

Liberica JDK 11.0.25+11

Release Notes



Liberica JDK
11.0.25
October 16, 2024

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1. Version information

This document provides information about Liberica JDK 11.0.25 release.

The full version string for this update release is 11.0.25+11. The version number is 11.

Liberica JDK 11 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-8333608	<p>Summary: Reduce verbose locale output in <code>-XshowSettings</code> launcher option</p> <p>Description: The <code>'-XshowSettings'</code> launcher command printed all available locales, thus making the output very verbose by default and making it harder to see settings. This level of detail is now printed only if the <code>-XshowSettings:locale</code> subcommand is specified (to print all other locale details, specify <code>-XshowSettings</code>).</p>
JDK-8334194	<p>Summary: Disable <code>TLS_ECDH_*</code> 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-8336746	<p>Summary: Relax the <code>java.awt.Robot</code> 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>

Issue ID

JDK-8339595

Summary: {ClassLoader,Memory}MXBean::isVerbose methods are inconsistent with their setVerbose methods

Description: The ClassLoaderMXBean and MemoryMXBean APIs have setVerbose methods to control verbose mode and isVerbose methods to query it. Some JCK tests expect setVerbose(false) to disable verbose mode and, subsequently, isVerbose() to return false. However, if logging to a file was enabled by using -Xlog on the java launcher command line then isVerbose() returned true even after calling setVerbose(false).

JDK-8339706

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.

JDK-8341338

Summary: Add 2 SSL.com TLS roots

Description: New SSL.com TLS roots were added as they will be the issuing CA used by Entrust.

JDK-8341340

Summary: Change Entrust TLS distrust date to November 12, 2024

Description: Google has changed their distrust date for Entrust from November 1 to November 12, 2024. Entrust has also changed the date they plan to use SSL.com as the issuing CA for public TLS server certificates to November 12. To align with those updated dates, the distrust date was changed to November 12, 2024.

Graal support in Liberica JDK 11

Liberica JDK continues to provide support for AOT and Graal JIT. Since in OpenJDK 11 builds these features are deemed experimental and deprecated, it is recommended to compile native executables with [Liberica Native Image Kit](#) to avoid errors.

IANA TZ Data update

This release of Liberica JDK 11.0.25 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-7124313	[macosx] Swing Popups should overlap taskbar
JDK-7156347	javax/swing/JList/6462008/bug6462008.java fails
JDK-8078725	method adjustments can be done just once for all classes involved into redefinition
JDK-8205076	[17u] Inet6AddressImpl.c: lookupIfLocalHost accesses int InetAddress.preferIPv6Address as a boolean
JDK-8206440	Remove javac -source/-target 6 from jdk regression tests
JDK-8210338	Better output for GenerationTests.java
JDK-8211920	Close server socket and cleanups in test/jdk/javax/naming/module/RunBasic.java
JDK-8222005	ClassRedefinition crashes with: guarantee(false) failed: OLD and/or OBSOLETE method(s) found
JDK-8222884	ConcurrentClassDescLookup.java times out intermittently
JDK-8224081	SOCKS v4 tests require IPv4

Issue ID	Summary
JDK-8227122	[TESTBUG] Create Docker sidecar test cases
JDK-8229822	ThrowingPushPromises tests sometimes fail due to EOF
JDK-8231427	Warning cleanup in tests of java.io.Serializable
JDK-8236917	TestInstanceClassSize.java fails with "The size computed by SA for java.lang.Object does not match"
JDK-8238169	BasicDirectoryModel getDirectories and DoChangeContents.run can deadlock
JDK-8240226	DeflateIn_InflateOut.java test incorrectly assumes size of compressed file
JDK-8242999	HTTP/2 client may not handle CONTINUATION frames correctly
JDK-8244966	Add .vscode to .hgignore and .gitignore
JDK-8249097	test/lib/jdk/test/lib/util/JarBuilder.java has a bad copyright
JDK-8249772	(ch) Improve sun/nio/ch/TestMaxCachedBufferSize.java
JDK-8249826	5 javax/net/ssl/SSLEngine tests use @ignore w/o bug-id
JDK-8251188	Update LDAP tests not to use wildcard addresses
JDK-8253207	enable problemlists jcheck's check
JDK-8255898	Test java/awt/FileDialog/FilenameFilterTest/FilenameFilterTest.java fails on Mac OS
JDK-8255913	Decrease number of iterations in TestMaxCachedBufferSize
JDK-8255969	Improve java/io/BufferedInputStream/LargeCopyWithMark.java using jtreg tags

