# Licensing Information User Manual Oracle Java SE and Oracle Java Embedded Products Last updated: 2018/03/19

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# **Title and Copyright Information**

#### Introduction

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# **Licensing Information**

# **Description of Product Editions and Permitted Features**

The Java SE and Oracle Java 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 Java SE products and a single 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 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 <u>Oracle Technology Network Developer License Agreement</u>. 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 Java SE and 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 Advanced	Oracle Java SE Advanced Desktop	Oracle Java SE Suite	Oracle Java SE Embedded
Java Runtime Environment (JRE)	Y	Υ	Υ	Υ	Υ
<ul> <li>Java Virtual Machine (JVM)</li> <li>Java Standard Libraries</li> <li>JavaFX Runtime</li> </ul>					
Java Deployment Technologies	Y	Υ	Y	Y	Y
<ul><li>Plugin</li><li>Web start</li></ul>					
Java SE Development Kit (JDK)	Υ	Y	Y	Y	Y
<ul><li>JavaFX SDK Libraries</li></ul>					
JRockit Development Kit	Y	Y	Y	Y	N
Java SE Development Kit for embedded devices	N	N	N	N	Y
Java Flight Recorder – for Desktop	N	Y	Υ	Υ	Y
Java Flight Recorder – for Server	N	Y	N	Υ	Y
Java Mission Control	N	Υ	Y	Υ	Y
Java Advanced Management Console	N	Y	Y	Υ	N
Java SE Enterprise Installer	N	Υ	Y	Y	N
JRE Usage Tracking	N	Υ	Υ	Y	Υ
JRockit Real Time Deterministic GC	N	N	N	Y	N

JRockit Flight Recorder	N	Υ	N	Y	N
JRockit Mission Control	N	Υ	N	Y	N
<ul> <li>JRockit         Mission         Control         Console         observability</li> <li>JRockit         Mission         Control         Memory Leak         Detector         observability</li> </ul>					

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
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> <li>- Java Runtime Environment</li> <li>- Java Deployment</li> <li>Technologies (Plugin &amp; Webstart)</li> <li>- Java Flight Recorder</li> <li>- JRE Usage Tracking</li> </ul>
Oracle Java SE Runtime Environment (JRE) - MSI Installer	Same content as the JRE Standard Installer but packaged in a format optimized for mass automated distribution, rather than for manual installation. Available only for Windows systems.	<ul> <li>- Java Runtime Environment</li> <li>- Java Deployment</li> <li>Technologies (Plugin &amp; Webstart)</li> <li>- Java Flight Recorder</li> <li>- JRE Usage Tracking</li> <li>- Java SE Enterprise Installer</li> </ul>
Oracle Java SE Runtime Environment (JRE) - Server Installer	Similar content to that of the JRE Standard Installer but includes tools and components typically required for running and monitoring Java Server applications.  Excludes Java Deployment Technologies	<ul><li>Java Runtime Environment</li><li>Java Flight Recorder</li><li>JRE Usage Tracking</li></ul>
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> <li>- Java SE Development Kit</li> <li>- Java Runtime Environment</li> <li>- Java Deployment</li> <li>Technologies (Plugin &amp; Webstart)</li> <li>- Java Flight Recorder</li> <li>- JRE Usage Tracking</li> <li>- Java Mission Control</li> </ul>

Java Mission Control (Eclipse Plugin)	Plugin for using Java Mission Control as an Eclipse Add-on. Requires Eclipse Rich Client Platform (RCP) which is separately available from the Eclipse Foundation's website. Oracle does not provide support for the Java Mission Control Eclipse Plugin.	- Java Mission Control
Java Advanced Management Console	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.  Also includes tools for customizing the Windows MSI Installer.	<ul> <li>Java Advanced Management Console</li> <li>Java SE Enterprise Installer</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> </ul>
JRockit JDK	Similar to the Oracle Java SE Development Kit but includes the JRockit virtual machine instead of the more current Hotspot virtual machine.	<ul> <li>JRockit JDK</li> <li>Java Runtime Environment</li> <li>JRockit Flight Recorder</li> <li>JRockit Mission Control</li> <li>JRockit Real Time</li> <li>Deterministic GC</li> </ul>
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	

Oracle Java Access Bridge	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.	
	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.	
JavaFX	Includes the JavaFX runtime and	- JavaFX Runtime
Runtime	JavaFX SDK Libraries.	- JavaFX SDK Libraries
	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.	

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
All Oracle Java SE Products that	Restricted Use
include Java Advanced Management Console 2.0 and later versions	Oracle WebLogic Server Standard Edition may be used solely for running the Java Advanced Management Console 2.0 and later versions
Java Mission Control and JRockit	Restricted Use
Mission Control	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.
	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.
	For Example: A company has 10 servers licensed for Java Flight Recorder (or JRockit Flight Recorder if using JRockit) and monitored from four workstations.
	<ul> <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.

