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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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 [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 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.
<table>
<thead>
<tr>
<th>Feature</th>
<th>Oracle Java SE</th>
<th>Oracle Java SE Advanced</th>
<th>Oracle Java SE Advanced Desktop</th>
<th>Oracle Java SE Suite</th>
<th>Oracle Java SE Embedded</th>
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<td>• Java Standard Libraries</td>
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<td>• JavaFX Runtime</td>
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<td>• Web start</td>
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<td>• JavaFX SDK Libraries</td>
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<td>Y</td>
<td>Y</td>
<td>Y</td>
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<tr>
<td>Java SE Development Kit for embedded devices</td>
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<tr>
<td>Java Flight Recorder – for Server</td>
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<td>JRocket Real Time Deterministic GC</td>
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<tr>
<td>JRockit Flight Recorder</td>
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<tr>
<td>JRockit Mission Control</td>
<td>N</td>
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<td>N</td>
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</tr>
</tbody>
</table>

- JRockit Mission Control Console observability
- JRockit Mission Control Memory Leak Detector observability

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

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

Installation packages

There are no installers or packages that correspond directly with the Oracle Java SE 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.
<table>
<thead>
<tr>
<th>Package</th>
<th>Contents</th>
<th>Features Available</th>
</tr>
</thead>
</table>
| **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. | - Java Runtime Environment  
- Java Deployment Technologies (Plugin & Web start)  
- Java Flight Recorder  
- JRE Usage Tracking |
| **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. | - 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** | 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 | - 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. | - Java SE Development Kit  
- Java Runtime Environment  
- Java Deployment Technologies (Plugin & Web start)  
- Java Flight Recorder  
- JRE Usage Tracking  
- Java Mission Control |
<p>| <strong>Java Mission Control (Eclipse Plugin)</strong> | 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 |
| <strong>Java Advanced Management Console</strong> | 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. | - Java Advanced Management Console - Java SE Enterprise Installer - Java Runtime Environment - Java Deployment Technologies (Plugin &amp; Web start) - Java Flight Recorder - JRE Usage Tracking |
| <strong>JRockit JDK</strong> | Similar to the Oracle Java SE Development Kit but includes the JRockit virtual machine instead of the more current Hotspot virtual machine. | - JRockit JDK - Java Runtime Environment - JRockit Flight Recorder - JRockit Mission Control - JRockit Real Time Deterministic GC |
| <strong>Oracle TZUpdater</strong> | 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>
<table>
<thead>
<tr>
<th><strong>Oracle Java Access Bridge</strong></th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JavaFX Runtime</strong></td>
<td>Includes the JavaFX runtime and 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.</td>
</tr>
<tr>
<td></td>
<td>- JavaFX Runtime</td>
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<td></td>
<td>- JavaFX SDK Libraries</td>
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</table>

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

<table>
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<tr>
<th>Java SE Product / Feature</th>
<th>Licensing Information</th>
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<tbody>
<tr>
<td>All Oracle Java SE Products that include Java Advanced Management Console 2.0 and later versions</td>
<td>Restricted Use&lt;br&gt;Oracle WebLogic Server Standard Edition may be used solely for running the Java Advanced Management Console 2.0 and later versions</td>
</tr>
</tbody>
</table>
| Java Mission Control and JRockit Mission Control              | Restricted Use<br>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.<br>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.<br>For Example: A company has 10 servers licensed for Java Flight Recorder (or JRockit Flight Recorder if using JRockit) and monitored from four workstations.<br>  - 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<br>  - 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
analyses recordings done on (or connects to) the company’s licensed systems.

<table>
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<tr>
<th>Java SE Runtime Environment</th>
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<tr>
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<td>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).</td>
</tr>
</tbody>
</table>

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.

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Oracle Java SE 10 Products
<table>
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<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
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</table>
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<td>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 &quot;uncompressed GIFs&quot;. This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.</td>
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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
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What about fair use?

In limited situations, you can use copyrighted works without permission from the
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The copyright law in the United States has a doctrine called “fair use”. Fair
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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 sunmscap.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.dylib
lib/libdecora-sse.dylib
lib/libfxplugins.dylib
lib/libglass.dylib
lib/libglass.dylib
lib/libglass.dylib
lib/libgstreamer-lite.dylib
lib/libjavafx_font_t2k.dylib
lib/libjavafx-font.dylib
lib/libjavafx-iio.dylib
lib/libfxmedia.dylib
lib/libfxwebkit.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/libfxmedia.so
lib/i386/libfxwebkit.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/libfxmedia.so
lib/amd64/libfxwebkit.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.

dsourc.zip

Archive of source files