

Licensing Information User Manual

Oracle Java SE 21

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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 21 has no prerequisite products.

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Third party components on Oracle JDK

- Module java.base
 - Cryptix AES v3.2.0
 - ASM Bytecode Manipulation Framework v9.3
 - c-libutl 20160225
 - Unicode Common Local Data Repository (CLDR) v43.0
 - International Components for Unicode (ICU4J) v72.1
 - Mozilla Public Suffix List
 - The Unicode Standard, Unicode Character Database, Version 15.0.0
 - Bert Belder: wepoll v 1.5.8 (Windows only)
 - zlib v1.2.13 (Windows only)
- Module java.desktop
 - Eastman Kodak Company: Portions of color management and imaging software
 - The FreeType Project: Freetype v2.13.0
 - GIFLIB v5.2.1
 - Harfbuzz v7.2 for JDK 21 to 21.0.1
 - Harfbuzz v8.2.2 for JDK 21.0.2 and later
 - Independent JPEG Group: JPEG release 6b
 - Little Color Management System (LCMS) v2.15
 - libpng v1.6.39 for JDK 21 to 21.0.1
 - libpng v1.6.40 for JDK 21.0.2 and later
 - Mesa 3-D Graphics Library v21.0.3
 - PipeWire 0.3.68
 - xwd v1.0.7 (Linux only)
- Module java.smartcardio
 - PC/SC Lite v1.9.9 (Linux and macOS only)
- Module java.xml.crypto
 - Apache Santuario v3.0.2
- Module java.xml
 - Apache Commons Byte Code Engineering Library (BCEL) Version 6.7.0
 - DOM Level 3 Core Specification v1.0
 - CUP Parser Generator for Java v 0.11b
 - Apache Xalan v2.7.2
 - Apache Xerces v2.12.2
- Module jdk.crypto.cryptoki
 - OASIS PKCS #11 Cryptographic Token Interface v3.0
 - IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1
- Module jdk.dynalink
 - Dynalink v.5
- Module jdk.internal.le
 - JLine v3.22.0
- Module jdk.internal.opt
 - jopt-simple v5.0.4

- Module jdk.javadoc
 - DejaVu fonts v2.37
 - jQuery v3.6.1
 - jQuery UI v1.13.2
- Module jdk.localedata
 - Unicode Common Local Data Repository (CLDR) v43.0
 - Thai Dictionary

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ASM Bytecode Manipulation Framework v9.3

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[Bert Belder: wepoll v 1.5.8](#)

wepoll - epoll for Windows

<https://github.com/piscisaureus/wepoll>

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[CUP Parser Generator for Java v 0.11b](#)

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