



Red Hat build of OpenJDK 17

Release notes for Eclipse Temurin 17.0.10

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Abstract

The release notes for Eclipse Temurin 17.0.10 provide an overview of new features in OpenJDK 17 and a list of potential known issues and possible workarounds.

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PREFACE

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 four LTS versions: OpenJDK 8u, OpenJDK 11u, OpenJDK 17u, and OpenJDK 21u.

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

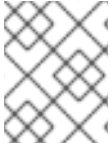
MAKING OPEN SOURCE MORE INCLUSIVE

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 ECLIPSE TEMURIN

Red Hat will support select major versions of Eclipse Temurin in its products. For consistency, these versions remain similar to Oracle JDK versions that Oracle designates as long-term support (LTS).

A major version of Eclipse Temurin will be supported for a minimum of six years from the time that version is first introduced. For more information, see the [Eclipse Temurin Life Cycle and Support Policy](#).



NOTE

RHEL 6 reached the end of life in November 2020. Because of this, Eclipse Temurin does not support RHEL 6 as a supported configuration.

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 17 release of Eclipse Temurin includes, see [OpenJDK 17.0.10 Released](#).

New features and enhancements

Review the following release notes to understand new features and feature enhancements included with the Eclipse Temurin 17.0.10 release:

KEEPALIVE extended socket options support added on Windows

On Windows 10 version 1709 or later platforms, the `java.net.ExtendedSocketOptions` class now supports the `TCP_KEEPIDLE` and `TCP_KEEPINTERVAL` options.

Similarly, on Windows 10 version 1703 or later platforms, the `java.net.ExtendedSocketOptions` class now supports the `TCP_KEEPCOUNT` option.

See [JDK-8308593 \(JDK Bug System\)](#).

X509KeyManager.chooseClientAlias method called once for all key types

In OpenJDK 17.0.10, TLS or Datagram TLS (DTLS) now makes only one call to the `X509KeyManager.chooseClientAlias` method during handshakes for client authentication, regardless of how many algorithms are requested.

See [JDK-8262186 \(JDK Bug System\)](#).

Peak values for committed memory included in NMT reports

In OpenJDK 17.0.10, Native Memory Tracking (NMT) reports now show the peak value for all categories. The peak value is the highest value for committed memory in a given NMT category over the lifetime of the JVM process.

If the committed memory for a category is currently at its highest value, the NMT report shows an **at peak** value; otherwise, the NMT report shows the historic peak value.

For example, the following report output shows that compiler arena memory peaked above 6 MB but is now approximately 200KB:

```
Compiler (arena=196KB #4) (peak=6126KB #16)
```

See [JDK-8317772 \(JDK Bug System\)](#).

JVM warnings about unsupported THPs on Linux

On Linux platforms, if Transparent Huge Pages (THPs) are requested but not supported, the JVM now prints the following message to standard output:

```
UseTransparentHugePages disabled; transparent huge pages are not supported by the operating system.
```

See [JDK-8313782 \(JDK Bug System\)](#).

Increased default value of `jdk.jar.maxSignatureFileSize` system property

OpenJDK 17.0.8 introduced a `jdk.jar.maxSignatureFileSize` system property for configuring the maximum number of bytes that are allowed for the signature-related files in a Java archive (JAR) file (JDK-8300596). By default, the `jdk.jar.maxSignatureFileSize` property was set to 8000000 bytes (8

MB), which was too small for some JAR files, such as the Mend (formerly WhiteSource) Unified Agent JAR file.

OpenJDK 17.0.10 increases the default value of the **`jdk.jar.maxSignatureFileSize`** property to 16000000 bytes (16 MB).

See [JDK-8312489 \(JDK Bug System\)](#)

Let's Encrypt ISRG Root X2 CA certificate added

In OpenJDK 17.0.10, the **`cacerts`** truststore includes the Internet Security Research Group (ISRG) Root X2 certificate authority (CA) certificate from Let's Encrypt:

- Name: Let's Encrypt
- Alias name: letsencryptisrgx2
- Distinguished name: CN=ISRG Root X2, O=Internet Security Research Group, C=US

See [JDK-8317374 \(JDK Bug System\)](#).

Digicert, Inc. root certificates added

In OpenJDK 17.0.10, the **`cacerts`** truststore includes four Digicert, Inc. root certificates:

Certificate 1

- Name: DigiCert, Inc.
- Alias name: digicertcseccrootg5
- Distinguished name: CN=DigiCert CS ECC P384 Root G5, O="DigiCert, Inc.", C=US

Certificate 2

- Name: DigiCert, Inc.
- Alias name: digicertcsrsarootg5
- Distinguished name: CN=DigiCert CS RSA4096 Root G5, O="DigiCert, Inc.", C=US

Certificate 3

- Name: DigiCert, Inc.
- Alias name: digicerttlseccrootg5
- Distinguished name: CN=DigiCert TLS ECC P384 Root G5, O="DigiCert, Inc.", C=US

Certificate 4

- Name: DigiCert, Inc.
- Alias name: digicerttlsrsarootg5
- Distinguished name: CN=DigiCert TLS RSA4096 Root G5, O="DigiCert, Inc.", C=US

See [JDK-8318759 \(JDK Bug System\)](#).

eMudhra Technologies Limited root certificates added

In OpenJDK 17.0.10, the **cacerts** truststore includes three eMudhra Technologies Limited root certificates:

Certificate 1

- Name: eMudhra Technologies Limited
- Alias name: emsignrootcag1
- Distinguished name: CN=emSign Root CA - G1, O=eMudhra Technologies Limited, OU=emSign PKI, C=IN

Certificate 2

- Name: eMudhra Technologies Limited
- Alias name: emsigneccrootcag3
- Distinguished name: CN=emSign ECC Root CA - G3, O=eMudhra Technologies Limited, OU=emSign PKI, C=IN

Certificate 3

- Name: eMudhra Technologies Limited
- Alias name: emsignrootcag2
- Distinguished name: CN=emSign Root CA - G2, O=eMudhra Technologies Limited, OU=emSign PKI, C=IN

See [JDK-8319187 \(JDK Bug System\)](#).

Telia Root CA v2 certificate added

In OpenJDK 17.0.10, the **cacerts** truststore includes the Telia Root CA v2 certificate:

- Name: Telia Root CA v2
- Alias name: teliarootcav2
- Distinguished name: CN=Telia Root CA v2, O=Telia Finland Oyj, C=FI

See [JDK-8317373 \(JDK Bug System\)](#).

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