Abstract

The release notes for Eclipse Temurin 11.0.19 provide an overview of new features in OpenJDK 11 and a list of potential known issues and possible workarounds.
Table of Contents

PREFACE ......................................................................................................................... 3

MAKING OPEN SOURCE MORE INCLUSIVE ................................................................. 4

CHAPTER 1. SUPPORT POLICY FOR OPENJDK ............................................................. 5

CHAPTER 2. ECLIPSE TEMURIN FEATURES ............................................................... 6
   New features and enhancements.................................................................................. 6
   SSLv2Hello and SSLv3 protocols removed from default-enabled TLS protocols...... 6
   Certigna (Dhimyotis) root certificate authority (CA) certificate added................... 6
   listRoots method returns all available drives on Windows...................................... 6
   Enhanced Swing platform support............................................................................ 7
Open Java Development Kit (OpenJDK) is a free and open-source implementation of the Java Platform, Standard Edition (Java SE). Eclipse Temurin is available in three LTS versions: OpenJDK 8u, OpenJDK 11u, and OpenJDK 17u.

Binary files for Eclipse Temurin are available for macOS, Microsoft Windows, and multiple Linux x86 Operating Systems including Red Hat Enterprise Linux and Ubuntu.
MAKING OPEN SOURCE MORE INCLUSIVE

Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see our CTO Chris Wright’s message.
CHAPTER 1. SUPPORT POLICY FOR OPENJDK

Red Hat will support select major versions of OpenJDK in its products. For consistency, these versions will be the same ones that Oracle designates 'LTS' for the Oracle JDK.

A major version of OpenJDK will be supported for a minimum of six years from the time it is first introduced.

OpenJDK 11 is supported on Microsoft Windows and Red Hat Enterprise Linux until October 2024.

NOTE

RHEL 6 reached the end of life in November 2020. Due to this, OpenJDK is not supporting RHEL 6 as a supporting configuration.

See the OpenJDK Life Cycle and Support Policy .
CHAPTER 2. ECLIPSE TEMURIN FEATURES

Eclipse Temurin does not contain structural changes from the upstream distribution of OpenJDK.

For the list of changes and security fixes that the latest OpenJDK 11 release of Eclipse Temurin includes, see OpenJDK 11.0.19 Released.

New features and enhancements

Review the following release notes to understand new features and feature enhancements included with the Eclipse Temurin 11.0.19 release:

SSLv2Hello and SSLv3 protocols removed from default-enabled TLS protocols

SSLv2Hello and SSLv3 are versions of the SSL protocol that are disabled by default, because they have not been considered secure for some time. The SSLv2Hello and SSLv3 protocols are superseded by the more secure and modern TLS protocol and users can switch to TLS versions 1.2 or 1.3.

With release OpenJDK 11.0.19, the list of default-enabled protocols no longer includes SSLv2Hello and SSLv3. Therefore, even if you remove SSLv3 from the $jdk.tls.disabledAlgorithms$ security property, the following methods no longer return SSLv3:

- SSLServerSocket.getEnabledProtocols()
- SSLEngine.getEnabledProtocols()
- SSLParameters.getProtocols()

Now, if you want to enable SSLv3, you must use the $jdk.tls.client.protocols$ or $jdk.tls.server.protocols$ system property on the command line, or call one of the following methods to enable SSLv3 programmatically:

- SSLSocket.setEnabledProtocols()
- SSLServerSocket.setEnabledProtocols()
- SSLEngine.setEnabledProtocols()

See JDK-8190492 (JDK Bug System).

Certigna (Dhimyotis) root certificate authority (CA) certificate added

In release OpenJDK 11.0.19, the cacerts truststore includes the Certigna (Dhimyotis) root certificate:

- Name: Certigna (Dhimyotis)
- Alias name: certignarootca
- Distinguished name: CN=Certigna, O=Dhimyotis, C=FR

See JDK-8245654 (JDK Bug System).

listRoots method returns all available drives on Windows

In previous releases, the java.io.File.listRoots() method on Windows systems filtered out any disk drives that were not accessible or did not have media loaded. However, this filtering led to observable performance issues.

Now, with release OpenJDK 11.0.19, the listRoots method returns all available disk drives unfiltered.

See JDK-8208077 (JDK Bug System).
Enhanced Swing platform support
In earlier releases of OpenJDK, HTML object tags rendered embedded in Swing HTML components. With release OpenJDK 11.0.19, rendering only occurs if you set the new system property `swing.html.object` to true. By default, the `swing.html.object` property is set to false.

JDK bug system reference ID: JDK-8296832.

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