Liberica JDK 17.0.14+10
Release Notes

be//soft

Contents

7. Upgrading to the New Version

1. Version information

This document provides information about Liberica JDK 17.0.14 release.

The full version string for this update release is 17.0.14+10. The version number is 17.

Liberica JDK 17 is distributed as `.apk`, `.rpm`, `.zip`, `.deb`, 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.

Notable Changes

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

Issue ID	
JDK-8339582	Summary: {ClassLoading,Memory}MXBean::isVerbose methods are inconsistent with their setVerbose methods Description: The ClassLoadingMXBean and MemoryMXBean APIs have setVerbose methods to control verbose mode and isVerbose methods to query it. Some JCK tests expect setVerbose(false) to disable verbose mode and, subsequently, isVerbose() to return false. However, if logging to a file is enabled by using '-Xlog' on the java launcher command line, isVerbose() returned true even after calling setVerbose(false).
JDK-8339822	Summary: Introspector ignores default interface methods Description: When retrieving the properties from a bean the 'java.beans.Introspector' now returns the properties defined by getter/setter methods implemented as default methods in an interface implemented by the bean.
JDK-8339880	Summary: Indy string concat changes order of operations Description: This change causes the operands of string concatenation expressions to be evaluated and converted to strings in the correct order when using the invokedynamic-based strategies introduced in JEP 280.

Issue ID	
JDK-8339911	Summary: Distrust TLS server certificates issued after Oct 2024 and anchored by Entrust Root CAs Description: Google and Mozilla have announced plans to distrust TLS Server certificates issued by Entrust. This enhancement implements similar restrictions in the JDK. The restrictions is enforced in the SunJSSE Provider of the Java Secure Socket Extension (JSSE) API. A TLS session will not be negotiated if the server's certificate chain is anchored by any of the Certificate Authorities specified in this issue and the certificate's notBefore date is after October 31, 2024. If necessary, you can work around the restrictions by removing 'ENTRUST_TLS' from the 'jdk.security.caDistrustPolicies' security property.
JDK-8339912	Summary: BasicFileAttributes.creationTime() falls back to epoch if birth time is unavailable (Linux) Description: The change which resolved JDK-8316304 added support for obtaining the file creation time from the birth timestamp. Prior to this change, the last modified time had been returned to the creation time. After this change, if the birth timestamp was unavailable, for example if it was not supported by the file system even though the operating system supported it, then the epoch (0) was returned to the creation time. This could cause problems in situations which relied on the old behavior.
JDK-8341394	Summary: Add 2 SSL.com TLS roots Description: New SSL.com TLS roots are added as they are the issuing CA used by Entrust going forward.
JDK-8341395	Summary: Change Entrust TLS distrust date to November 12, 2024 Description: Google has changed their distrust date for Entrust from November 1 to November 12, 2024. Entrust has also changed the date they plan to use SSL.com as the issuing CA for public TLS server certificates to November 12. To align with those updated dates, the distrust date was changed to November 12, 2024.

Issue ID	
JDK-8342325	Summary: Update default value and extend the scope of com.sun.jndi.ldap.object.trustSerialData system property Description: The LDAP Naming Service Provider implementation's default settings can be improved by disallowing the reconstruction of Java objects from different LDAP attributes (RFC 2713). Changes include the following modifications: Extended the scope of the system property to cover the creation of RMI remote objects from the 'javaRemoteLocation' LDAP attribute; Updated the default value of 'com.sun.jndi.ldap.object.trustSerialData' system property to "false". That prevents the deserialization of java objects from the 'javaSerializedData' and the 'javaRemoteLocation' LDAP attributes.
JDK-8344909	Summary: Update Timezone Data to 2024b Description: This OpenJDK release upgrades the in-tree copy of the IANA timezone database to 2024b. This timezone update is primarily concerned with improving historical data for Mexico, Mongolia and Portugal. It also makes Asia/Choibalsan an alias for Asia/Ulaanbaatar and makes the MET timezone the same as CET.
JDK-8345436	Summary: Add an operation mode to the jar command when extracting to not overwrite existing files Description: In previous OpenJDK releases, when the jar tool extracted files from an archive, it would overwrite any existing files with the same name in the target directory. With this release, a new option ('-k' or '--keep-old-files') may be specified so that existing files are not overwritten. The option may be specified in short or long option form, as in the following examples: '* jar xkf foo.jar', '* jar --extract --keep-old-files --file foo.jar'. By default, the old behaviour remains in place and files are overwritten.

