

Liberica JDK 8u432+7

Release Notes



Liberica JDK
8u432
October 16, 2024

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1. Version information

This document provides information about Liberica JDK 8u432 release.

The full version string for this update release is 8u432+7. The version number is 8.

Liberica JDK 8 is distributed as `.apk`, `.rpm`, `.zip`, `.deb`, and `.tar.gz` packages. Please select the most appropriate for your purposes.

2. What's New

This release contains the following updates and new features.

Notable Changes

This is the list of the notable issues fixed in this release.

Issue ID	
JDK-8334296	<p>Summary: Disable TLS_ECDH_* cipher suites</p> <p>Description: These cipher suites do not preserve forward-secrecy and are rarely used in practice. Other TLS implementations (ex: Chrome, Mozilla) do not enable these suites. The successor of RFC 7525 recommends that these suites not be used.</p>
JDK-8337007	<p>Summary: Relax the java.awt.Robot specification</p> <p>Description: This fix relaxes the specification of three methods in the <code>java.awt.Robot</code> class - <code>mouseMove(int, int)</code>, <code>getPixelColor(int, int)</code>, <code>createScreenCapture(Rectangle)</code> and <code>createMultiResolutionScreenCapture(Rectangle)</code> - to allow these methods to fail when the desktop environment does not permit moving the mouse pointer or capturing screen content.</p>
JDK-8337619	<p>Summary: Exception when Tab key moves focus to a JCheckbox with a custom ButtonModel</p> <p>Description: As stated in JDK-8182577, when a custom <code>ButtonModel</code> was used and keyboard focus was moved by pressing TAB key, then in <code>LayoutFocusTraversalPolicy.accept()</code> method, it typecasts <code>buttonmodel</code> object to <code>JToggleButton.ToggleButtonModel</code>, which resulted in <code>ClassCastException</code>.</p>

Issue ID

JDK-8338735

Summary: Infinite loop in ZipOutputStream.close()

Description: ZipOutputStream.close() had the potential for falling into an infinite loop. Sometimes, when the client disconnected or the socket write timed out, the underlying output stream was closed before the zip file was completely written. This caused the ARM block call of ZipOutputStream.close() to fall into an infinite loop.

JDK-8340530

Summary: Distrust TLS server certificates issued after Oct 2024 and anchored by Entrust Root CAs

Description: Google and Mozilla have announced plans to distrust TLS Server certificates issued by Entrust. This enhancement implements similar restrictions in the JDK. The restrictions is enforced in the SunJSSE Provider of the Java Secure Socket Extension (JSSE) API. A TLS session will not be negotiated if the server's certificate chain is anchored by any of the Certificate Authorities specified in this issue and the certificate's notBefore date is after October 31, 2024. If necessary, you can work around the restrictions by removing 'ENTRUST_TLS' from the 'jdk.security.caDistrustPolicies' security property.

IANA TZ Data update

This release of Liberica JDK 8u432 comes with IANA Time Zone Database version [2024a](#). The following are the main changes in this update:

Kazakhstan unifies on UTC+5 beginning 2024-03-01. Palestine springs forward a week later after Ramadan. zic no longer pretends to support indefinite-past DST. localtime no longer mishandles Ciudad Juárez in 2422.

3. Known Issues

This release does not contain any known issues.

4. Fixed CVEs

This is the list of the security issues fixed in this release. CVSS scores are provided using the CVSS version 3.1 scoring system.

CVE ID	CVSS score	Component	Module	Attack Vector	Complexity	Privileges	User Interaction	Scope	Confidentiality	Integrity	Availability
CVE-2023-42950	7.5	javafx	web	network	high	none	required	unchanged	high	high	high
CVE-2024-21208	3.7	core-libs	java.net	network	high	none	none	unchanged	none	none	low
CVE-2024-21210	3.7	hotspot	compiler	network	high	none	none	unchanged	none	low	none
CVE-2024-21217	3.7	core-libs	java.io.serialization	network	high	none	none	unchanged	none	none	low
CVE-2024-21235	4.8	hotspot	compiler	network	high	none	none	unchanged	low	low	none
CVE-2024-25062	7.5	javafx	web	network	low	none	none	unchanged	none	none	high

5. Resolved Issues

JDK issues

This is the list of general JDK issues fixed in this release.

