

Licensing Information User Manual

Oracle Java SE 8 and Oracle Java SE 8 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 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. 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

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 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.

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	Oracle Java SE Embedded
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	Y
Java Deployment Technologies <ul style="list-style-type: none"> • Plugin • Web start 	Y	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	Y
Java SE Subscription Enterprise Performance Pack	N	Y	N	N	N	N	N
GraalVM Enterprise Edition	N	Y	N	Y	N	N	N
Java SE Development Kit for embedded devices	N	N	N	N	N	N	Y
Java Flight Recorder – for Desktop	N	Y	Y	Y	Y	Y	Y
Java Flight Recorder – for Server	N	Y	Y	N	N	Y	Y
Java/JDK Mission Control	N	Y	Y	Y	Y	Y	Y
Java SE Enterprise Installer	N	Y	Y	Y	Y	Y	N
JRE Usage Tracking	N	Y	Y	Y	Y	Y	Y

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

- 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
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
Oracle Java SE Subscription Enterprise Performance Pack	<p>High performance headless Java SE 8 runtime for server applications.</p> <p>Available only for Linux systems.</p>	<ul style="list-style-type: none"> - Java Runtime Environment - JRE Usage Tracking

GraalVM Enterprise Edition	Optimizing compiler for JVM-based applications. Can be used as an alternative just-in-time compiler or using the Native Image plugin it can be used to create Ahead-of-Time (AOT) compiled applications.	<ul style="list-style-type: none"> - Java SE Development Kit - Java Runtime Environment - Java Flight Recorder - GraalVM Enterprise Edition
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
Oracle TZUpdater	Utility for updating the time zone database, included with the Java Runtime Environment, with the information provided on the IANA Time Zone Database updates	

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

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

Entitled Products and Restricted Use Licenses

Java SE Product / Feature	Licensing Information
Java Mission Control	Restricted Use <p>Java Mission Control is 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 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 and monitored from four workstations.</p> <ul style="list-style-type: none">• 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
	<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"> • Use contents of the JRE installer/package, or • Extract the JRE from the JDK. <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>
GraalVM Enterprise Edition – Native Image Plugin	<p>The Native Image Features included with GraalVM are available as early adopter technology. As such, they are subject to significant, additional license restrictions and limitations contained in a separate download license available at https://www.oracle.com/downloads/licenses/graalvm-otn-license.html that you must accept in order to use the Native Image Features. Please carefully review this license before you download and use the Native Image Features.</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 8 Products

