Liberica JDK 21.0.13.1+5
Release Notes



Liberica JDK
21.0.13.1
November 17, 2026

bellsoft

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Contents

1. Version information 5

2. What’s New 6

Builds of Liberica JDK With CRaC 6

IANA TZ Data version 6

- Briefly 6
- Changes to future timestamps 6
- Changes to past timestamps 6
- Changes to code 7
- Changes to documentation and commentary 7
- Changes to commentary 7
  - NOTE FOR TEMPORARY HACKS FOR CLDR AND CANADA: 7

3. Known Issues 9

4. Fixed CVEs 10

5. Resolved Issues 11

JDK issues 11

JFX issues 12

6. Updates to Third Party Libraries 13

7. Upgrading to the New Version 14

1. Version information

This document provides information about an unscheduled patch release for vulnerability fixes in Liberica JDK 21.0.13.1. The full version string for this update release is 21.0.13.1+5. The version number is 21.

Liberica JDK 21 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.

Builds of Liberica JDK With CRaC

This release of Liberica JDK includes full CRaC support. CRaC support is available for Liberica JDK 17 and 21. For more information, see Using CRaC with Java applications.

IANA TZ Data version

This release of Liberica JDK 21.0.13.1 comes with the 2026f version of the in-tree copy of the Time Zone Database. The following are the key features of this version.

Briefly

- Cuba will not fall back 2026-11-01; stays on -04 through 2027-11-07.
- No more leap seconds, and leap second tables no longer expire.
- Improve 1965/1966 data for Brazil.

Changes to future timestamps

Cuba will not fall back to -05 on 2026-11-01 and instead plans to maintain -04 through 2027-11-07.

Changes to past timestamps

In 1965 Brazil ended DST on 03-31 at 24:00 not 00:00, and in 1966 it ended DST on 03-01 at 01:00 not 00:00. (Thanks to Daniel Dias Rodrigues.)

Changes to code

zic now ignores Expires lines, as leap second tables in TZif files no longer expire now that there are no more leap seconds; see Internet RFC 9636 §3.2. (Thanks to Garrett Wollman for the heads-up re no more leap seconds.)

localtime.c no longer supports 49 leap seconds, as 27 now suffice. zic now warns if you go over the new limit.

A new compile-time flag -DMIN_TRANSITION_GAP=N specifies a minimum transition gap of N seconds when reading TZif files. It currently defaults to 0, but can be set to 1 if TZif files generated by zic 2021b and earlier are no longer of concern.

With 32-bit time_t, localtime.c functions now check for transition ordering in TZif data as carefully as they do with 64-bit time_t. (Problem reported by Ana Bobillo.)

On platforms like FreeBSD that have O_RESOLVE_BENEATH but lack O_REGULAR, localtime.c compiled with -DOPENAT_TZDIR now checks that a TZ setting with ".." components names a regular file before opening it in an unprivileged program, as it already did for other settings that might name a file outside TZDIR. This fixes a bug introduced in 2026c. (Thanks to Ana Bobillo.)

Changes to documentation and commentary

Documentation and commentary now reflect leap seconds' demise.

Changes to commentary

Discussion on timekeeping in northwestern Ontario has been updated to reflect that provincial regulation has been issued to allow these areas to stay aligned with America/Winnipeg and follow Manitoba's adoption of year-round -05 after all. (Thanks to Aoun Khan, Chris Walton, and Heitor David Pinto.)

Discussion on timekeeping in Saskatchewan has been updated to document its new Time Act, 2026 which comes into force on 2026-10-30. (Thanks to Heitor David Pinto.) No change is expected.

NOTE FOR TEMPORARY HACKS FOR CLDR AND CANADA:

This version continues to have temporary hacks to work around Canadian timekeeping bugs in Unicode CLDR releases before CLDR 49 (2026-10-22). These temporary hacks are planned to be

removed soon, as they also cause `zic` versions 2023d through 2026a, in their default mode that generates slim output, to generate TZif files that violate Internet RFC 9636 §3.3. The buggy files in turn cause some TZif readers, including `tzcode` itself, to ignore some 2026-11-01 02:00 transitions to from their old DST to their new standard times and abbreviations. Although the buggy files do not cause any known TZif reader to mishandle UT offsets, caution is advised when using `zic` 2023d through 2026a to compile data from more-recent tz releases. To work around this problem when using these older zic versions, use `zic -b fat`.

For more information, see JDK-8396048.

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-2026-114938	8.1	hotspot	compiler	network	high	none	none	unchanged	high	high	high
CVE-2026-114939	7.4	security-libs	org.ietf.jgss	network	high	none	none	unchanged	high	high	none
CVE-2026-114940	7.4	security-libs	javax.net.ssl	network	high	none	none	unchanged	high	high	none
CVE-2026-114941	7.0	hotspot	compiler	network	high	none	none	unchanged	low	low	high
CVE-2026-114942	7.0	core-libs		network	high	none	none	unchanged	low	low	high
CVE-2026-114943	6.5	hotspot	runtime	network	high	none	none	unchanged	none	low	high
CVE-2026-114944	5.9	core-svc	java.lang.management	network	high	none	none	unchanged	none	high	none
CVE-2026-114945	5.3	core-libs	java.lang	network	low	none	none	unchanged	none	low	none
CVE-2026-114946	4.8	hotspot	compiler	network	high	none	none	unchanged	low	low	none
CVE-2026-86144	7.5	javafx	web	network	high	none	required	unchanged	high	high	high

5. Resolved Issues

JDK issues

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

Issue ID	Summary
JDK-8316771	Krb5.java has not defined messages for all error codes
JDK-8387162	Enhance Kerberos tickets
JDK-8387541	Enhance StringBuilder checks
JDK-8389830	Enhance JFR Events
JDK-8389989	Enhance loop handling
JDK-8390694	Enhance vector masks
JDK-8390852	Improve integer compression
JDK-8391595	[REDO] Enhance JMX Connections
JDK-8393195	Update Libpng to 1.6.59
JDK-8393212	Base64 optimization improvements
JDK-8393456	Improve TLS client connections
JDK-8394492	Update FreeType to 2.15.0

Issue ID	Summary
JDK-8394664	Bump update version for OpenJDK: jdk-21.0.13.1
JDK-8396048	(tz) Update to tzdata2026f

JFX issues

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

Issue ID	Summary
JDK-8392009	Update libxml2 to 2.15.4
JDK-8395405	Change JavaFX release version to 21.0.13.1 in jfx21u

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
FreeType	FreeType	2.15.0	java.desktop	JDK-8394492
Libpng	Libpng	1.6.59	java.awt	JDK-8393195

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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