

Liberica JDK 8u422+6

Release Notes



Liberica JDK
8u422
July 16, 2024

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1. Version information

This document provides information about Liberica JDK 8u422 release.

The full version string for this update release is 8u422+6. 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-8326086	<p>Summary: Add an approximation of total bytes allocated on the Java heap by the JVM</p> <p>Description: A new <code>com.sun.management.ThreadMXBean</code> method <code>getAllThreadAllocatedBytes()</code> was introduced that, if both <code>isAllocatedThreadMemorySupported()</code> and <code>isThreadAllocatedMemoryEnabled()</code> are true, returns an approximation of the total number of bytes allocated in the Java heap by the JVM process.</p>
JDK-8326434	<p>Summary: Make <code>URLConnection</code> default keep alive timeout configurable</p> <p>Description: The default keep alive time for idle TCP connections in the <code>URLConnection</code> cache can now be configured by the <code>http.keepAlive.time.server</code> property.</p>
JDK-8329142	<p>Summary: Test <code>'api/java_awt/interactive/SystemTrayTests.html'</code> failed because A blue ball icon was added outside of the system tray</p> <p>Description: When pressing the 'Add tray icon' button, the blue ball icon is now added to the system tray.</p>
JDK-8329143	<p>Summary: Add Certainly roots R1 and E1</p> <p>Description: Certainly Root R1 CA certificate was added.</p>

Issue ID

JDK-8329544	<p>Summary: sun/security/krb5/auto/ReplayCacheTestProc.java cannot find the testlibrary</p> <p>Description: sun/security/krb5/auto/ReplayCacheTestProc.java failed due to a compilation error. This was because the classpath was set incorrectly by the @library annotation.</p>
JDK-8332733	<p>Summary: Add GlobalSign 2 TLS root certificates</p> <p>Description: GlobalSign Root R46 and GlobalSign Root E46 root certificates were added.</p>

IANA TZ Data update

This release of Liberica JDK 8u422 comes with IANA Time Zone Database version [2024b](#). The following are the main changes in this update:

Improve historical data for Mexico, Mongolia, and Portugal.

System V names are now obsolescent.

The main data form now uses %z.

The code now conforms to RFC 8536 for early timestamps.

Support POSIX.1-2024, which removes asctime_r and ctime_r.

Assume POSIX.2-1992 or later for shell scripts.

SUPPORT_C89 now defaults to 1.

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-2024-21131	3.7	hotspot	runtime	network	high	none	none	unchanged	none	low	none
CVE-2024-21138	3.7	hotspot	runtime	network	high	none	none	unchanged	none	none	low
CVE-2024-21140	4.8	hotspot	compiler	network	high	none	none	unchanged	low	low	none
CVE-2024-21144	3.7	core-libs	java.util	network	high	none	none	unchanged	none	none	low
CVE-2024-21145	4.8	client-libs	2d	network	high	none	none	unchanged	low	low	none
CVE-2024-21147	7.4	hotspot	compiler	network	high	none	none	unchanged	high	high	none

5. Resolved Issues

JDK issues

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

Issue ID	Summary
JDK-8025439	[TEST BUG] [macosx] PrintServiceLookup.lookupPrintServices doesn't work properly since jdk8b105
JDK-8069389	CompilerOracle prefix wildcarding is broken for long strings
JDK-8159454	[TEST_BUG] javax/swing/ToolTipManager/7123767/bug7123767.java: number of checked graphics configurations should be limited
JDK-8159690	[TESTBUG] Mark headful tests with @key headful.
JDK-8198321	javax/swing/JEditorPane/5076514/bug5076514.java fails
JDK-8203691	[TESTBUG] Test /runtime/containers/cgroup/PlainRead.java fails
JDK-8235834	IBM-943 charset encoder needs updating
JDK-8239965	XMLEncoder/Test4625418.java fails due to "Error: Cp943 - can't read properly"
JDK-8240756	[macos] SwingSet2:TableDemo:Printed Japanese characters were garbled
JDK-8256152	tests fail because of ambiguous method resolution

Issue ID	Summary
JDK-8258855	Two tests sun/security/krb5/auto/ReplayCacheTestProc.java and ReplayCacheTestProcWithMD5.java failed on OL8.3
JDK-8262017	C2: assert(n != __null) failed: Bad immediate dominator info. 8205407: [windows, vs<2017] C4800 after 8203197
JDK-8268916	Tests for AffirmTrust roots
JDK-8278067	Make HttpURLConnection default keep alive timeout configurable
JDK-8291226	Create Test Cases to cover scenarios for JDK-8278067
JDK-8291637	HttpClient default keep alive timeout not followed if server sends invalid value
JDK-8291638	Keep-Alive timeout of 0 should close connection immediately
JDK-8293562	KeepAliveCache Blocks Threads while Closing Connections
JDK-8303466	C2: failed: malformed control flow. Limit type made precise with MaxL/MinL
JDK-8304074	[JMX] Add an approximation of total bytes allocated on the Java heap by the JVM
JDK-8313081	MonitoringSupport_lock should be unconditionally initialized after 8304074
JDK-8314794	Improve UTF8 String supports
JDK-8315020	The macro definition for LoongArch64 zero build is not accurate.
JDK-8316138	Add GlobalSign 2 TLS root certificates
JDK-8317507	C2 compilation fails with "Exceeded _node_regs array"

Issue ID	Summary
JDK-8318410	jdk/java/lang/instrument/BootClassPath/BootClassPathTest.sh fails on Japanese Windows
JDK-8319859	Better symbol storage
JDK-8320005	Allow loading of shared objects with .a extension on AIX
JDK-8320097	Improve Image transformations
JDK-8320548	Improved loop handling
JDK-8322106	Enhance Pack 200 loading
JDK-8323231	Improve array management
JDK-8323390	Enhance mask blit functionality
JDK-8324185	[8u] Accept Xcode 12+ builds on macOS
JDK-8324559	Improve 2D image handling
JDK-8325096	Test java/security/cert/CertPathBuilder/akiExt/AKISerialNumber.java is failing
JDK-8325600	Better symbol storage
JDK-8325927	[8u] Backport of JDK-8170552 missed part of the test
JDK-8326686	Bump update version of OpenJDK: 8u422
JDK-8327440	Fix "bad source file" error during beaninfo generation
JDK-8328809	[8u] Problem list some CA tests

Issue ID	Summary
JDK-8328825	Google CAInterop test failures
JDK-8329544	[8u] sun/security/krb5/auto/ReplayCacheTestProc.java cannot find the testlibrary
JDK-8331791	[8u] AIX build break from JDK-8320005 backport
JDK-8331980	[8u] Problem list CAInterop.java#certignarootca test
JDK-8335552	[8u] JDK-8303466 backport to 8u requires 3 ::Identity signature fixes

JFX issues

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

Issue ID	Summary
JDK-8324233	Update JPEG Image Decoding Software to 9f
JDK-8324326	Update ICU4C to 74.2
JDK-8327177	macOS: wrong GlobalRef deleted in GlassMenu
JDK-8328749	Remove unused imports in javafx.web
JDK-8328752	Fix missing @Overrides in javafx.web
JDK-8329705	Add missing Application thread checks to platform specific a11y methods
JDK-8331765	Websocket callbacks are not executed after WebKit 617.1 update

6. Updates to Third Party Libraries

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

Library	Full name	New Version	Module	JBS
ICU4C	ICU4C	74.2	javafx	JDK-8324326
JPEG	JPEG Image Decoding Software	9f	javafx	JDK-8324233

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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