0.1 and later
  - Independent JPEG Group (IJG) JPEG v9c
  - Khronos Group OpenGL Headers v4.6
  - LibFFI v3.2.1
  - Mesa 3-D Graphics Library v5.0
  - xmlsoft.org: libxml2 v2.9.9
  - xmlsoft.org: libxslt v1.1.33 for JMC 7
  - xmlsoft.org: libxslt v1.1.34 for JMC 7.0.1 and later
  - WebKit Open Source Project: WebKit v608.1 for JMC 7
  - WebKit Open Source Project: WebKit v609.1 for JMC 7.0.1 and later

### **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

### **On JMC 5.5, included with JDK 8**

- ANTLR v3.2
- Apache Jakarta Commons Codec v1.6.0
- Apache Jakarta Commons HTTPClient 4.2.6
- Apache Jakarta Commons Logging v1.1.1
- Apache Log4J v1.2.15
- ASM 5.0.3
- Eclipse Babel v0.12.0
- Eclipse Modeling Framework v2.10.0
- Eclipse Rich Client Platform v4.4.1
- Google Guava v10.0.1
- Google Guice v3.0.0
- GreyChart
- Jetty v8.1.14
- Twitter4J v4.0.1
- Xtext v2.4.2

## Licensing Information

### ANTLR 3 and ANTLR v3.2

Copyright (c) 2003-2007, Terence Parr  
All rights reserved.

This software is distributed under the terms of the BSD-3 License  
A copy of the License appears below

### Apache Byte Code Engineering Library (BCEL) v5.2

Apache BCEL Notice

```
=====
=====
== NOTICE file corresponding to the section 4 d of ==
== the Apache License, Version 2.0, ==
== in this case for the Apache Jakarta-BCEL distribution. ==
=====
=====
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Abstract: Part of CoreAudio Utility Classes

Version: 1.1

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mesa-19.2.1\include\GL\gl.h :

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mesa-19.2.1\include\GL\glxext.h  
mesa-19.2.1\include\GL\glxext.h  
mesa-19.2.1\include\GL\wglxext.h :

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[xorgproto v2018.4](http://xorgproto v2018.4)

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## **Appendixes**

### **Appendix 1: Optional JRE Files and Directories**

The following optional files, found on the JRE installer or package, can be excluded for redistribution purposes:

lib/ext/ [Everything under this directory can be excluded]  
sunjce\_provider.jar, sunec.jar, sunpkcs11.jar and sunmscapi.jar -

JCA/JCE providers for Java Cryptography APIs. Some providers are not available on all OS or Architectures. The runtime environment must contain at least one implementation of each of the required Security algorithms as described in:

<http://docs.oracle.com/javase/8/docs/technotes/guides/security/StandardNames.html>

localedata.jar - contains many of the resources needed for non US English locales

dnsns.jar - for the InetAddress SSL of JNDI DNS provider

bin/rmid - [.exe, and .dll on Microsoft Windows] Java RMI Activation System Daemon

bin/rmiregistry - Java Remote Object Registry

bin/tnameserv - Java IDL Name Server

bin/keytool - Key and Certificate Management Tool

bin/kinit - [Microsoft Windows] Used to obtain and cache Kerberos ticket-granting tickets

bin/klist - [Microsoft Windows] Kerberos display entries in credentials cache and keytab

bin/ktab - [Microsoft Windows] Kerberos key table manager

bin/policytool - Policy File Creation and Management Tool

bin/orbd - Object Request Broker Daemon

bin/servertool - Java IDL Server Tool

bin/javaws and

lib/javaws.jar - Java Web Start

lib/jfr and

lib/jfr.jar - Flight Recorder Files

lib/oblique-fonts/\*

lib/desktop/\*

plugin/\*

When redistributing the JRE on Microsoft Windows as a private application runtime (not accessible by other applications) with a custom launcher, the following files are also optional. These are libraries and executables that are used for Java support in Internet Explorer and Mozilla family browsers.

bin\java.exe  
bin\javaw.exe  
bin\javaws.exe  
bin\javacpl.exe  
bin\jucheck.exe  
bin\dtplugin  
bin\jabswitch.exe  
bin\java\_crw\_demo.dll  
bin\JavaAccessBridge-32.dll  
bin\JavaAccessBridge.dll

```
bin\JAWTAccessBridge-32.dll
bin\JAWTAccessBridge.dll
bin\WindowsAccessBridge-32.dll
bin\WindowsAccessBridge.dll
bin\wsdetect.dll
bin\dtplugin\*
bin\plugin2\*
bin\deploy.dll
bin\jfr.dll
bin\javacpl.cpl
lib\deploy.jar
lib\plugin.jar
lib\deploy\*
```

**All JavaFX-related files may be excluded from redistribution.**

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```
THIRDPARTYLICENSEREADME-JAVAFX.txt
[As long as you don't include any other JavaFX related files]
- JavaFX third-party license information
lib/ant-javafx.jar - JavaFX packager ant tasks
lib/javafx.properties - JavaFX properties file
lib/jfxswt.jar
```