- Apache Commons Math 3.2
- Apache Derby 10.11.1.2 for JDK 8 to 8u172
- Apache Jakarta BCEL 5.1 for JDK 8 to 8u241
- Apache Commons Byte Code Engineering Library (BCEL) Version 6.0 for JDK 8u251
- Apache Commons Byte Code Engineering Library (BCEL) Version 6.3.1 for JDK 8u261 to 8u291
- Apache Commons Byte Code Engineering Library (BCEL) Version 6.4.1 for JDK 8u301 to 8u321
- Apache Commons Byte Code Engineering Library (BCEL) Version 6.5.0 for JDK 8u331 to 8u371
- Apache Commons Byte Code Engineering Library (BCEL) Version 6.7.0 for JDK 8u381 and later
- Apache Jakarta Regexp 1.4 for JDK 8 to 8u241
- Apache Santuario v1.5.4 for JDK 8 to 8u221
- Apache Santuario v2.1.3 for JDK 8u231 to 8u271
- Apache Santuario v2.1.4 for JDK 8u281 to 8u301
- Apache Santuario v2.2.1 for JDK 8u311 to 8u333
- Apache Santuario v2.3.0 for JDK 8u341 to 8u401
- Apache Santuario v3.0.3 for JDK 8u411 and later
- Apache Xalan 2.7.1 for JDK 8 to 8u212
- Apache Xalan 2.7.2 for JDK 8u221 to 8u401
- Apache Xalan 2.7.3 for JDK 8u411 and later
- Apache Xerces 2.10.0 for JDK 8 to 8u212
- Apache Xerces 2.11.0 for JDK 8u221 and 8u251
- Apache Xerces 2.12.1 for JDK 8u261 to 8u341
- Apache Xerces 2.12.2 for JDK 8u351 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) for JDK 8 to 8u351
- 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 and later
- 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 to 8u421
- GIFLIB v5.2.2 for JDK 8u431 and later
- IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1
- 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 to 8u271
- JRuby Joni v2.1.40 for JDK 8u281 to 8u351
- JRuby Joni v2.1.43 for JDK 8u361 to 8u401
- JRuby Joni v2.2.1 for JDK 8u411 and later
- JOpt-Simple v3.0
- JSON
- Kerberos functionality from FundsXpress, INC.
- Khronos Group OpenGL Headers v2.1 (on Linux, Solaris, and macOS)
- libpng 1.6.16 for JDK 8 to 8u212
- libpng 1.6.35 for JDK 8u221
- libpng 1.6.37 for JDK 8u231 to 8u361
- libpng 1.6.38 for JDK 8u371 to 8u381
- libpng 1.6.39 for JDK 8u391 to 8u401
- libpng 1.6.40 for JDK 8u411 to 8u421
- libpng 1.6.43 for JDK 8u431 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 to 8u271
- Little CMS 2.11 for JDK 8u281 to 8u291
- Little CMS 2.12 for JDK 8u301 to 8u361
- Little CMS 2.14 for JDK 8u371
- Little CMS 2.15 for JDK 8u381 to 8u411
- Little CMS 2.16 for JDK 8u421 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 to 8u301
- Mesa 3D Graphics Library v21.0.3 for JDK 8u311 and later
- PC/SC Lite v1.1.1 (Linux, Solaris, and macOS) for JDK 8 to 8u221
- PC/SC Lite v1.8.24 (Linux, Solaris, and macOS) for JDK 8u231 to 8u271
- PC/SC Lite v1.8.26 (Linux, Solaris, and macOS) for JDK 8u281 to 8u341
- PC/SC Lite v1.9.5 (Linux, Solaris, and macOS) for JDK 8u351 to 8u381
- PC/SC Lite v1.9.9 (Linux, Solaris, and macOS) for JDK 8u391 and later
- PKCS #11 Cryptographic Token Interface v2.20 Amendment 3 Header Files
- PKCS #11 Cryptographic Token Interface v2.40 for JDK 8u261 to 8u281
- PKCS #11 Cryptographic Token Interface v3.0 for JDK 8u291 and later

- PorterStemmer v4
- Relax NG Object/Parser v.20050510
- RelaxNG Datatype v1.0
- RelaxNGCC v1.12
- SoftFloat version 2b (Linux/ARM only)
- SipHash v1.0-68c8a7c for JDK 331 and later
- Sparkle 1.5 (macOS only) for JDK 8 to 8u251
- Sparkle 1.23 (macOS only) for JDK 8u261 to 8u321
- Sparkle 1.27 (macOS only) for JDK 8u331 to 8u381
- Sparkle 2.4.2 (macOS only) for JDK 8u391 and later
- 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 to 8u261
- xorgproto v2020.1 (Unix only) for JDK 8u271 to 8u311
- xorgproto v2021.4 (Unix only) for JDK 8u321 to 8u361
- xorgproto v2022.2 (Unix only) for JDK 8u371 to 8u421
- xorgproto v2023.2 (Unix only) for JDK 8u431 and later
- XWD Utility v1.0.7 (Linux and Solaris only) for JDK 8u221 and later
- zlib v1.2.8 (Windows only) for JDK 8 to 8u212
- zlib v1.2.11 (Windows only) for JDK 8u221 to 8u361
- zlib v1.2.13 (Windows only) for JDK 8u371 to 8u411
- zlib v1.3.1 (Windows only) for JDK 8u421 and later
- on JavaFX
 - GNU Glib v2.62.2 for JDK 8u251 to 8u291
 - GNU Glib v2.66.7 for JDK 8u301 to 8u333
 - GNU Glib v2.72.0 for JDK 8u341 to 8u401
 - GNU Glib v2.78.1 for JDK 8u411 and later
 - GStreamer 1.16.1 for JDK 8u251 to 8u291
 - GStreamer 1.18.3 for JDK 8u301
 - GStreamer 1.18.4 for JDK 8u311 to 8u333
 - GStreamer 1.20.1 for JDK 8u341 to 8u401
 - GStreamer 1.22.6 for JDK 8u411 and later
 - IBM International Components for Unicode (ICU4C) v64.2 for JDK 8u251 to 8u291
 - IBM International Components for Unicode (ICU4C) v68.2 for JDK 8u301 to 8u351
 - IBM International Components for Unicode (ICU4C) v71.1 for JDK 8u361 to 8u381
 - IBM International Components for Unicode (ICU4C) v73.1 for JDK 8u391 to 8u411
 - IBM International Components for Unicode (ICU4C) v74.2 for JDK 8u421 and later
 - Independent JPEG Group (IJG) JPEG v9d for JDK 8u251 to 8u351
 - Independent JPEG Group (IJG) JPEG v9e for JDK 8u361 to 8u411