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 update

This release of Liberica JDK 17.0.14 upgrades the in-tree copy of the IANA timezone database to 2024b. This timezone update is primarily concerned with improving historical data for Mexico, Mongolia and Portugal. It also makes Asia/Choibalsan an alias for Asia/Ulaanbaatar and makes the MET timezone the same as CET.

The 2024b update also makes a number of legacy timezone IDs equal to geographical names rather than fixed offsets, as follows:

- EST → America/Panama instead of -5:00

- MST → America/Phoenix instead of -7:00

- HST → Pacific/Honolulu instead of -10:00

For long-term support releases of Liberica JDK, this change is overridden locally to retain the existing fixed offset mapping.

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-2025-21502	4.8	hotspot	compiler	network	high	none	none	unchanged	low	low	none

5. Resolved Issues

JDK issues

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

Issue ID	Summary
JDK-7093691	Nimbus LAF: disabled JComboBox using renderer has bad font color
JDK-8028127	Regtest java/security/Security/SynchronizedAccess.java is incorrect
JDK-8071693	Introspector ignores default interface methods
JDK-8195675	Call to insertText with single character from custom Input Method ignored
JDK-8202926	Test java/awt/Focus/WindowUpdateFocusabilityTest/WindowUpdateFocusabilityTest.html fails
JDK-8207908	JMXStatusTest.java fails assertion intermittently
JDK-8225220	When the Tab Policy is checked,the scroll button direction displayed incorrectly.
JDK-8240343	JDI stopListening/stoplis001 "FAILED: listening is successfully stopped without starting listening"
JDK-8254759	[TEST_BUG] [macosx] javax/swing/JInternalFrame/4202966/IntFrameCoord.html fails
JDK-8258734	jdk/jfr/event/oldobject/TestClassLoaderLeak.java failed with "RuntimeException: Could not find class leak"

Issue ID	Summary
JDK-8268364	jmethod clearing should be done during unloading
JDK-8269770	nsk tests should start IOPipe channel before launch debuggee - Debugee.prepareDebugee
JDK-8271003	hs_err improvement: handle CLASSPATH env setting longer than O_BUFLEN
JDK-8271456	Avoid looking up standard charsets in "java.desktop" module
JDK-8271821	mark hotspot runtime/MinimalVM tests which ignore external VM flags
JDK-8271825	mark hotspot runtime/LoadClass tests which ignore external VM flags
JDK-8271836	runtime/ErrorHandling/ClassPathEnvVar.java fails with release VMs
JDK-8272746	ZipFile can't open big file (NegativeArraySizeException)
JDK-8273914	Indy string concat changes order of operations
JDK-8274170	Add hooks for custom makefiles to augment jtreg test execution
JDK-8274505	Too weak variable type leads to unnecessary cast in java.desktop
JDK-8276763	java/nio/channels/SocketChannel/AdaptorStreams.java fails with "SocketTimeoutException: Read timed out"
JDK-8278527	java/util/concurrent/tck/JSR166TestCase.java fails nanoTime test
JDK-8280131	jcmd reports "Module jdk.jfr not found." when "jdk.management.jfr" is missing
JDK-8281379	Assign package declarations to all jtreg test cases under gc
JDK-8282578	AIOOBE in javax.sound.sampled.Clip

Issue ID	Summary
JDK-8283214	[macos] Screen magnifier does not show the magnified text for JComboBox
JDK-8283222	improve diagnosability of runtime/8176717/TestInheritFD.java timeouts
JDK-8284291	sun/security/krb5/auto/Renew.java fails intermittently on Windows 11
JDK-8284874	Add comment to ProcessHandle/OnExitTest to describe zombie problem
JDK-8286160	(fs) Files.exists returns unexpected results with C:\pagefile.sys because it's not readable
JDK-8287003	InputStreamReader::read() can return zero despite writing a char in the buffer
JDK-8288976	classfile parser 'wrong name' error message has the names the wrong way around
JDK-8289184	runtime/ClassUnload/DictionaryDependsTest.java failed with "Test failed: should be unloaded"
JDK-8290023	Remove use of IgnoreUnrecognizedVMOptions in gc tests
JDK-8290269	gc/shenandoah/TestVerifyJCStress.java fails due to invalid tag: required after JDK-8290023
JDK-8292309	Fix java/awt/PrintJob/ConstrainedPrintingTest/ConstrainedPrintingTest.java test
JDK-8293061	Combine CDSOptions and AppCDSOptions test utility classes
JDK-8293877	Rewrite MineField test
JDK-8294193	Files.createDirectories throws FileAlreadyExistsException for a symbolic link whose target is an existing directory