#### Java SE Runtime Environment

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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).

#### For Java SE 8 either:

- Use contents of the JRE installer/package, or
- Extract the JRE from the JDK.

In either case you are permitted to trim out the optional files listed in *Appendix 1: Optional JRE Files and Directories* and you may include the Redistributable files from *Appendix 2: Redistributable JDK Files*.

#### For Java SE 9 and later versions either:

- Use 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.

Appendix 1 and 2 are not applicable to Java SE 9 and later versions.

# **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.

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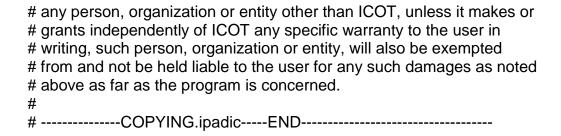
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		will support it.) So far as we are aware, there are
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		The IJG distribution formerly included code to
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		To avoid entanglement with the Unisys LZW
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\* Author: Jim Fulton, MIT The Open Group

\*

\* Xlib Extension-Writing Utilities

\*

- \* This package contains utilities for writing the client API for various
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		support for arithmetic coding has been removed from the free JPEG software.
		(Since arithmetic coding provides only a marginal gain over the unpatented
		Huffman mode, it is unlikely that very many
		implementations will support it.) So far as we are aware, there are no patent
		restrictions on the remaining code.
		The IJG distribution formerly included code to read and write GIF files.
		To avoid entanglement with the Unisys LZW patent, GIF reading support has
		been removed altogether, and the GIF writer has been simplified to produce
		"uncompressed GIFs". This technique does not use the LZW algorithm; the
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What is copyright?

Copyright law protects original works, such as websites, books, music, paintings, photos and video. A work is "original" if it contains some elements

you created and did not borrow from others. Typically, when you create an original work, you own the copyright. As the copyright owner, you can control how others use your work. For example, if you write a movie script, you have the right to, and can prevent others from, copying your script, sharing it with others ("distributing it"), making a movie or book from your script (a "derivative work"), or publicly performing your script as a play or movie. You also have the ability to sell or give away these rights. In other words, you could sell the right to make a movie based on your script to a movie studio.

If you use someone else's copyrighted materials without permission, that use generally violates the copyright owner's exclusive rights, and is copyright infringement. So if you create a new work and include parts of other people's works in it (such as an existing photo, lengthy quotes from a book or a loop from a song), you must own or have permission to use the elements you borrow. For example, if your script is based on an existing popular series, you should obtain permission to use the elements you borrow from the series.

Copyright law is different from the law of personal property. If you buy a physical object, such as a movie on DVD, you own the physical object. You do not, however, obtain ownership of the "copyrights" (the rights to make copies, distribute, make derivatives and publicly perform or display) in the content of the movie. The fact that you have obtained physical possession of a DVD does not automatically grant you the right to copy or share it.

If you make your own movie, it may include many copyrighted works in it. So, if you decide to make a movie based on your script, you must either create all elements of it on your own, or have permission to use the elements you borrow. Especially keep in mind that photos or artwork hanging on the walls of your sets and music on the soundtrack (even if you own the CD or MP3) may be copyrighted. You should not include copyrighted works such as these in your movie without authorization.

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Determining the term of copyright can be complex, particularly because copyright laws vary from country to country. Also, even if the copyright on a work has

expired, you should be careful about how you use a public domain work. For example, a book may be in the public domain, but it might not be ok to scan the book cover to cover and post it on the internet. This is because the particular version of the book may contain new copyrightable material that is not in the public domain, such as cover art or footnotes.

#### 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.

If you incorrectly decide that something is a fair use or falls into an exception to copyright infringement, you could be held criminally and civilly liable and have to pay damages. We suggest you talk to a lawyer if you have questions regarding fair uses of copyrighted works.

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run. TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION 0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library. Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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- 2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
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parties under the terms of this License. d) If a facility in the modified Library refers to a function or a table of data to

be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful. (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library. In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License. 3. You may opt to apply the terms of the ordinary GNU General Public License instead

3. You may opt to apply the terms of the ordinary GNU General Public License instea of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

modified definitions.) b) Use a suitable shared library mechanism for linking with the Library. A suitable

mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with. c) Accompany the work with a written offer, valid for at least three years, to give

the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution. d) If distribution of the work is made by offering access to copy from a designated

place, offer equivalent access to copy the above specified materials from the same place. e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy. For an executable, the required form of the "work that uses the Library" must

include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

- 7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.] Preamble

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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# **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.

#### All JavaFX related files:

```
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-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