- Independent JPEG Group (IJG) JPEG v9f for JDK 8u421 and later
- LibFFI v3.2.1 for JDK 8u221 to 8u261
- LibFFI v3.3 for JDK 8u271 to 8u333
- libFFI v3.4.2 for JDK 341 to 8u381
- libFFI v3.4.4 for JDK 391 and later
- Microsoft DirectShow Samples v156905
- Mesa 3-D Graphics Library v 19.2.1 for JDK 8u251 to 8u301
- Mesa 3-D Graphics Library v 21.0.3 for JDK 8u311 and later
- Mozilla Public Suffix List for JDK 8u291 and later
- xmlsoft.org: libxml2 v2.9.10 for JDK 8u251 to 8u301
- xmlsoft.org: libxml2 v2.9.12 for JDK 8u311 to 8u333
- xmlsoft.org: libxml2 v2.9.14 for JDK 8u341 to 8u371
- xmlsoft.org: libxml2 v2.10.4 for JDK 8u381 to 8u421
- xmlsoft.org: libxml2 v2.12.7 for JDK 8u431 and later
- xmlsoft.org: libxslt v1.1.34 for JDK for 8u251 to 8u333
- xmlsoft.org: libxslt v1.1.35 for JDK for 8u341 to 8u401
- xmlsoft.org: libxslt v1.1.39 for JDK for 8u411 and later
- WebKit Open Source Project: WebKit v609.1 for JDK 8u251 to 8u261
- WebKit Open Source Project: WebKit v610.1 for JDK 8u271 to 8u281
- WebKit Open Source Project: WebKit v610.2 for JDK 8u291 to 8u301
- WebKit Open Source Project: WebKit v612.1 for JDK 8u311 to 8u321
- WebKit Open Source Project: WebKit v613.1 for JDK 8u331 to 8u341
- WebKit Open Source Project: WebKit v614.1 for JDK 8u351 to 8u361
- WebKit Open Source Project: WebKit v615.1 for JDK 8u371 to 8u381
- WebKit Open Source Project: WebKit v615.1 for JDK 8u391 to 8u401
- WebKit Open Source Project: WebKit v617.1 for JDK 8u411 to 8u421
- WebKit Open Source Project: WebKit v619.1 for JDK 8u431 and later

On Enterprise Performance Pack, available as a separate download

- Apache Commons Byte Code Engineering Library (BCEL) Version 6.5.0 for JDK 8u345-perf to 8u371-perf
- Apache Commons Byte Code Engineering Library (BCEL) Version 6.7.0 for JDK 8u381-perf and later
- Apache Santuario v2.3.0 for JDK 8u345-perf to 8u401-perf
- Apache Santuario v3.0.3 for JDK 8u411-perf and later
- Apache Xalan 2.7.2 for JDK 8u345-perf to 8u401-perf
- Apache Xalan 2.7.3 for JDK 8u411-perf and later
- Apache Xerces 2.12.1 for JDK 8u345-perf
- Apache Xerces 2.12.2 for JDK 8u351-perf and later
- Apache XML Resolver 1.2
- ASM Bytecode Manipulation Framework v5.0.3
- c-libutl 20160225
- Cryptix AES 3.2.0
- CUP Parser Generator for Java 0.11b
- DOM Level 3 Core Specification v1.0
- Dynalink v.5
- Eastman Kodak Company: Portions of color management and imaging software