Issue ID	Summary
JDK-8294726	Update URLs in minefield tests
JDK-8295239	Refactor java/util/Formatter/Basic script into a Java native test launcher
JDK-8295344	Harden runtime/StackGuardPages/TestStackGuardPages.java
JDK-8295859	Update Manual Test Groups
JDK-8296709	WARNING: JNI call made without checking exceptions
JDK-8296718	Refactor bootstrap Test Common Functionalities to test/lib/Utils
JDK-8296787	Unify debug printing format of X.509 cert serial numbers
JDK-8296972	[macos13] java/awt/Frame/MaximizedToIconified/MaximizedToIconified.java: getExtendedState() != 6 as expected.
JDK-8298513	vmTestbase/nsk/jdi/EventSet/suspendPolicy/suspendpolicy009/TestDescription.java fails with usage tracker
JDK-8300416	java.security.MessageDigestSpi clone can result in thread-unsafe clones
JDK-8301379	Verify TLS_ECDH_* cipher suites cannot be negotiated
JDK-8302225	SunJCE Provider doesn't validate key sizes when using 'constrained' transforms for AES/KW and AES/KWP
JDK-8303697	ProcessTools doesn't print last line of process output
JDK-8303705	Field sleeper.started should be volatile JdbLockTestTarg.java
JDK-8303742	CompletableFuture.orTimeout leaks if the future completes exceptionally

Issue ID	Summary
JDK-8304020	Speed up test/jdk/java/util/zip/ZipFile/TestTooManyEntries.java and clarify its purpose
JDK-8304557	java/util/concurrent/CompletableFuture/CompletableFutureOrTimeoutExceptionallyTest.java times out
JDK-8306015	Update sun.security.ssl TLS tests to use SSLContextTemplate or SSLEngineTemplate
JDK-8307297	Move some DnD tests to open
JDK-8307408	Some jdk/sun/tools/jhsdb tests don't pass test JVM args to the debuggee JVM
JDK-8309109	AArch64: [TESTBUG] compiler/intrinsics/sha/cli/TestUseSHA3IntrinsicsOptionOnSupportedCPU.java fails on Neoverse N2 and V1
JDK-8309303	jdk/internal/misc/VM/RuntimeArguments test ignores jdk/internal/vm/options
JDK-8309532	java/lang/Class/getDeclaredField/FieldSetAccessibleTest should filter modules that depend on JVMCI
JDK-8310072	JComboBox/DisabledComboBoxFontTestAuto: Enabled and disabled ComboBox does not match in these LAFs: GTK+
JDK-8310731	Configure a javax.net.ssl.SNIMatcher for the HTTP/1.1 test servers in java/net/httpclient tests
JDK-8312111	open/test/jdk/java/awt/Robot/ModifierRobotKey/ModifierRobotKeyTest.java fails on ubuntu 23.04
JDK-8313374	--enable-ccache's CCACHE_BASEDIR breaks builds
JDK-8313638	Add test for dump of resolved references

Issue ID	Summary
JDK-8313854	Some tests in serviceability area fail on localized Windows platform
JDK-8313878	Exclude two compiler/rtm/locking tests on ppc64le
JDK-8314333	Update com/sun/jdi/ProcessAttachTest.java to use ProcessTools.createTestJvm(..)
JDK-8314824	Fix serviceability/jvmti/8036666/GetObjectLockCount.java to use vm flags
JDK-8314829	serviceability/sa/jmap-hprof/JMapHProfLargeHeapTest.java ignores vm flags
JDK-8314831	NMT tests ignore vm flags
JDK-8315097	Rename createJavaProcessBuilder
JDK-8315406	[REDO] serviceability/jdwp/AllModulesCommandTest.java ignores VM flags
JDK-8315988	Parallel: Make TestAggressiveHeap use createTestJvm
JDK-8316410	GC: Make TestCompressedClassFlags use createTestJvm
JDK-8316446	4 sun/management/jdp tests ignore VM flags
JDK-8316447	8 sun/management/jmxremote tests ignore VM flags
JDK-8316464	3 sun/tools tests ignore VM flags
JDK-8316562	serviceability/sa/jmap-hprof/JMapHProfLargeHeapTest.java times out after JDK-8314829
JDK-8316581	Improve performance of Symbol::print_value_on()
JDK-8317042	G1: Make TestG1ConcMarkStepDurationMillis use createTestJvm

