

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

### 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)
  - SipHash v1.0-68c8a7c
- Module java.desktop
  - Eastman Kodak Company: Portions of color management and imaging software
  - The FreeType Project: Freetype v2.13.0 (macOS and Windows only) for JDK 21 to 21.0.2
  - The FreeType Project: Freetype v2.13.2 (macOS and Windows only) for JDK 21.0.3 and later
  - 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 for JDK 21 to 21.0.2
  - Apache Santuario v3.0.3 for JDK 21.0.3 and later
- 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 for JDK 21 to 21.0.2
  - Apache Xalan v2.7.2 for JDK 21.0.3 and later
  - 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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[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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[DOM Level 3 Core Specification v1.0](#)

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Little Color Management System (LCMS) v2.15

Little Color Management System

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[Mesa 3-D Graphics Library v21.0.3](#)

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