

Liberica JDK 8u502+9

Release Notes



Liberica JDK
8u502
July 21, 2026

be//soft

Copyright © BellSoft Corporation 2018-2026.

BellSoft software contains open source software. Additional information about third party code is available at https://bell-sw.com/third_party_licenses. You can also get more information on how to get a copy of source code by contacting info@bell-sw.com.

THIS INFORMATION MAY CHANGE WITHOUT NOTICE. TO THE EXTENT PERMITTED BY APPLICABLE LAW, BELLSOFT PROVIDES THIS DOCUMENTATION “AS IS” WITHOUT WARRANTY OF ANY KIND, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. IN NO EVENT WILL BELLSOFT BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY LOSS OR DAMAGE, DIRECT OR INDIRECT, FROM THE USE OF THIS DOCUMENTATION, INCLUDING WITHOUT LIMITATION, LOST PROFITS, LOST INVESTMENT, BUSINESS INTERRUPTION, GOODWILL, OR LOST DATA, EVEN IF BELLSOFT IS EXPRESSLY ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH LOSS OR DAMAGE.

The use of any software product referenced in this document is governed by the applicable license agreement, which is not modified in any way by the terms of this notice.

Alpaquita, Liberica and BellSoft are trademarks or registered trademarks of BellSoft Corporation. The registered trademark Linux® is used pursuant to a sublicense from the Linux Foundation, the exclusive licensee of Linus Torvalds, owner of the mark on a worldwide basis. Java and OpenJDK are trademarks or registered trademarks of Oracle and/or its affiliates. Other trademarks are the property of their respective owners and are used only for identification purposes.

Contents

1. Version information	5
------------------------	---

2. What's New	6
---------------	---

Notable Changes	6
-----------------	---

IANA TZ Data version	6
----------------------	---

Briefly	6
---------	---

Changes to future timestamps	6
------------------------------	---

Changes to code	7
-----------------	---

3. Known Issues	8
-----------------	---

4. Fixed CVEs	9
---------------	---

5. Resolved Issues	10
--------------------	----

JDK issues	10
------------	----

JFX issues	13
------------	----

6. Updates to Third Party Libraries	15
-------------------------------------	----

7. Upgrading to the New Version	16
---------------------------------	----

1. Version information

This document provides information about Liberica JDK 8u502 release. The full version string for this update release is 8u502+9. The version number is 8.

Liberica JDK 8 is distributed as `.apk`, `.rpm`, `.zip`, `.deb`, `.pkg`, 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-8372351	Summary: Added WISEKey Global GB and GC Root CA Certificates Description: wisekeyglobalrootgbca and wisekeyglobalrootgcc root certificates have been added to the cacerts truststore.

IANA TZ Data version

This release of Liberica JDK 8u502 comes with the 2026b version of the in-tree copy of the [IANA timezone database](#). The following are the key features of this version.

Briefly

British Columbia moved to permanent -07 on 2026-03-09.

Some more overflow bugs have been fixed in zic.

Changes to future timestamps

British Columbia's 2026-03-08 spring forward was its last foreseeable clock change, as it moved to permanent -07 thereafter. (Thanks to Arthur David Olson.) Although the change to permanent -07

legally took place on 2026-03-09, temporarily model the change to occur on 2026-11-01 at 02:00 instead. This works around a limitation in CLDR v48.2 (2026-03-17). This temporary hack is planned to be removed after CLDR is fixed.

Changes to code

- zic no longer mishandles a last transition to a new time type.
- zic no longer overflows a buffer when generating a TZ string like "PST-167:59:58PDT-167:59:59,M11.5.6/-167:59:59,M12.5.6/-167:59:59", which can occur with adversarial input. (Thanks to Naveed Khan.)
- zic no longer generates a longer TZif file than necessary when an earlier time zone abbreviation is a suffix of a later one. As a nice side effect, zic no longer overflows a buffer when given a long series of abbreviations, each a suffix of the next. (Buffer overflow reported by Arthur Chan.)
- zic no longer overflows an int when processing input like 'Zone Ouch 2147483648:00:00 - LMT'. The int overflow can lead to buffer overflow in adversarial cases. (Thanks to Naveed Khan.)
- zic now checks for signals more often.

For more information, see [JDK-8383175](#).

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-2026-41254	7.5	client-libs	2d	network	low	none	none	unchanged	none	none	high
CVE-2026-46968	5.9	security-libs	javax.net.ssl	network	high	none	none	unchanged	none	high	none
CVE-2026-47010	3.7	client-libs	javax.imageio	network	high	none	none	unchanged	none	low	none
CVE-2026-47013	5.3	javafx	graphics	network	low	none	none	unchanged	none	none	low
CVE-2026-47021	5.3	client-libs	2d	network	low	none	none	unchanged	none	none	low
CVE-2026-47027	5.3	security-libs	java.security	network	low	none	none	unchanged	none	none	low
CVE-2026-47030	3.1	javafx	web	network	high	none	required	unchanged	none	low	none
CVE-2026-47034	3.1	javafx	media	network	high	none	required	unchanged	none	low	none
CVE-2026-47035	3.1	javafx	media	network	high	none	required	unchanged	none	low	none
CVE-2026-47057	7.5	core-libs	javax.script	network	low	none	none	unchanged	none	none	high
CVE-2026-47058	7.4	core-libs	javax.script	network	high	none	none	unchanged	high	high	none
CVE-2026-47059	5.9	client-libs	2d	network	high	none	none	unchanged	none	none	low
CVE-2026-47063	7.5	security-libs	java.security	network	low	none	none	unchanged	none	high	none
CVE-2026-60147	6.5	security-libs	java.security	network	low	none	none	unchanged	low	low	none
CVE-2026-60164	3.1	javafx	web	network	high	none	required	unchanged	low	none	none
CVE-2026-60165	3.1	javafx	media	network	high	none	required	unchanged	none	low	none
CVE-2026-60166	3.1	javafx	media	network	high	none	required	unchanged	low	none	none