Issue ID	Summary
JDK-8317116	Provide layouts for multiple test UI in PassFailJFrame
JDK-8317188	G1: Make TestG1ConcRefinementThreads use createTestJvm
JDK-8317218	G1: Make TestG1HeapRegionSize use createTestJvm
JDK-8317347	Parallel: Make TestInitialTenuringThreshold use createTestJvm
JDK-8317738	CodeCacheFullCountTest failed with "VirtualMachineError: Out of space in CodeCache for method handle intrinsic"
JDK-8318964	Fix build failures caused by 8315097
JDK-8319574	Exec/process tests should be marked as flagless
JDK-8319640	ClassicFormat::parseObject (from DateTimeFormatter) does not conform to the javadoc and may leak DateTimeException
JDK-8319651	Several network tests ignore vm flags when start java process
JDK-8319817	Charset constructor should make defensive copy of aliases
JDK-8320586	update manual test/jdk/TEST.groups
JDK-8320665	update jdk_core at open/test/jdk/TEST.groups
JDK-8320673	PageFormat/CustomPaper.java has no Pass/Fail buttons; multiple instructions
JDK-8320675	PrinterJob/SecurityDialogTest.java hangs
JDK-8321163	[test] OutputAnalyzer.getExitValue() unnecessarily logs even when process has already completed

Issue ID	Summary
JDK-8321299	runtime/logging/ClassLoadUnloadTest.java doesn't reliably trigger class unloading
JDK-8321470	ThreadLocal.nextHashCode can be static final
JDK-8321543	Update NSS to version 3.96
JDK-8321616	Retire binary test vectors in test/jdk/java/util/zip/ZipFile
JDK-8322754	click JComboBox when dialog about to close causes IllegalComponentStateException
JDK-8322766	Micro bench SSLHandshake should use default algorithms
JDK-8322809	SystemModulesMap::classNames and moduleNames arrays do not match the order
JDK-8322830	Add test case for ZipFile opening a ZIP with no entries
JDK-8323562	SaslInputStream.read() may return wrong value
JDK-8323688	C2: Fix UB of jlong overflow in PhaseIdealLoop::is_counted_loop()
JDK-8324808	Manual printer tests have no Pass/Fail buttons, instructions close set 3
JDK-8324841	PKCS11 tests still skip execution
JDK-8325038	runtime/cds/appcds/ProhibitedPackage.java can fail with UseLargePages
JDK-8325525	Create jtreg test case for JDK-8325203
JDK-8325587	Shenandoah: ShenandoahLock should allow blocking in VM
JDK-8325610	CTW: Add StressIncrementalInlining to stress options

Issue ID	Summary
JDK-8325616	JFR ZGC Allocation Stall events should record stack traces
JDK-8325762	Use PassFailJFrame.Builder.splitUI() in PrintLatinCJKTest.java
JDK-8325851	Hide PassFailJFrame.Builder constructor
JDK-8326100	DeflaterDictionaryTests should use Deflater.getBytesWritten instead of Deflater.getTotalOut
JDK-8326121	vmTestbase/gc/g1/unloading/tests/unloading_keepRef_rootClass_inMemoryCompilation_keep_cl failed with Full gc happened. Test was useless.
JDK-8326611	Clean up vmTestbase/nsk/stress/stack tests
JDK-8326898	NSK tests should listen on loopback addresses only
JDK-8326948	Force English locale for timeout formatting
JDK-8327401	Some jtreg tests fail on Wayland without any tracking bug
JDK-8327474	Review use of java.io.tmpdir in jdk tests
JDK-8327924	Simplify TrayIconScalingTest.java
JDK-8328021	Convert applet test java/awt/List/SetFontTest/SetFontTest.html to main program
JDK-8328242	Add a log area to the PassFailJFrame
JDK-8328303	3 JDI tests timed out with UT enabled
JDK-8328379	Convert URLDragTest.html applet test to main
JDK-8328402	Implement pausing functionality for the PassFailJFrame

