Licensing Information User Manual
Oracle Java SE 11
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Title and Copyright Information

Introduction

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Licensing Information

Description of Product Editions

The Java SE products provide the features required to develop, debug, distribute, run, monitor, and manage Java Applications in many different environments, from cloud providers, to servers, to desktops, to constrained devices.
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The Java SE products include experimental and technology preview features being considered for future versions of the product. Experimental and technology preview features are labeled as such in the product documentation. They are not meant to be used in production and are not supported by Oracle. Oracle welcomes feedback on experimental and technology preview features but users should be aware that experimental and technology preview features might never be included in a production version, or might change significantly before being considered production-ready.

Installation packages

There are no installers or packages that correspond directly with the Oracle Java SE products listed above.

Package	Contents
Oracle Java SE Development Kit (JDK)	Everything required for developing, debugging documenting, running, and monitoring Java applications including a Java Virtual Machine and many common Java Libraries.
Oracle TZUpdater	Utility for updating the Java Runtime Environment time zone database, with the latest information provided by the IANA Time Zone Database at https://www.iana.org/time-zones

Prerequisite Products

Java SE 11 has no prerequisite products.

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Third party components on Oracle JDK

- **java.base**
  - ASM Bytecode Manipulation Framework v6.0
  - c-libutl 20160225
  - Cryptix AES v3.2.0
  - GCC - libgcc and libstdc++ 14.2.0 (Linux only) for JDK 11.0.31 and later
  - International Components for Unicode (ICU4J) v60.2
  - Mozilla Public Suffix List
  - SipHash v1.0-68c8a7c for 11.0.15 and later
  - The Unicode Standard, Unicode Character Database, Version 10.0.0
  - Unicode Common Local Data Repository (CLDR) v33
  - zlib v1.2.11 (Windows only) for JDK 11 to 11.0.18
  - zlib v1.2.13 (Windows only) for JDK 11.0.19 to 11.0.23
  - zlib v1.3.1 (Windows only) for JDK 11.0.24 to 11.0.31
  - zlib v1.3.2 (Windows only) for JDK 11.0.32 and later

- **java.desktop**
  - Eastman Kodak Company: Portions of color management and imaging software
  - The FreeType Project: Freetype v2.9.1 (macOS and Windows only) for JDK 11 to 11.0.4
  - The FreeType Project: Freetype v2.10.0 (macOS and Windows only) for JDK 11.0.5 to 11.0.6
  - The FreeType Project: Freetype v2.10.1 (macOS and Windows only) for JDK 11.0.7 to 11.0.9
  - The FreeType Project: Freetype v2.10.2 (macOS and Windows only) for JDK 11.0.10 to 11.0.11
  - The FreeType Project: Freetype v2.10.4 (macOS and Windows only) for JDK 11.0.12 to 11.0.16
  - The FreeType Project: Freetype v2.12.1 (macOS and Windows only) for JDK 11.0.17 to 11.0.20
  - The FreeType Project: Freetype v2.13.0 (macOS and Windows only) for JDK 11.0.21 to 11.0.22
  - The FreeType Project: Freetype v2.13.2 (macOS and Windows only) for JDK 11.0.23 to 11.0.27
  - The FreeType Project: Freetype v2.13.3 (macOS and Windows only) for JDK 11.0.28 to 11.0.30
  - The FreeType Project: Freetype v2.14.2 (macOS and Windows only) for JDK 11.0.31 to 11.0.32.1
  - The FreeType Project: Freetype v2.14.3 (macOS and Windows only) for JDK 11.0.33 and later
  - GIFLIB v5.1.4 for JDK 11 to 11.0.3
  - GIFLIB v5.1.8 for JDK 11.0.4 to 11.0.6
  - GIFLIB v5.2.1 for JDK 11.0.7 to 11.0.24
  - GIFLIB v5.2.2 for JDK 11.0.25 to 11.0.31
  - GIFLIB v6.1.2 for JDK 11.0.32 to 11.0.32.1