5. Resolved Issues

JDK issues

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

Issue ID	Summary
JDK-6815126	intermittent SimulResumerTest.java failure
JDK-8162545	Mac build failure
JDK-8199138	Add RISC-V support to Zero
JDK-8209362	sun/security/ssl/SSLSocketImpl/ReuseAddr.java failed due to "BindException: Address already in use (Bind failed)"
JDK-8246330	Add TLS Tests for Legacy ECDSA curves
JDK-8249159	Downport test rework for SSLSocketTemplate from 8224650
JDK-8261235	C1 compilation fails with assert(res→vreg_number() == index) failed: conversion check
JDK-8273135	java/awt/color/ICC_ColorSpace/MTTransformReplacedProfile.java crashes in libcms.dylib with NULLSeek+0x7
JDK-8274736	Concurrent read/close of SSLSockets causes SSLSessions to be invalidated unnecessarily
JDK-8280158	New test from JDK-8274736 failed with/without patch in JDK11u

Issue ID	Summary
JDK-8298873	Update IllegalRecordVersion.java for changes to TLS implementation
JDK-8301189	validate-source fails after JDK-8298873
JDK-8314730	[GHA] Drop libfreetype6-dev transitional package in favor of libfreetype-dev
JDK-8321489	Update LCMS to 2.16
JDK-8336451	[11u] GHA macos-13 and macos-15 builders are unable to resolve local hostname
JDK-8339271	giflib attribution correction
JDK-8343622	AesDkCrypto.stringToKey should not return null
JDK-8345578	New test in JDK-8343622 fails with a promoted build
JDK-8348110	Update LCMS to 2.17
JDK-8351359	OperatingSystemMXBean: values from getCpuLoad and getProcessCpuLoad are stale after 24.8 days (Windows)
JDK-8363966	[GHA] Switch cross-compiling sysroots to Debian trixie
JDK-8368041	Enhance TLS certificate handling
JDK-8369996	Testcase java/net/Socket/B8312065.java fails on Mac, AIX and Solaris
JDK-8372351	Add 2 WiSeKey roots
JDK-8374058	Enhance JPEG handling

Issue ID	Summary
JDK-8374888	Implement internal test cache to help UserIterCount test performance
JDK-8375065	Update LCMS to 2.18
JDK-8377158	Enhance XBM image support
JDK-8377498	Improve HttpServer handling
JDK-8377833	Enhance Jar file processing
JDK-8378631	Update Zlib Data Compression Library to Version 1.3.2
JDK-8378687	Improve delegation of HttpURLConnection
JDK-8379256	Update GIFlib to 6.1.1
JDK-8379684	Bump update version of OpenJDK: 8u502
JDK-8380078	Update GIFlib to 6.1.2
JDK-8380377	[8u] Problem list CAInterop.java#teliarootcav2
JDK-8380672	Improve certification checking
JDK-8380689	distrust/Chunghwa.java test fails with a compilation error
JDK-8380947	Add pull request template
JDK-8380959	Update Libpng to 1.6.56
JDK-8381039	Enhance AWT ImagingLib

Issue ID	Summary
JDK-8381049	Enhance Jar handling
JDK-8381185	Improve Nashorn index handling
JDK-8381195	Enhance Dataview Implementation
JDK-8381519	Enhance Der Value Handling
JDK-8381796	Enhance Certificate parsing
JDK-8382047	Update Libpng to 1.6.57
JDK-8383175	(tz) Update Timezone Data to 2026b
JDK-8383354	Update LCMS to 2.19.1
JDK-8383473	Follow on from tzdata2026b time change to include temporary hack BC time change
JDK-8384158	[GHA] Downgrade Windows GHA runners to windows-2022 temporarily

JFX issues

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

Issue ID	Summary
JDK-8313040	Enhanced Font handling
JDK-8313072	Enhanced handling of Fonts

Issue ID	Summary
JDK-8373527	Improve Graphics playback
JDK-8375084	Update libxslt to 1.1.45
JDK-8378226	Animated GIFs do not animate after WebKit 620.1 update
JDK-8378277	Improve Editor selection
JDK-8379206	4 Null pointer dereference defect groups in 4 glib files
JDK-8379207	Improve audio conversion
JDK-8379209	Uninitialised variable in pathApplierFunctionFast of coretext.c
JDK-8379211	Uninitialised memory in Java_com_sun_javafx_font_freetype_OSFreeType_FT_1Outline_1De compose
JDK-8379257	Update JPEG Image Decoding Software to 10
JDK-8379336	Update libxml2 to 2.15.2
JDK-8381447	Remove G_DISABLE_CHECKS compiler flag on Windows to align GLib/GStreamer compilation with macOS/Linux
JDK-8383092	Enhance WebView Resource Loading
JDK-8383143	Enhance Playlist Loading

6. Updates to Third Party Libraries

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

Library	Full name	New Version	Module	JBS number
GIFlib	GIFlib	6.1.2	java.desktop	JDK-8380078
LCMS	LittleCMS	2.19.1	java.desktop	JDK-8383354
libjpeg	JPEG Image Decoding Software	10	javafx.web	JDK-8379257
Libpng	Libpng	1.6.57	java.awt	JDK-8382047
libxml2	libxml2	2.15.2	javafx.web	JDK-8379336
libxslt	libexslt	1.1.45	javafx.web	JDK-8375084
Zlib	Zlib	1.3.2	java.desktop	JDK-8378631

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](#).



Liberica JDK 8u502+9

Release Notes

be//soft