Issue ID	Summary
JDK-4660158	TTY: NumberFormatException while trying to set values by 'set' command
JDK-6544871	java/awt/event/KeyEvent/KeyTyped/CtrlASCII.html fails from jdk b09 on windows.
JDK-7188098	TEST_BUG: closed/javax/sound/midi/Synthesizer/Receiver/bug6186488.java fails
JDK-8021775	compiler/8009761/Test8009761.java "Failed: init recursive calls: 51. After deopt 50"
JDK-8030204	com/sun/jdi/JdbExprTest.sh: Required output "Can\\'t convert 2147483648 to int" not found
JDK-8030795	java/nio/file/Files/probeContentType/ForceLoad.java failing with ServiceConfigurationError without jtreg -agentvm option
JDK-8035395	sun/management/jmxremote/startstop/JMXStartStopTest.java fails intermittently: Port already in use
JDK-8075511	Enable -Woverloaded-virtual C++ warning for HotSpot build
JDK-8137329	[windows] Build broken on VS2010 after "8046148: JEP 158: Unified JVM Logging"

Issue ID	Summary
JDK-8145919	sun/management/jmxremote/bootstrap/RmiSslBootstrapTest failed with Connection failed for no credentials
JDK-8152207	Perform array bound checks while getting a length of bytecode instructions
JDK-8193682	Infinite loop in ZipOutputStream.close()
JDK-8196770	Add JNDI test com/sun/jndi/ldap/blits/AddTests/AddNewEntry.java
JDK-8205407	[windows, vs<2017] C4800 after 8203197
JDK-8221903	PIT: javax/swing/RepaintManager/IconifyTest/IconifyTest.java fails on ubuntu18.04
JDK-8233364	Fix undefined behavior in Canonicalizer::do_ShiftOp
JDK-8238274	(sctp) JDK-7118373 is not fixed for SctpChannel
JDK-8251188	Update LDAP tests not to use wildcard addresses
JDK-8262017	C2: assert(n != __null) failed: Bad immediate dominator info.
JDK-8264328	Broken license in javax/swing/JComboBox/8072767/bug8072767.java
JDK-8266248	Compilation failure in PLATFORM_API_MacOSX_MidiUtils.c with Xcode 12.5
JDK-8278794	Infinite loop in DeflaterOutputStream.finish()
JDK-8279164	Disable TLS_ECDH_* cipher suites
JDK-8281096	Flags introduced by configure script are not passed to ADLC build
JDK-8284771	java/util/zip/CloseInflaterDeflaterTest.java failed with "AssertionError: Expected IOException to be thrown, but nothing was thrown"

Issue ID	Summary
JDK-8290367	Update default value and extend the scope of <code>com.sun.jndi.ldap.object.trustSerialData</code> system property
JDK-8298887	On the latest macOS+XCode the Robot API may report wrong colors
JDK-8299677	<code>Formatter.format</code> might take a long time to format an integer or floating-point
JDK-8303466	C2: failed: malformed control flow. Limit type made precise with MaxL/MinL
JDK-8305400	ISO 4217 Amendment 175 Update
JDK-8305931	<code>jdk/jfr/jcmd/TestJcmdDumpPathToGCRoots.java</code> failed with "Expected chains but found none"
JDK-8307779	Relax the <code>java.awt.Robot</code> specification
JDK-8309138	Fix container tests for jdks with symlinked conf dir
JDK-8311666	Disabled tests in <code>test/jdk/sun/java2d/marlin</code>
JDK-8313626	C2 crash due to unexpected exception control flow
JDK-8315117	Update Zlib Data Compression Library to Version 1.3
JDK-8315863	[GHA] Update checkout action to use v4
JDK-8316328	Test <code>jdk/jfr/event/oldobject/TestSanityDefault.java</code> times out for some heap sizes
JDK-8318039	GHA: Bump macOS and Xcode versions
JDK-8318951	Additional negative value check in JPEG decoding
JDK-8320964	<code>sun/tools/native2ascii/Native2AsciiTests.sh</code> fails on Japanese