- GIFLIB v6.1.3 for JDK 11.0.33 and later
- Harfbuzz v1.8.2 for JDK 11 to 11.0.3
- Harfbuzz v2.3.1 for JDK 11.0.4 to 11.0.10
- Harfbuzz v2.7.2 for JDK 11.0.11 to 11.0.12
- Harfbuzz v2.8 for JDK 11.0.13 to 11.0.16
- Harfbuzz v4.4.1 for JDK 11.0.17 to 11.0.19
- Harfbuzz v7.0.1 for JDK 11.0.20
- Harfbuzz v7.2.0 for JDK 11.0.21 to 11.0.22
- Harfbuzz v8.2.2 for JDK 11.0.23 to 11.0.27
- Harfbuzz v10.4.0 for JDK 11.0.28
- Harfbuzz v11.2.0 for JDK 11.0.29 to 11.0.31
- Harfbuzz v12.3.2 for JDK 11.0.32 to 11.0.32.1
- Harfbuzz v14.2.0 for JDK 11.0.33 and later
- Independent JPEG Group: JPEG release 6b
- Khronos Group OpenGL Headers v2.1 (Linux and Solaris Only)
- Little Color Management System (LCMS) v2.9
- Little Color Management System (LCMS) v2.11 for JDK 11.0.11
- Little Color Management System (LCMS) v2.12 for JDK 11.0.12 to 11.0.18
- Little Color Management System (LCMS) v2.14 for JDK 11.0.19
- Little Color Management System (LCMS) v2.15 for JDK 11.0.20 to 11.0.23
- Little Color Management System (LCMS) v2.16 for JDK 11.0.24 to 11.0.27
- Little Color Management System (LCMS) v2.17 for JDK 11.0.28 to 11.0.31
- Little Color Management System (LCMS) v2.19.1 for JDK 11.0.32 and later
- libpng v1.6.35
- libpng v1.6.37 for JDK 11.0.5 to 11.0.18
- libpng v1.6.38 for JDK 11.0.19 to 11.0.20
- libpng v1.6.30 for JDK 11.0.21 to 11.0.22
- libpng v1.6.40 for JDK 11.0.23 to 11.0.24
- libpng v1.6.43 for JDK 11.0.25 to 11.0.27
- libpng v1.6.47 for JDK 11.0.28 to 11.0.30
- libpng v1.6.54 for JDK 11.0.31
- libpng v1.6.57 for JDK 11.0.32 to 11.0.32.1
- libpng v1.6.58 for JDK 11.0.33 and later
- Mesa 3-D Graphics Library v4.1 for JDK 11 to 11.0.3
- Mesa 3-D Graphics Library v5.0 for JDK 11.0.4 to 11.0.6
- Mesa 3-D Graphics Library v19.2.1 for JDK 11.0.7 to 11.0.12
- Mesa 3-D Graphics Library v21.0.3 for JDK 11.0.13 and later
- PipeWire 0.3.68 (Linux and macOS only) for JDK 11.0.26 to 11.0.27
- PipeWire 1.3.81 (Linux and macOS only) for JDK 11.0.28 and later
- X Windows System v6.8.2 for JDK 11 to 11.0.3 (Unix Only)
- xwd v1.0.7 for JDK 11.0.4 and later (Unix Only)

- **java.smartcardio**
  - PC/SC Lite v1.1.1 (Linux, Solaris, and macOS Only)
  - PC/SC Lite v1.8.26 (Linux, Solaris, and macOS Only) for JDK 11.0.10 to 11.0.16
  - PC/SC Lite v1.9.5 (Linux, Solaris, and macOS Only) for JDK 11.0.17 to 11.0.20

- PC/SC Lite v1.9.9 (Linux, Solaris, and macOS Only) for JDK 11.0.21 to 11.0.26
- PC/SC Lite v2.3.0 (Linux, Solaris, and macOS Only) for JDK 11.0.27 and later

- **java.xml.crypto**
  - Apache Santuario v2.1.1
  - Apache Santuario v2.1.3 for JDK 11.0.5 to JDK 11.0.7
  - Apache Santuario v2.1.4 for JDK 11.0.8 to JDK 11.0.12
  - Apache Santuario v2.2.1 for JDK 11.0.13 to 11.0.15.1
  - Apache Santuario v2.3.0 for JDK 11.0.16 to 11.0.22
  - Apache Santuario v3.0.3 for JDK 11.0.23
  - Apache Santuario v3.0.5 for JDK 11.0.29 and later

- **java.xml**
  - Apache Commons Byte Code Engineering Library (BCEL) Version 6.0
  - Apache Commons Byte Code Engineering Library (BCEL) Version 6.3.1 for JDK 11.0.6 to 11.0.11
  - Apache Commons Byte Code Engineering Library (BCEL) Version 6.4.1 for JDK 11.0.12 to 11.0.14
  - Apache Commons Byte Code Engineering Library (BCEL) Version 6.5.0 for JDK 11.0.15 to 11.0.19
  - Apache Commons Byte Code Engineering Library (BCEL) Version 6.7.0 for JDK 11.0.20 to 11.0.30
  - Apache Commons Byte Code Engineering Library (BCEL) Version 6.10.0 for JDK 11.0.31 and later
  - Apache Xalan v2.7.2 for JDK 11 to JDK 11.0.22
  - Apache Xalan v2.7.3 for JDK 11.0.23 and later
  - Apache Xerces v2.11.0 for JDK 11 to 11.0.4
  - Apache Xerces v2.12.0 for JDK 11.0.5 to 11.0.7
  - Apache Xerces v2.12.1 for JDK 11.0.8 to 11.0.16
  - Apache Xerces v2.12.2 for JDK 11.0.17 and later
  - CUP Parser Generator for Java v 0.10k for JDK 11 to 11.0.6
  - CUP Parser Generator for Java v 0.11b for JDK 11.0.7 and later
  - DOM Level 3 Core Specification v1.0

