Liberica JDK 21.0.3+12
Release Notes

Liberica JDK
21.0.3
May 16, 2024

bellsoft

Copyright © BellSoft Corporation 2018-2024.

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. Introduction 4

2. Liberica JDK 21.0.3+12 5

3. Liberica JDK 21 distribution 6

4. Known Issues 7

5. CVEs 8

6. Notable Issues 9

7. Resolved Issues 10

1. Introduction

This document provides the late-breaking information about Liberica JDK 21.0.3 release.

The full version string for this update release is 21.0.3+12. The version number is 21.

2. Liberica JDK 21.0.3+12

Liberica is a certified, Java SE 21-compliant distribution of OpenJDK 21, which works on server (Linux x86_64, Linux ARM64, Windows 64), desktop (Windows 64, Mac, Linux x86_64), and embedded devices (Linux ARM64, Linux ARMv7, including Raspberry Pi 2 & 3 (ARMv6 hardfloat)). It has the following notable additions:

- Linux x86_64 version contains support for ZGC.
- Linux x86_64, ARMv8 and ARMv7 distributions include a choice of Client VM, Server VM and Minimal VM.
- Alpine Linux x86_64 and aarch64 are built with musl support.
- Windows x86_64, Windows ARMv8, Mac, Linux x86_64, and Linux ARMv7 distributions contain OpenJFX 21.
- Linux ARMv7 distribution contains Device IO API compiled for Raspberry Pi.

Refer to the Oracle JDK 21.0.3 release notes for further information on JDK 21 features. This document further outlines the peculiarities of Liberica distribution as compared to Oracle JDK 21 distribution.

3. Liberica JDK 21 distribution

Liberica JDK 21 is distributed as .rpm, .zip, .deb and .tar.gz packages. Please select the most appropriate for your purposes.

Liberica JDK 21 introduced all new features supported by OpenJDK 21.

With the introduction of the Jigsaw feature in JDK 9 and Minimal VM it is now possible to create a Runtime that is sufficient to run your application and trim down the size of the Runtime. To generate a Runtime with just the Minimal VM, add `--vm=minimal` to jlink options.

By default, the Liberica uses Server VM. Server VM and Client VM can be enabled with `-server` and `-client` command line options, respectively. In case the deployment requires minimizing the footprint, it may be beneficial to use Minimal VM, which emphasis is a minimal footprint. It has C1 JIT compiler only, Serial GC and no serviceability features.

4. Known Issues

This build does not contain any additional known issues. For the list of Liberica JDK known issues, see Liberica JDK 21.0.3+10 Known Issues.

5. CVEs

This build does not contain any additional fixed CVEs. For the list of Liberica JDK fixed CVEs, see Liberica JDK 21.0.3+10 Fixed CVEs.

6. Notable Issues

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

Issue ID	
N/A	Summary: Improved CDS archive Description: Improved building of the CDS archive (classes.jsa and classes_nocoops.jsa) on supported platforms. Bundles with client and server VM contain CDS archives (including JDK and JRE).

7. Resolved Issues

This build does not contain any additional fixed issues. For the list of Liberica JDK fixed issues, see Liberica JDK 21.0.3+10 Fixed Issues.

Liberica JDK 21.0.3+12
Release Notes

bell//soft