Issue ID	Summary
JDK-8328619	sun/management/jmxremote/bootstrap/SSLConfigFilePermissionTest.java failed with BindException: Address already in use
JDK-8328697	SubMenuShowTest and SwallowKeyEvents tests stabilization
JDK-8328723	IP Address error when client enables HTTPS endpoint check on server socket
JDK-8328957	Update PKCS11Test.java to not use hardcoded path
JDK-8330045	Enhance array handling
JDK-8330278	Have SSLSocketTemplate.doClientSide use loopback address
JDK-8330464	hserr generic events - add entry for the before_exit calls
JDK-8330621	Make 5 compiler tests use ProcessTools.executeProcess
JDK-8330814	Cleanups for KeepAliveCache tests
JDK-8331142	Add test for number of loader threads in BasicDirectoryModel
JDK-8331391	Enhance the keytool code by invoking the buildTrustedCerts method for essential options
JDK-8331405	Shenandoah: Optimize ShenandoahLock with TTAS
JDK-8331411	Shenandoah: Reconsider spinning duration in ShenandoahLock
JDK-8331495	Limit BasicDirectoryModel/LoaderThreadCount.java to Windows only
JDK-8331626	unsafe.cpp:162:38: runtime error in index_oop_from_field_offset_long - applying non-zero offset 4563897424 to null pointer

Issue ID	Summary
JDK-8331789	ubsan: deoptimization.cpp:403:29: runtime error: load of value 208, which is not a valid value for type 'bool'
JDK-8331863	DUIterator_Fast used before it is constructed
JDK-8331864	Update Public Suffix List to 1cbd6e7
JDK-8331999	BasicDirectoryModel/LoaderThreadCount.java frequently fails on Windows in CI
JDK-8332340	Add JavacBench as a test case for CDS
JDK-8332473	ubsan: growableArray.hpp:290:10: runtime error: null pointer passed as argument 1, which is declared to never be null
JDK-8332589	ubsan: unix/native/libjava/ProcessImpl_md.c:562:5: runtime error: null pointer passed as argument 2, which is declared to never be null
JDK-8332720	ubsan: instanceKlass.cpp:3550:76: runtime error: member call on null pointer of type 'struct Array'
JDK-8332724	x86 MacroAssembler may over-align code
JDK-8332777	Update JCStress test suite
JDK-8332825	ubsan: guardedMemory.cpp:35:11: runtime error: null pointer passed as argument 2, which is declared to never be null
JDK-8332866	Crash in ImageIO JPEG decoding when MEM_STATS in enabled
JDK-8332901	Select{Current,New}ItemTest.java for Choice don't open popup on macOS
JDK-8332903	ubsan: opto/output.cpp:1002:18: runtime error: load of value 171, which is not a valid value for type 'bool'

Issue ID	Summary
JDK-8332904	ubsan ppc64le: c1_LIRGenerator_ppc.cpp:581:21: runtime error: signed integer overflow: 9223372036854775807 + 1 cannot be represented in type 'long int'
JDK-8332935	Crash: assert(*lastPtr != 0) failed: Mismatched JNINativeInterface tables, check for new entries
JDK-8333317	Test sun/security/pkcs11/sslecc/ClientJSSEServerJSSE.java failed with: Invalid ECDH ServerKeyExchange signature
JDK-8333824	Unused ClassValue in VarHandles
JDK-8334057	JLinkReproducibleTest.java support receive test.tool.vm.opts
JDK-8334405	java/nio/channels/Selector/SelectWithConsumer.java#id0 failed in testWakeupDuringSelect
JDK-8334562	Automate com/sun/security/auth/callback/TextCallbackHandler/Default.java test
JDK-8334567	[test] runtime/os/TestTracePageSizes move ppc handling
JDK-8335142	compiler/c1/TestTraceLinearScanLevel.java occasionally times out with -Xcomp
JDK-8335267	[XWayland] move screencast tokens from .awt to .java folder
JDK-8335344	test/jdk/sun/security/tools/keytool/NssTest.java fails to compile
JDK-8335428	Enhanced Building of Processes
JDK-8335449	runtime/cds/DeterministicDump.java fails with File content different at byte ...