Issue ID	Summary
JDK-8259274	Increase timeout duration in sun/nio/ch/TestMaxCachedBufferSize.java
JDK-8260633	[macos] java/awt/dnd/MouseEventAfterStartDragTest/MouseEventAfterStartDragTest.html test failed
JDK-8261433	Better pkcs11 performance for libpkcs11:C_EncryptInit/libpkcs11:C_DecryptInit
JDK-8263031	HttpClient throws Exception if it receives a Push Promise that is too large
JDK-8266149	mark hotspot compiler/startup tests which ignore VM flags
JDK-8266150	mark hotspot compiler/arguments tests which ignore VM flags
JDK-8266153	mark hotspot compiler/onSpinWait tests which ignore VM flags
JDK-8266154	mark hotspot compiler/oracle tests which ignore VM flags
JDK-8268906	gc/g1/mixedgc/TestOldGenCollectionUsage.java assumes that GCs take 1ms minimum
JDK-8269428	java/util/concurrent/ConcurrentHashMap/ToArray.java timed out
JDK-8269616	serviceability/dcmd/framework/VMVersionTest.java fails with Address already in use error
JDK-8273135	java/awt/color/ICC_ColorSpace/MTTransformReplacedProfile.java crashes in liblcms.dylib with NULLSeek+0x7
JDK-8275851	Deproblemlist open/test/jdk/javax/swing/JComponent/6683775/bug6683775.java
JDK-8276036	The value of full_count in the message of insufficient codecache is wrong

Issue ID	Summary
JDK-8276306	jdk/jshell/CustomInputToolBuilder.java fails intermittently on storage acquisition
JDK-8276819	javax/print/PrintServiceLookup/FlushCustomClassLoader.java fails to free
JDK-8279164	Disable TLS_ECDH_* cipher suites
JDK-8279337	The MToolkit is still referenced in a few places
JDK-8280392	java/awt/Focus/NonFocusableWindowTest/NonfocusableOwnerTest.java failed with "RuntimeException: Test failed."
JDK-8284585	PushPromiseContinuation test fails intermittently in timeout
JDK-8286601	Mac Aarch: Excessive warnings to be ignored for build jdk
JDK-8286781	Replace the deprecated/obsolete gethostbyname and inet_addr calls
JDK-8290367	Update default value and extend the scope of com.sun.jndi.ldap.object.trustSerialData system property
JDK-8292044	HttpClient doesn't handle 102 or 103 properly
JDK-8294148	Support JSplitPane for instructions and test UI
JDK-8294310	compare.sh fails on macos after JDK-8293550
JDK-8296410	HttpClient throws java.io.IOException: no statuscode in response for HTTP2
JDK-8298873	Update IllegalRecordVersion.java for changes to TLS implementation
JDK-8299058	AssertionError in sun.net.httpserver.ServerImpl when connection is idle
JDK-8299487	Test java/net/httpclient/whitebox/SSLTubeTestDriver.java timed out

Issue ID	Summary
JDK-8301189	validate-source fails after JDK-8298873
JDK-8303216	Prefer ArrayList to LinkedList in sun.net.httpserver.ServerImpl
JDK-8303466	C2: failed: malformed control flow. Limit type made precise with MaxL/MinL
JDK-8303965	java.net.http.HttpClient should reset the stream if response headers contain malformed header fields
JDK-8305072	Win32ShellFolder2.compareTo is inconsistent
JDK-8305079	Remove finalize() from compiler/c2/Test719030
JDK-8305081	Remove finalize() from test/hotspot/jtreg/compiler/runtime/Test8168712
JDK-8305825	getBounds API returns wrong value resulting in multiple Regression Test Failures on Ubuntu 23.04
JDK-8305906	HttpClient may use incorrect key when finding pooled HTTP/2 connection for IPv6 address
JDK-8306060	Open source few AWT Insets related tests
JDK-8306432	Open source several AWT Text Component related tests
JDK-8306466	Open source more AWT Drag & Drop related tests
JDK-8306489	Open source AWT List related tests
JDK-8306566	Open source several clipboard AWT tests
JDK-8306850	Open source AWT Modal related tests
JDK-8307091	A few client tests intermittently throw ConcurrentModificationException

Issue ID	Summary
JDK-8307383	Enhance DTLS connections
JDK-8307779	Relax the java.awt.Robot specification
JDK-8308184	Launching java with large number of jars in classpath with java.protocol.handler.pkgs system property set can lead to StackOverflowError
JDK-8309934	Update GitHub Actions to use JDK 17 for building jtreg
JDK-8310201	Reduce verbose locale output in -XshowSettings launcher option
JDK-8311666	Disabled tests in test/jdk/sun/java2d/marlin
JDK-8312140	jdk/jshell tests failed with JDI socket timeouts
JDK-8314614	jdk/jshell/ImportTest.java failed with "InternalError: Failed remote listen"
JDK-8315422	getSoTimeout() would be in try block in SSLSocketImpl
JDK-8315437	Enable parallelism in vmTestbase/nsk/monitoring/stress/classload tests
JDK-8315442	Enable parallelism in vmTestbase/nsk/monitoring/stress/thread tests
JDK-8315804	Open source several Swing JTabbedPane JTextArea JTextField tests
JDK-8315898	Open source swing JMenu tests
JDK-8315965	Open source various AWT applet tests
JDK-8316104	Open source several Swing SplitPane and RadioButton related tests
JDK-8316211	Open source several manual applet tests

