



Red Hat build of OpenJDK 17

Release notes for Eclipse Temurin 17.0.9

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Abstract

The release notes for Eclipse Temurin 17.0.9 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 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 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 17.0.9 Released](#).

2.1. NEW FEATURES AND ENHANCEMENTS

Review the following release notes to understand new features and feature enhancements included with the Eclipse Temurin 17.0.9 release:

Increased default group size of TLS Diffie-Hellman

In OpenJDK 17.0.9, the JDK implementation of TLS 1.2 uses a default Diffie-Hellman key size of 2048 bits. This supersedes the behavior in previous releases where the default Diffie-Hellman key size was 1024 bits.

This enhancement is relevant when a **TLS_DHE** cipher suite is negotiated and either the client or the server does not support Finite Field Diffie-Hellman Ephemeral (FFDHE) parameters. The JDK TLS implementation supports FFDHE, which is enabled by default and can negotiate a stronger key size.

As a workaround, you can revert to the previous key size by setting the **jdk.tls.ephemeralDHKeySize** system property to **1024**. However, to mitigate risk, consider using the default key size of 2048 bits.



NOTE

This change does not affect TLS 1.3, which already uses a minimum Diffie-Hellman key size of 2048 bits.

See [JDK-8301700 \(JDK Bug System\)](#).

Output of **-XshowSettings:locale** option includes **tzdata** version

In OpenJDK 17.0.9, the **-XshowSettings** launcher option also prints the **tzdata** version that the JDK uses. The **tzdata** version is displayed as part of the output for the **-XshowSettings:locale** option.

For example:

```
Locale settings:
  default locale = English
  default display locale = English
  default format locale = English
  tzdata version = 2023c
```

See [JDK-8305950 \(JDK Bug System\)](#).

Certigna root CA certificate added

In OpenJDK 17.0.9, the **cacerts** truststore includes the following Certigna root certificate:

- Name: Certigna (Dhimyotis)
- Alias name: certignarootca
- Distinguished name: CN=Certigna Root CA, OU=0002 48146308100036, O=Dhimyotis, C=FR

See [JDK-8314960 \(JDK Bug System\)](#).

2.2. DEPRECATED FEATURES

Review the following release notes to understand pre-existing features that have been either deprecated or removed in Eclipse Temurin 17.0.9:

SECOM Trust Systems root CA1 certificate removed

OpenJDK 17.0.9 removes the following root certificate from the **cacerts** truststore:

- Alias name: `secomscrootca1 [jdk]`
- Distinguished name: `OU=Security Communication RootCA1, O=SECOM Trust.net, C=JP`

See [JDK-8295894 \(JDK Bug System\)](#).

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