- **jdk.crypto.cryptoki**
  - IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1
  - PKCS #11 Cryptographic Token Interface v2.20 Amendment 3 Header Files
  - OASIS PKCS #11 Cryptographic Token Interface v2.40 for JDK 11.0.6 to 11.0.10
  - OASIS PKCS #11 Cryptographic Token Interface v3.0 for JDK 11.0.11 to 11.0.26
  - OASIS PKCS #11 Cryptographic Token Interface v3.1 for JDK 11.0.27 and later

- **jdk.crypto.ec**
  - Mozilla Elliptic Curve Cryptography (ECC)

- **jdk.dynalink**
  - Dynalink v.5

- **jdk.internal.le**
  - JLine v2.14.6 for JDK 11 to 11.0.8
  - JLine v3.12.1 for JDK 11.0.9 to JDK 11.0.10
  - JLine v3.14 for JDK 11.0.11 to JDK 11.0.14
  - Jline v3.20 for JDK 11.0.15 to 11.0.19
  - Jline v3.22 for JDK 11.0.20 to 11.0.26
  - Jline v3.26.1 for JDK 11.0.27 to 11.0.31
  - Jline v3.29.0 for JDK 11.0.32 and later

- **jdk.internal.opt**
  - jopt-simple v5.0.4

- **jdk.javadoc**
  - DejaVu fonts v2.34 for JDK 11 to 11.0.6
  - DejaVu fonts v2.37 for JDK 11.0.7 and later
  - jQuery Migrate v3.0.1
  - JQuery v3.3.1 for JDK 11 to JDK 11.0.4
  - JQuery v3.4.1 for JDK 11.0.5 to 11.0.8
  - JQuery v.3.5.1 for JDK 11.0.9 to 11.0.16
  - JQuery v.3.6.0 for JDK 11.0.17 to 11.0.18
  - JQuery v.3.6.1 for JDK 11.0.19 to 11.0.24
  - JQuery v.3.7.1 for JDK 11.0.25 and later
  - jQuery UI v1.11.4 for JDK 11 to 11.0.3
  - jQuery UI v1.12.1 for JDK 11.0.4 to 11.0.19
  - jQuery UI v1.13.2 for JDK 11.0.20 to 11.0.28
  - jQuery UI v1.14.1 for JDK 11.0.29 and later
  - JSZip v3.1.5 for JDK 11 to JDK 11.0.7
  - JSZip v3.2.2 for JDK 11.0.8 to 11.0.12
  - JSZip v3.7.1 for JDK 11.0.13 to 11.0.18
  - JSZip v3.10.1 for JDK 11.0.19 to 11.0.25
  - Pako v1.0

- **jdk.localedata**
  - Thai Dictionary
  - Unicode Common Local Data Repository (CLDR) v33

- **jdk.scripting.nashorn**
  - Double-conversion v1.1.5
  - Double-conversion v3.1.5 for JDK 11.0.6 to 11.0.18
  - Double-conversion v3.2.0 for JDK 11.0.19 and later
  - JRuby Joni v1.1.9
  - JRuby Joni v2.1.40 for JDK 11.0.1 to 11.0.17
  - JRuby Joni v2.1.43 for JDK 11.0.18 to 11.0.22

- JRuby Joni v2.2.1 for JDK 11.0.23 to 11.0.27
- JRuby Joni v2.2.5 for JDK 11.0.28 and later

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Cryptix AES v3.2.0

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ASM Bytecode Manipulation Framework v6.0

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c-libutl 20160225

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GCC - libgcc and libstdc++ 14.2.0

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Version 3.1, 31 March 2009
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phase. Notwithstanding that, Target Code does not include data in any
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for producing a compiler intermediate representation.
The "Compilation Process" transforms code entirely represented in
non-intermediate languages designed for human-written code, and/or in
Java Virtual Machine byte code, into Target Code. Thus, for example,
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SipHash v1.0-68c8a7c

SipHash reference C implementation

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```

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Ext headers GL/glext.h Khronos
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---
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set-immediate-shim 1.0.1
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Module Name: immediate
Version: 3.0.6

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core-util-is@1.0.2
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isarray@1.0.0

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safe-buffer@5.1.2

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string_decoder@1.1.1
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util-deprecate@1.0.2

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Module Name: immediate
Version: 3.0.6

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isarray@1.0.0

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process-nextick-args@2.0.1
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safe-buffer@5.2.1

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string_decoder@1.3.0
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util-deprecate@1.0.2

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