Issue ID	Summary
JDK-8316240	Open source several add/remove MenuBar manual tests
JDK-8316285	Opensource JButton manual tests
JDK-8316306	Open source and convert manual Swing test
JDK-8316328	Test jdk/jfr/event/oldobject/TestSanityDefault.java times out for some heap sizes
JDK-8316462	sun/jvmsstat/monitor/MonitoredVm/MonitorVmStartTerminate.java ignores VM flags
JDK-8316973	GC: Make TestDisableDefaultGC use createTestJvm
JDK-8317039	Enable specifying the JDK used to run jtreg
JDK-8317228	GC: Make TestXXXHeapSizeFlags use createTestJvm
JDK-8317288	[macos] java/awt/Window/Grab/GrabTest.java: Press on the outside area didn't cause ungrab
JDK-8317316	G1: Make TestG1PercentageOptions use createTestJvm
JDK-8317343	GC: Make TestHeapFreeRatio use createTestJvm
JDK-8317358	G1: Make TestMaxNewSize use createTestJvm
JDK-8317807	JAVA_FLAGS removed from jtreg running in JDK-8317039
JDK-8318039	GHA: Bump macOS and Xcode versions
JDK-8320079	The ArabicBox.java test has no control buttons

Issue ID	Summary
JDK-8320570	NegativeArraySizeException decoding >1G UTF8 bytes with non-ascii characters
JDK-8320602	Lock contention in SchemaDVFactory.getInstance()
JDK-8320945	problemlist tests failing on latest Windows 11 update
JDK-8322330	JavadocHelperTest.java OOMs with Parallel GC and ZGC
JDK-8323670	A few client tests intermittently throw ConcurrentModificationException
JDK-8324755	Enable parallelism in vmTestbase/gc/gctests/LargeObjects tests
JDK-8325022	Incorrect error message on client authentication
JDK-8325179	Race in BasicDirectoryModel.validateFileCache
JDK-8325862	set -XX:+ErrorFileToStderr when executing java in containers for some container related jtreg tests
JDK-8325876	crashes in docker container tests on Linuxppc64le Power8 machines
JDK-8326140	src/jdk.accessibility/windows/native/libjavaaccessbridge/AccessBridgeJavaEntryPoints.cpp ReleaseStringChars might be missing in early returns
JDK-8327007	javax/swing/JSpinner/8008657/bug8008657.java fails
JDK-8327137	Add test for ConcurrentModificationException in BasicDirectoryModel
JDK-8327631	Update IANA Language Subtag Registry to Version 2024-03-07
JDK-8327787	Convert javax/swing/border/Test4129681.java applet test to main
JDK-8327840	Automate javax/swing/border/Test4129681.java

Issue ID	Summary
JDK-8328011	Convert <code>java/awt/Frame/GetBoundsResizeTest/GetBoundsResizeTest.java</code> applet test to main
JDK-8328110	Allow simultaneous use of <code>PassFailJFrame</code> with split UI and additional windows
JDK-8328115	Convert <code>java/awt/font/TextLayout/TestJustification.html</code> applet test to main
JDK-8328158	Convert <code>java/awt/Choice/NonFocusablePopupMenuTest</code> to automatic main test
JDK-8328218	Delete test <code>java/awt/Window/FindOwner/FindOwner.html</code>
JDK-8328234	Remove unused <code>nativeUtils</code> files
JDK-8328238	Convert few closed manual applet tests to main
JDK-8328269	<code>NonFocusablePopupMenuTest.java</code> should be marked as headful
JDK-8328273	<code>sun/management/jmxremote/bootstrap/RmiRegistrySslTest.java</code> failed with <code>java.rmi.server.ExportException: Port already in use</code>
JDK-8328286	Enhance HTTP client
JDK-8328544	Improve handling of vectorization
JDK-8328560	<code>java/awt/event/MouseEvent/ClickDuringKeypress/ClickDuringKeypress.java</code> imports <code>Applet</code>
JDK-8328561	test <code>java/awt/Robot/ManuallInstructions/ManuallInstructions.java</code> isn't used
JDK-8328726	Better Kerberos support
JDK-8328953	<code>JEditorPane.read</code> throws <code>ChangedCharSetException</code>

