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
  - GCC - libgcc and libstdc++ 14.2.0 (Linux only) for JDK 21.0.11 and later
  - 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) for JDK 21 to 21.0.3
  - zlib v1.3.1 (Windows only) for JDK 21.0.4 to 21.0.11
  - zlib v1.3.2 (Windows only) for JDK 21.0.12 and later
  - 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 to 21.0.7
  - The FreeType Project: Freetype v2.13.3 (macOS and Windows only) for JDK 21.0.8 to 21.0.10
  - The FreeType Project: Freetype v2.14.2 (macOS and Windows only) for JDK 21.0.11 and 21.0.12.1
  - The FreeType Project: Freetype v2.14.3 (macOS and Windows only) for JDK 21.0.13 and later
  - GIFLIB v5.2.1 for JDK 21 to 21.0.4
  - GIFLIB v5.2.2 for JDK 21.0.5 to 21.0.11
  - GIFLIB v6.1.2 for JDK 21.0.12 to 21.0.12.1
  - GIFLIB v6.1.3 for JDK 21.0.13 and later
  - Harfbuzz v7.2 for JDK 21 to 21.0.1
  - Harfbuzz v8.2.2 for JDK 21.0.2 to 21.0.7
  - Harfbuzz v10.4.0 for JDK 21.0.8
  - Harfbuzz v11.2.0 for JDK 21.0.9 to 21.0.11
  - Harfbuzz v12.3.2 for JDK 21.0.12 to 21.0.12.1
  - Harfbuzz v14.2.0 for JDK 21.0.13 and later
  - Independent JPEG Group: JPEG release 6b
  - Little Color Management System (LCMS) v2.15 for JDK 21 to 21.0.3
  - Little Color Management System (LCMS) v2.16 for JDK 21.0.4 to 21.0.7
  - Little Color Management System (LCMS) v2.17 for JDK 21.0.8 to 21.0.11Little Color Management System (LCMS) v2.19.1 for JDK 21.0.12 and later

  libpng v1.6.39 for JDK 21 to 21.0.1
  - libpng v1.6.40 for JDK 21.0.2 to 21.0.4

    - libpng v1.6.43 for JDK 21.0.5 to 21.0.7
    - libpng v1.6.47 for JDK 21.0.8 to 21.0.10
    - libpng v1.6.54 for JDK 21.0.11
    - libpng v1.6.57 for JDK 21.0.12 to 21.0.12.1
    - libpng v1.6.58 for JDK 21.0.13 and later
    - Mesa 3-D Graphics Library v21.0.3
    - PipeWire 0.3.68 (Linux and macOS only) for JDK 21 to 21.0.7
    - PipeWire 1.3.81 (Linux and macOS only) for JDK 21.0.8 and later
    - xwd v1.0.7 (Linux only)

- Module java.smartcardio
    - PC/SC Lite v1.9.9 (Linux and macOS only) for JDK 21 to 21.0.6
    - PC/SC Lite v2.3.0 (Linux and macOS only) for JDK 21.0.7 and later

- 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 to 21.0.8
    - Apache Santuario v3.0.5 for JDK 21.0.9 and later

- Module java.xml
    - Apache Commons Byte Code Engineering Library (BCEL) Version 6.7.0 for JDK 21 to 21.0.10
    - Apache Commons Byte Code Engineering Library (BCEL) Version 6.10.0 for JDK 21.0.11 and later
    - 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 v2.7.3 for JDK 21.0.3 and later
    - Apache Xerces v2.12.2

- Module jdk.crypto.cryptoki
    - IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1
    - OASIS PKCS #11 Cryptographic Token Interface v3.0 for JDK 21 to 21.0.6
    - OASIS PKCS #11 Cryptographic Token Interface v3.1 for JDK 21.0.7 and later

- Module jdk.dynalink
    - Dynalink v.5

- Module jdk.internal.le
    - JLine v3.22.0 for JDK 21 to 21.0.6
    - Jline v3.26.1 for JDK 21.0.7 to 21.0.11
    - Jline v3.29.0 for JDK 21.0.11 and later

- Module jdk.internal.opt

    - jopt-simple v5.0.4

- Module jdk.javadoc
    - DejaVu fonts v2.37
    - jQuery v3.6.1 for JDK 21 to 21.0.4
    - jQuery v3.7.1 for JDK 21.0.5 and later
    - jQuery UI v1.13.2 for JDK 21 to 21.0.8
    - jQuery UI v1.14.1 for JDK 21.0.9 and later

- 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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Cryptix AES v3.2.0

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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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