Issue ID	Summary
JDK-8321480	ISO 4217 Amendment 176 Update
JDK-8324632	Update Zlib Data Compression Library to Version 1.3.1
JDK-8324723	GHA: Upgrade some actions to avoid deprecated Node 16
JDK-8326351	Update the Zlib version in open/src/java.base/share/legal/zlib.md to 1.3.1
JDK-8326521	JFR: CompilerPhase event test fails on windows 32 bit
JDK-8326529	JFR: Test for CompilerCompile events fails due to time out
JDK-8327007	javax/swing/JSpinner/8008657/bug8008657.java fails
JDK-8328286	Enhance HTTP client
JDK-8328544	Improve handling of vectorization
JDK-8328726	Better Kerberos support
JDK-8330415	Update system property for Java SE specification maintenance version
JDK-8331446	Improve deserialization support
JDK-8331730	[8u] GHA: update sysroot for cross builds to Debian bullseye
JDK-8332644	Improve graph optimizations
JDK-8333126	Bump update version of OpenJDK: 8u432
JDK-8333669	[8u] GHA: Dead VS2010 download link

Issue ID	Summary
JDK-8333724	Problem list security/infra/java/security/cert/CertPathValidator/certification/CAInterop.java #teliasonerarootcav1
JDK-8334653	ISO 4217 Amendment 177 Update
JDK-8334905	[8u] The test java/awt/Mixing/AWT_Mixing/JButtonOverlapping.java started to fail after 8159690
JDK-8335552	[8u] JDK-8303466 backport to 8u requires 3 ::Identity signature fixes
JDK-8335713	Enhance vectorization analysis
JDK-8335851	[8u] Test JMXStartStopTest.java fails after JDK-8334415
JDK-8335894	[8u] Fix SupplementalJapaneseEraTest.java for jdks with symlinked conf dir
JDK-8336928	GHA: Bundle artifacts removal broken
JDK-8337110	[8u] TestNoEagerReclaimOfHumongousRegions.java should be in gc/g1 directory
JDK-8337312	[8u] Windows x86 VS2010 build broken by JDK-8320097
JDK-8337664	Distrust TLS server certificates issued after Oct 2024 and anchored by Entrust Root CAs
JDK-8338144	[8u] Remove duplicate license files
JDK-8341057	Add 2 SSL.com TLS roots
JDK-8341059	Change Entrust TLS distrust date to November 12, 2024

JFX issues

This is the list of JFX issues fixed in this release.

Issue ID	Summary
JDK-8296283	JUnit5 tests using Params API fails to compile
JDK-8322251	[Linux] JavaFX is not displaying CJK on Ubuntu 23.10 and later
JDK-8328994	Update WebKit to 619.1
JDK-8329011	Update SQLite to 3.45.3
JDK-8330462	StringIndexOutOfBoundsException when typing anything into TextField
JDK-8331748	Update libxml2 to 2.12.6
JDK-8332539	Update libxml2 to 2.12.7
JDK-8334124	Rendering issues with CSS "text-shadow" in WebView
JDK-8335548	testCookieEnabled fails with WebKit 619.1
JDK-8336798	DRT test cssrounding.html test for linear layout fails with WebKit 619.1
JDK-8336939	Update Glib to 2.80.4
JDK-8336940	Update GStreamer to 1.24.6
JDK-8337481	File API: file.name contains path instead of name
JDK-8338306	WebView Drag and Drop fails with WebKit 619.1
JDK-8338307	Additional WebKit 619.1 fixes from WebKitGTK 2.44.3

Issue ID	Summary
JDK-8338886	JavaFX debug builds fail on macOS

6. Updates to Third Party Libraries

This is the list of changes in the third party libraries.

Library	Full name	New Version	Module	JBS
zlib	Zlib Data Compression Library	1.3.1	java.base	JDK-8324632

7. Upgrading to the New Version

To keep your Liberica JDK up-to-date and secure, always upgrade to the newest available version once it is released. To upgrade, install the new version over the previous one. For the installation instructions, see [Liberica JDK Installation Guide](#).



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