

# Liberica Native Image Kit 23.1.7+1 (21.0.7+9) Release Notes



Liberica NIK  
21.0.7  
April, 2025

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# 1. Introduction

This document provides information about Liberica NIK release.

This particular version of Liberica NIK 23.1.7+1 is based on Liberica JDK 21.0.7+9.

**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 23.1.7 supports the following languages and frameworks:

Component	Version
LLVM	16.0.1 (GraalVM CE Native 23.1.7)
Python	3.10.8 (GraalVM CE Native 23.1.7)
Node.js	18.20.6
Java	Liberica JDK 21.0.7+9
Java Script	GraalVM JavaScript (GraalVM CE Native 23.1.7)
R	4.0.3 (FastR)
TruffleRuby	23.1.7 (Ruby 3.2.2)

Component	Version
Native Image	GraalVM version 23.1.7 (Liberica JDK 21.0.7+9, LTS)
Wasm	WebAssembly (GraalVM CE Native 23.1.7)

## 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-2024-47606	8.6	N/A	N/A	Local	Low	None	None	Unchanged	High	High	High
CVE-2024-54534	9.8	N/A	N/A	Network	Low	None	None	Unchanged	High	High	High
CVE-2025-23083	7.7	N/A	N/A	Local	Low	None	None	Unchanged	High	High	None
CVE-2025-23084	5.6	N/A	N/A	Local	Low	Low	Required	Unchanged	High	Low	None
CVE-2025-23085	5.3	N/A	N/A	Network	Low	None	None	Unchanged	None	None	Low



## 5. Resolved Issues

### Liberica NIK issues

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

Issue ID	Summary
GR-47055	Port JDK-8309545. Thread.interrupted from virtual thread needlessly resets interrupt status.
GR-51149	Wrong error message when polyglot implementation is missing. Removed obsolete message.
GR-52657	Fix simplification of always-deopt FixedGuard.
GR-52884	Cannot update closed speculation encoding.
GR-53407	Optionally ignore OutOfMemoryErrors while in VM-internal code.
GR-53541	Fixed a deadlock if we run OutOfMemory while entering a synchronized blocks.
GR-53801	NullPointerException. Cannot invoke "com.oracle.truffle.polyglot.InternalResourceRoots\$Root.path()" because "this.owningRoot" is null.
GR-53938	Reimplement linking wasm module imports from JS.
GR-54079	Post cherry-pick fixes.
GR-54163	Added stack traces to non-bailout compilation failures. Fixed LTS compatibility problems.

Issue ID	Summary
GR-54505	Validate Wasm function arguments when called through Interop.
GR-54545	Backport 23.1. Timeout of gate-vm-ce-truffle-unchained-labsjdk-latest-linux-amd64
GR-54582	Annotate methods in ImplicitExceptions with @Uninterruptible.
GR-54706	Wasm modules compiled and instantiated via the JS API should be cached.
GR-54851	Fix handling of trailing code after terminating end marker. Check that function/block type index is in bounds.
GR-55243	Prevent that large array allocations in VM-internal code trigger OutOfMemoryErrors.
GR-56351	Fix option ImplicitExceptionWithoutStacktracesFatal.
GR-56816	Add option VerifyDuringGC.
GR-56816	Improve serial GC heap verification.
GR-56861	Split CommittedMemoryProvider.
GR-56863	Fix serial GC collection count and time so that it is consistent with '-XX:+VerboseGC' and emitted JFR events.
GR-56883	Add FeatureHandler.containsFeature().
GR-61882	Backport to 23.1. Upgrading the underlying Node.js to version 18.20.6.
GR-62376	Backport to 23.1. Compilation failure in ImportMetaNode.

## 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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