**JavaFX native libraries [Microsoft Windows]:**

```
bin\decora-sse.dll
bin\fxplugins.dll
bin\glass.dll
bin\glib-lite.dll
bin\gstreamer-lite.dll
bin\javafx-font.dll
bin\javafx_font_t2k.dll
bin\javafx-iiio.dll
bin\jfxmedia.dll
bin\jfxwebkit.dll
bin\prism_common.dll
bin\prism-d3d.dll
bin\prism_es2.dll
bin\prism_sw.dll
```

**JavaFX native libraries [Mac OS X]:**

```
lib/fxplugins.dylib
lib/libdecora_sse.so
lib/libdecora-sse.dylib
lib/libfxplugins.so
lib/libglass.dylib
lib/libglib-lite.dylib
lib/libgstreamer-lite.dylib
lib/libjavafx_font_t2k.dylib
lib/libjavafx-font.dylib
lib/libjavafx-iiio.dylib
lib/libjfxmedia.dylib
lib/libjfxwebkit.dylib
lib/libprism_common.dylib
lib/libprism_sw.dylib
lib/libprism-es2.dylib
```

```
JavaFX native libraries [Linux-i586]:
lib/i386/libdecora_sse.so
lib/i386/libfxplugins.so
lib/i386/libglass.so
lib/i386/libgstreamer-lite.so
lib/i386/libjavafx_font_freetype.so
lib/i386/libjavafx_font_pango.so
lib/i386/libjavafx_font_t2k.so
lib/i386/libjavafx-font.so
lib/i386/libjavafx-iio.so
lib/i386/libjfxmedia.so
lib/i386/libjfxwebkit.so
lib/i386/libprism_common.so
lib/i386/libprism_es2.so
lib/i386/libprism_sw.so
```

```
JavaFX native libraries [Linux-x64]:
lib/amd64/libdecora_sse.so
lib/amd64/libprism_common.so
lib/amd64/libprism_es2.so
lib/amd64/libprism_sw.so
lib/amd64/libfxplugins.so
lib/amd64/libglass.so
lib/amd64/libgstreamer-lite.so
lib/amd64/libjavafx_font_freetype.so
lib/amd64/libjavafx_font_pango.so
lib/amd64/libjavafx_font_t2k.so
lib/amd64/libjavafx-font.so
lib/amd64/libjavafx-iio.so
lib/amd64/libjfxmedia.so
lib/amd64/libjfxwebkit.so
lib/amd64/libprism-es2.so
```

These files are located in the JRE directory. Solaris and Linux filenames and separators are shown. Windows executables have the ".exe" suffix. Corresponding files with \_g in the name can also be excluded.

The corresponding man pages should be excluded for any excluded executables (with paths listed below beginning with bin/, for the Solaris™ Operating System and Linux).

## Appendix 2: Redistributable JDK Files

The limited set of files from the Java SE Development Kit (JDK) listed below may be included in redistributions of the Java SE Runtime Environment. All paths are relative to the top-level directory of the JDK. The corresponding man pages should be included for any included executables (with paths listed below beginning with bin/ , for the Solaris Operating System and Linux).

```
lib/cmm/PYCC.pf Color profile; This file is required only if one
    wishes to convert between the PYCC color space
    and another color space.
```

All .ttf font files in the lib/fonts directory

Note that the LucidaSansRegular.ttf font is already contained in the Java SE Runtime Environment, so there is no need to bring that file over from the JDK.

The javac bytecode compiler, consisting of the following files:

```
bin/javac [Solaris™ Operating System, Linux and OS X]
bin/sparcv9/javac [Solaris Operating System (SPARC(R) Platform
Edition)]
bin/amd64/javac [Solaris Operating System (AMD)]
bin\javac.exe [Microsoft Windows]
lib/tools.jar [All platforms]
```

lib/jconsole.jar The Jconsole application.

The dynamic attach mechanism consisting of the following files:

```
lib/tools.jar/ [All platforms]
jre/lib/sparcv9/libattach.so [Solaris Operating System (SPARC(R) Platform
Edition)]
jre/lib/i386/libattach.so [Linux (x86)]
jre/lib/amd64/libattach.so [Solaris Operating System (x64) and Linux (x64)]
jre\bin\attach.dll [Microsoft Windows]
```

**The dynamic attach mechanism is not available for the JDK on ARM.**

bin\server\ On Microsoft Windows platforms, the JDK includes both the Java HotSpot™ Server VM and Java HotSpot Client VM. However, the Java SE Runtime Environment for Microsoft Windows platforms includes only the Java HotSpot Client VM. Those wishing to use the Java HotSpot Server VM with the Java SE Runtime Environment may copy the JDK's jre\bin\server folder to a bin\server directory in the Java SE Runtime Environment. Software vendors may redistribute the Java HotSpot Server VM with their redistributions of the Java SE Runtime Environment.

```
bin/jarsigner
JAR Signing and verification tool.
```

```
src.zip
Archive of source files
```