

Liberica Native Image Kit 23.1.3+2 (21.0.3+10) Release Notes



Liberica NIK
21.0.3
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1. Introduction

This document provides information about Liberica NIK release.

This particular version of Liberica NIK 23.1.3+2 is based on Liberica JDK 21.0.3+10.

**Note:**

For more information about Liberica JDK release, see [Liberica JDK Release Notes](#).

[Liberica Native Image Kit](#) is a utility Based on [GraalVM Open Source](#) that is capable of converting your JVM-based application into a fully compiled native executable ahead-of-time under the closed-world assumption with an almost instant startup time.

Liberica NIK supports the following platforms:

- Linux x86_64 (glibc)
- Linux Alpine x86_64 (musl)
- Linux AArch64 (glibc)
- Linux Alpine AArch64 (musl)
- Mac OS x86_64
- Mac OS AArch64
- Windows x86_64

Liberica NIK distribution

Liberica NIK is distributed as .apk, .deb, .dmg, .msi, .pkg, .rpm, .tar.gz, and .zip packages. Please [select the most appropriate](#) for your purposes.

2. What's New

This release contains the following updates and new features.

Notable Issues

This release does not contain any notable issues. For the list of Liberica JDK notable issues, see [Liberica JDK Release Notes](#)

Language and framework versions

Liberica NIK 23.1.3 supports the following languages and frameworks:

Component	Version
LLVM	16.0.1 (GraalVM CE Native 23.1.3)
Python	3.10.8 (GraalVM CE Native 23.1.3)
NodeJS	18.19.1
Java	Liberica JDK 21.0.3+10
Java Script	GraalVM JavaScript (GraalVM CE Native 23.1.3)
R	4.0.3 (FastR)
TruffleRuby	23.1.3 (Ruby 3.0.3)

Component	Version
Native Image	GraalVM version 23.1.3 (Liberica JDK 21.0.3+10, LTS)
Wasm	WebAssembly (GraalVM CE Native 23.1.3)

3. Known Issues

This release does not contain any known issues. For the list of Liberica JDK known issues, see [Liberica JDK Release Notes](#)

4. 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-2023-46809	6.8	node.js	crypto	network	high	low	none	unchanged	high	high	none
CVE-2023-5678	5.3	node.js	openssl	network	low	none	none	unchanged	none	none	low
CVE-2023-6129	6.5	node.js	openssl	network	high	none	none	unchanged	none	low	high
CVE-2024-0727	5.5	node.js	openssl	local	low	none	required	unchanged	none	none	high
CVE-2024-21892	7.5	node.js	credentials	local	high	low	none	changed	high	high	none
CVE-2024-22019	7.5	node.js	llhttp	network	low	none	none	unchanged	none	none	high
CVE-2024-22025	6.5	node.js	zlib	network	low	none	required	unchanged	none	none	high
CVE-2024-24758	3.9	node.js	undici	network	high	high	required	unchanged	low	low	low
CVE-2024-24806	7.3	node.js	libuv	network	low	none	none	unchanged	low	low	low

5. Resolved Issues

Liberica NIK issues

This is the list of Liberica NIK issues fixed in this release.

Issue ID	Summary
GR-49301	Workaround CPU features Xcode 15 miscomp issue (GR-49301)
GR-51022	Backport to 23.1: Built-ins for the current time should reflect the changes in system time.
GR-51294	Backport to 23.1: Deprecate ZeroExtendNode.inputAlwaysPositive.
GR-51438	[GR-51888] Backport to 23.1: Don't rethrow internal parser errors as SyntaxError.
GR-51667	Backport to 23.1: Use safe abs in loop opts.
GR-51744	Backport to 23.1: Fix possible infinite recursion in AbstractJSObjectArray.setElementImpl.
GR-52325	Backport to 23.1: Deopt loops in NetSuite JS code.
GR-52396	Backport to 23.1: Fix wasm.jar not being included in nodejs jvm standalone.
GR-52465	Backport to 23.1: Upgrading the underlying Node.js to version 18.19.1.
GR-52692	Backport to 23.1: CInterfaceWrapper Hooks

Issue ID	Summary
GR-52947	Backport to 23.1: GH-8638: Correctness problem when System.arraycopy a byte array.
GR-53048	Backport 23.1: Workaround CPU features Xcode 15 miscomp issue.
GR-53188	Release GraalVM 23.1.3

6. Upgrading to the New Version

To keep your Liberica NIK 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 NIK Installation Guide](#).



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