- Elliptic Curve Cryptography
- freebXML v3.1
- GIFLIB v5.2.1 for JDU 8u345-perf to 8u421-perf
- GIFLIB v5.2.2 for JDK 8u431-perf and later
- IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1
- ICU4J v60.2
- IJG JPEG 6b
- Joni v2.1.40 for JDK 8u345-perf to 8u351-perf
- Joni v2.1.43 for JDK 8u361-perf to 8u401-perf
- Joni v2.2.1 for JDK 8u411-perf and later
- jopt-simple v3.0
- libpng 1.6.37 for JDK 8u345-perf to 8u361-perf
- libpng 1.6.38 for JDK 8u371-perf to 8u381-perf
- libpng 1.6.39 for JDK 8u391-perf to 8u401-perf
- libpng 1.6.40 for JDK 8u411-perf to 8u421-perf
- libpng 1.6.43 for JDK 8u431-perf and later
- libXrandr v1.5.2
- Little CMS 2.12 for JDK 8u345-perf to 8u361-perf
- Little CMS 2.14 for JDK 8u371-perf
- Little CMS 2.15 for JDK 8u381-perf and later
- Little CMS 2.16 for JDK 8u421 and later
- Mesa 3D Graphics Library v21.0.3
- PC/SC Lite v1.8.26 for JDK 8u345-perf
- PC/SC Lite v1.9.5 for JDK 8u351-perf to 8u381-perf
- PC/SC Lite v1.9.9 for JDK 8u391-perf and later
- PKCS #11 Cryptographic Token Interface v3.0
- Relax NG Object/Parser v.20050510
- RelaxNG Datatype v1.0
- RelaxNGCC v1.12
- SipHash v1.0-68c8a7c
- Thai Dictionary
- Unicode 6.2.0 & CLDR 21.0.1
- xorgproto v2021.4 for JDK 8u345-perf to 8u361-perf
- xorgproto v2022.2 for JDK 8u371-perf to 8u421-perf
- xorgproto v2023.2 (Unix only) for JDK 8u431-perf and later
- XWD Utility v1.0.7

On JMC 9, available as a separate download for JDK 8

- Angus Mail 2.0.1
- ASM v9.6
- D3 7.7.0
- d3-graphviz 4.1.1
- d3-flame-graph 4.1.3

- Eclipse Platform 4.30.0
- Fireplace 0.0.1.rc3
- Font Awesome 6.5.1
- HdrHistogram 2.1.12
- hpcc-js-wasm 1.14.1
- lz4 -java 1.8.0
- Jetty 10.0.18
- OWASP Java Encoder Project 1.2.3
- Radiance 6.0.0
- SPI Fly 1.3.6

On JMC 5.5, included with JDK for JDK 8 to 8u251

- 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

[Angus Mail v2.0.1](#)

Eclipse Public License - v 2.0. A copy of the license appears below.

The GNU General Public License (GPL) Version 2, June 1991. A copy of the license appears below.

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CLASSPATH EXCEPTION

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Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

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Notice.md
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Notices for Jakarta Mail

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angus-activation

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Abstract: Part of CoreAudio Utility Classes
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org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Version 1.1 - 26 February 2007

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Some of the ideas behind libffi were inspired by Gianni Mariani's free gencall library for Silicon Graphics machines.

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GL/ glxext.h Khronos  
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KHR/ khrplatform.h Khronos

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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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GL/wglexth Khronos  
KHR/khrplatform.h Khronos

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include/GL/gl.h :

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Vigna, Sebastiano (2014). "Further scramblings of Marsaglia's xorshift generators". arXiv:1404.0390 (<http://arxiv.org/abs/1404.0390>)

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This contains code taken from LLVM's APInt class. That code implements finding the magic numbers for strength-reducing division. The LLVM code on which this code is based was implemented using "Hacker's Delight", Henry S. Warren, Jr., chapter 10.

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Source/WebCore/html/parser  
Source/WebCore/loader  
Source/WebCore/platform/mediastream/libwebrtc

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Vigna, Sebastiano (2014). "Further scramblings of Marsaglia's xorshift generators". arXiv:1404.0390 (<http://arxiv.org/abs/1404.0390>)

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This contains code taken from LLVM's APInt class. That code implements finding the magic numbers for strength-reducing division. The LLVM code on which this code is based was implemented using "Hacker's Delight", Henry S. Warren, Jr., chapter 10.

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What about fair use?

In limited situations, you can use copyrighted works without permission from the copyright holder. It can be difficult to figure out whether use of copyrighted works without permission is legal, though, because the laws in this area are often vague and vary from country to country.

The copyright law in the United States has a doctrine called “fair use”. Fair use provides a defense to copyright infringement in some circumstances. For example, fair use allows documentary filmmakers to use very short clips of copyrighted movies, music and news footage without permission from the copyright owner. Fair use is a difficult concept because determining whether something is a fair use involves weighing four factors. Unfortunately, weighing the fair use factors rarely results in a clear-cut answer.

Rather than applying a fair use test, many other countries have specific exceptions to copyright infringement. The number and type of exceptions vary by country, but they frequently allow copyrighted materials to be used without permission from the copyright holder for activities such as nonprofit research, teaching, news reporting, or private study.

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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
```



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-iio.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-iio.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-iiio.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