Licensing Information User Manual  
Oracle Java SE 22  
Last updated: 2024-03-19

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

<table>
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<th>Package</th>
<th>Contents</th>
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<tr>
<td>Oracle Java SE Development Kit (JDK)</td>
<td>Everything required for developing, debugging, documenting, running, and monitoring Java applications including a Java Virtual Machine and many common Java Libraries.</td>
</tr>
<tr>
<td>Oracle TZUpdater</td>
<td>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></td>
</tr>
</tbody>
</table>

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Java SE 22 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) v44.0
  - International Components for Unicode (ICU4J) v74.1
  - Mozilla Public Suffix List
  - The Unicode Standard, Unicode Character Database, Version 15.1.0
  - Bert Belder: wepoll v 1.5.8 (Windows only)
  - zlib v1.3 (Windows only)
- Module java.desktop
  - Eastman Kodak Company: Portions of color management and imaging software
  - The FreeType Project: Freetype v2.13.2
  - GIFLIB v5.2.1
  - Harfbuzz v8.2.2
  - Independent JPEG Group: JPEG release 6b
  - Little Color Management System (LCMS) v2.15
  - libpng v1.6.40
  - 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 v3.0.3
- 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 v2.7.3
  - 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) v44.0
  - 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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