Issue ID	Summary
JDK-8328999	Update GIFlib to 5.2.2
JDK-8329004	Update Libpng to 1.6.43
JDK-8329013	StackOverflowError when starting Apache Tomcat with signed jar
JDK-8329103	assert(!thread→in_asgct()) failed during multi-mode profiling
JDK-8329510	Update ProblemList for JFileChooser/8194044/FileSystemRootTest.java
JDK-8329559	Test javax/swing/JFrame/bug4419914.java failed because The End and Start buttons are not placed correctly and Tab focus does not move as expected
JDK-8329995	Restricted access to /proc can cause JFR initialization to crash
JDK-8330063	Upgrade jQuery to 3.7.1
JDK-8330416	Update system property for Java SE specification maintenance version
JDK-8330523	Reduce runtime and improve efficiency of KeepAliveTest
JDK-8331063	Some HttpClient tests don't report leaks
JDK-8331263	Bump update version for OpenJDK: jdk-11.0.25
JDK-8331446	Improve deserialization support
JDK-8331466	Problemlist serviceability/dcmd/gc/RunFinalizationTest.java on generic-all
JDK-8331746	Create a test to verify that the cmm id is not ignored
JDK-8331798	Remove unused arg of checkErgonomics() in TestMaxHeapSizeTools.java

Issue ID	Summary
JDK-8332008	Enable issuestitle check
JDK-8332113	Update nsk.share.Log to be always verbose
JDK-8332424	Update IANA Language Subtag Registry to Version 2024-05-16
JDK-8332524	Instead of printing "TLSv1.3," it is showing "TLS13"
JDK-8332644	Improve graph optimizations
JDK-8332898	failure_handler: log directory of commands
JDK-8332936	Test vmTestbase/metaspace/gc/watermark_70_80/TestDescription.java fails with no GC's recorded
JDK-8333724	Problem list security/infra/java/security/cert/CertPathValidator/certification/CAInterop.java #teliasonerarootcav1
JDK-8333804	java/net/httpclient/ForbiddenHeadTest.java threw an exception with 0 failures
JDK-8333837	[11u] HexPrinterTest.java javac compile fails illegal start of expression
JDK-8333839	[11u] LingeredAppTest.java fails Can't find source file: LingeredApp.java
JDK-8334166	Enable binary check
JDK-8334335	[TESTBUG] Backport of 8279164 to 11u & 17u includes elements of JDK-8163327
JDK-8334418	Update IANA Language Subtag Registry to Version 2024-06-14
JDK-8334653	ISO 4217 Amendment 177 Update

Issue ID	Summary
JDK-8334711	[TEST_BUG] Compilation failed of MimeFormatsTest/MimeFormatsTest.java
JDK-8335713	Enhance vectorization analysis
JDK-8335803	SunJCE cipher throws NPE for un-extractable RSA keys
JDK-8336301	test/jdk/java/nio/channels/AsyncCloseAndInterrupt.java leaves around a FIFO file upon test completion
JDK-8336928	GHA: Bundle artifacts removal broken
JDK-8337664	Distrust TLS server certificates issued after Oct 2024 and anchored by Entrust Root CAs
JDK-8338139	{ClassLoader,Memory}MXBean::isVerbose methods are inconsistent with their setVerbose methods
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-8138842	TableViewSelectionMode.selectIndices does not select index 0
JDK-8205067	Resizing window with TextField hides text value

Issue ID	Summary
JDK-8236689	macOS 10.15 Catalina: LCD text renders badly
JDK-8251240	Menus inaccessible on Linux with i3 wm
JDK-8282359	Intermittent WebKit build failure on Windows: C1090: PDB API call failed, error code 23
JDK-8285700	[TreeTableView] graphic property of TreeItem is still visible after collapsing tree
JDK-8328994	Update WebKit to 619.1
JDK-8331765	Websocket callbacks are not executed after WebKit 617.1 update
JDK-8334124	Rendering issues with CSS "text-shadow" in WebView
JDK-8334874	Horizontal scroll events from touch pads should scroll the TabPane tabs
JDK-8335548	testCookieEnabled fails with WebKit 619.1
JDK-8336798	DRT test cssrounding.html test for linear layout fails with WebKit 619.1
JDK-8336938	Update libFFI to 3.4.6
JDK-8336939	Update Glib to 2.80.4
JDK-8336940	Update GStreamer to 1.24.6
JDK-8336941	Update libxslt to 1.1.42
JDK-8337481	File API: file.name contains path instead of name
JDK-8338306	WebView Drag and Drop fails with WebKit 619.1

Issue ID	Summary
JDK-8338307	Additional WebKit 619.1 fixes from WebKitGTK 2.44.3
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
GIFlib	GIFlib	5.2.2	java.desktop	JDK-8328999
jQuery	jQuery	3.7.1	jdk.javadoc	JDK-8330063
Libpng	Libpng	1.6.43	java.desktop	JDK-8329004

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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