

Liberica Native Image Kit 25.0.4-1 (25.0.4+10) Release Notes



Liberica NIK
25.0.4
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1. Introduction

This document provides information about Liberica NIK release.

This particular version of Liberica NIK 25.0.4-1 is based on Liberica JDK 25.0.4+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 25.0.4 supports the following languages and frameworks:

Component	Version
LLVM	20.1.4 (GraalVM CE Native 25.0.4)
Python	3.12.8 (GraalVM CE Native 25.0.4)
Node.js	22.22.2
Java	Liberica JDK 25.0.4+10
Java Script	GraalVM JavaScript (GraalVM CE Native 25.0.4)
TruffleRuby	25.0.4 (Ruby 3.3.7)
Native Image	GraalVM version 25.0.4 (Liberica JDK 25.0.4+10, LTS)
Wasm	WebAssembly (GraalVM CE Native 25.0.4)

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-2026-41254	7.5	client-libs	2d	network	low	none	none	unchanged	none	none	high
CVE-2026-46917	5.3	security-libs	javax.net.ssl	network	low	none	none	unchanged	none	none	low
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-2026-47059	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

5. Resolved Issues

Liberica NIK issues

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

Issue ID	Summary
GR-51123	Support Native Image JFR and heap dumps on Windows
GR-70732	Backport to 25.0: Fix PyMapping_(Items/Keys/Values) with dict subclasses
GR-70900	Backport to 25.0.1: Ensure pip should not patch pip.
GR-71149	Add API to control which bootstrap methods are allowed to be executed at build time
GR-71390	Backport to 25.0: Reduce image size when using JFR.
GR-71391	Backport to 25.0: Reduce default JFR global buffer size to lower footprint.
GR-72133	Backport to 25.0: Add missing O_* posix constants
GR-72135	Backport to 25.0: Unify and fix codec error handlers
GR-72435	Backports : bulk native image fixes and optimizations.
GR-72458	Backport to 25.0: Notify inliner when a call target is specialized.
GR-72458	Backport to 25.0: Notify inliner when a call target is specialized

Issue ID	Summary
GR-72571	Backport to 25.0: Transient aux-engine-cache test failure.
GR-72639	Backport to 25.0: Implement <code>ByteArrayWasmMemory#asByteBuffer</code> .
GR-72648	Backport to 25.0: Remove faulty assertion in Truffle call target splitting.
GR-72665	Backport to 25.0: TruffleString: Fix wrong assertion in <code>TransCodeIntlNode</code> .
GR-72889	[GR-73368] Update labsjdk to 25.0.3+4-jvmci-b01
GR-72889	Update labsjdk to 25.0.3+2-jvmci-b01
GR-72889	Update labsjdk to 25.0.3+6-jvmci-b01
GR-72889	Update labsjdk to 25.0.3+7-jvmci-b01
GR-72889	Update labsjdk to 25.0.3+9-jvmci-b01
GR-72894	Backport to 25.0: Improve reflection registration in extension layers
GR-72939	Backport to 25.0.3: Upgrading Node.js version used by graal-nodejs to 22.22.0.
GR-73049	Backport to 25.0: Race conditions in <code>JfrRecurringCallbackExecutionSampler</code> .
GR-73089	Backport to 25.0: <code>TRegex</code> : fix bugs uncovered by latest fuzzing round.
GR-73112	Backport to 25.0 : make <code>PreserveOptionsSupport.registerType</code> public

Issue ID	Summary
GR-73119	Remove support for darwin/amd64 CI jobs.
GR-73285	Backport to 25.0: Ensure that all isolates see a consistent global state.
GR-73311	[GR-73316] Backport to 25.0: Interop improvements.
GR-73341	Backport to 25.0: Allow generation of SSE V128_DOUBLE stores
GR-73372	Backport to 25.0: Don't translate UnsupportedOperationException to UnsupportedOperationException for ProxyExecutable.
GR-73379	Backport to 25.0: Don't return Number objects directly to host if they are also TruffleObject objects.
GR-73399	Backport to 25.0: Remove infrequent fast paths from list creation
GR-73449	Backport to 25.0: TRegex: sync OracleDB flavor with upstream update to Unicode version 17
GR-73523	Backport to 25.0: Fix PE bailout in eval().
GR-73535	Backport to 25.0: Disable transiently failing Windows jobs.
GR-73639	Backport to 25.0: Prevent constant folding of elements that should not be reflectively accessible
GR-73806	Backport to 25.0: An error occurred while writing the heap dump (darwin-aarch64)
GR-73812	Backport to 25.0: Fix simplification of $x < x + a$
GR-73891	Backport to 25.0: Fix complex add/sub handling of negative zero

Issue ID	Summary
GR-73934	Backport to 25.0: Race condition in ThreadStatusTransition.fromNativeToJava(...).
GR-74174	Fix missing reflection registration for LocaleDisplayNamesImpl constructor.
GR-74224	Backport to 25.0: Restrict Chrome Inspector to localhost.
GR-74228	Backport to 25.0: Add callback-based engine cache persistence API
GR-74299	Backport to 25.0: Fix missing reflection registration for ICU4J.
GR-74369	Backport to 25.0: Fix resource tracing bugs with the JVMTI tracer.
GR-74407	Backport to 25.0: Fix groovy substitutions for Groovy 5+.
GR-74942	Backport to 25.0: Ensure ArchiveSupport extracts to intended directory
GR-75014	Mask indexed store addresses.
GR-75058	Ensure that WASI does not follow symlinks out of preopened dirs.
GR-75171	Backport to 25.0: Omit statically required modules from the native image builder module path.
GR-75182	Backport to 25.0: Create dummy source with non-zero line number.
GR-75268	Backport to 25.0: TRegex: escape Truffle Source name in TRegexExecutorRootNode.toString.
GR-75412	Tighten MethodHandleNode type guard
GR-75571	Fix Long.MIN_VALUE < normalizeCompare(a, b) folding

Issue ID	Summary
GR-75577	NonmovableArrays: use word to compute offsets from indexes.
GR-75580	Remove NO_TRANSITION from dlsym(...)
GR-75584	Fix platform-specific logic in attachHelper.c
GR-75750	Fix constructor invokespecial receiver validation
GR-75750	Fix method handle casts and constructor invokespecial receiver validation
GR-75755	Initialize JDK Password ConsoleHolder at run time.
GR-76386	Move 'native-image-utils extract-sbom' to CE

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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Release Notes

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