Issue ID	Summary
JDK-8335493	check_gc_overhead_limit should reset SoftRefPolicy::_should_clear_all_soft_refs
JDK-8335530	Java file extension missing in AuthenticatorTest
JDK-8335709	C2: assert(!loop→is_member(get_loop(useblock))) failed: must be outside loop
JDK-8335904	Fix invalid comment in ShenandoahLock
JDK-8335912	Add an operation mode to the jar command when extracting to not overwriting existing files
JDK-8336240	Test com/sun/crypto/provider/Cipher/DES/PerformanceTest.java fails with java.lang.ArithmeticException
JDK-8336257	Additional tests in jmxremote/startstop to match on PID not app name
JDK-8336315	tools/jpackage/windows/WinChildProcessTest.java Failed: Check is calculator process is alive
JDK-8336342	Fix known X11 library locations in sysroot
JDK-8336343	Add more known sysroot library locations for ALSA
JDK-8336413	gtk headers : Fix typedef redeclaration of GMainContext and GdkPixbuf
JDK-8336564	Enhance mask blit functionality redux
JDK-8336854	CAInterop.java#actalisauthenticationrootca conflicted with /manual and /timeout
JDK-8337066	Repeated call of StringBuffer.reverse with double byte string returns wrong result

Issue ID	Summary
JDK-8337320	Update ProblemList.txt with tests known to fail on XWayland
JDK-8337410	The makefiles should set problemlist and adjust timeout basing on the given VM flags
JDK-8337780	RISC-V: C2: Change C calling convention for sp to NS
JDK-8337810	ProblemList BasicDirectoryModel/LoaderThreadCount.java on Windows
JDK-8337851	Some tests have name which confuse jtreg
JDK-8337966	(fs) Files.readAttributes fails with Operation not permitted on older docker releases
JDK-8338058	map_or_reserve_memory_aligned Windows enhance remap assertion
JDK-8338101	remove old remap assertion in map_or_reserve_memory_aligned after JDK-8338058
JDK-8338109	java/awt/Mouse/EnterExitEvents/ResizingFrameTest.java duplicate in ProblemList
JDK-8338286	GHA: Demote x86_32 to hotspot build only
JDK-8338380	Update TLSCommon/interop/AbstractServer to specify an interface to listen for connections
JDK-8338402	GHA: some of bundles may not get removed
JDK-8338748	[17u,21u] Test Disconnect.java compile error: cannot find symbol after JDK-8299813
JDK-8338751	ConfigureNotify behavior has changed in KWin 6.2

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JDK-8338759	Add extra diagnostic to java/net/InetAddress/ptr/Lookup.java	
JDK-8339081	Bump update version for OpenJDK: jdk-17.0.14	
JDK-8339180	Enhanced Building of Processes: Follow-on Issue	
JDK-8339248	RISC-V: Remove li64 macro assembler routine and related code	
JDK-8339384	Unintentional IOException in jdk.jdi module when JDWP end of stream occurs	
JDK-8339470	[17u] More defensive fix for 8163921	
JDK-8339487	ProcessHandleImpl os_getChildren sysctl call - retry in case of ENOMEM and enhance exception message	
JDK-8339548	GHA: RISC-V: Use Debian snapshot archive for bootstrap	
JDK-8339560	Unaddressed comments during code review of JDK-8337664	
JDK-8339591	Mark jdk/jshell/ExceptionMessageTest.java intermittent	
JDK-8339637	(tz) Update Timezone Data to 2024b	
JDK-8339644	Improve parsing of Day/Month in tzdata rules	
JDK-8339731	java.desktop/share/classes/javax/swing/text/html/default.css typo in margin settings	
JDK-8339741	RISC-V: C ABI breakage for integer on stack	
JDK-8339787	Add some additional diagnostic output to java/net/ipv6tests/UdpTest.java	
JDK-8339803	Acknowledge case insensitive unambiguous keywords in tzdata files	

Issue ID	Summary
JDK-8339892	Several security shell tests don't set TESTJAVAOPTS
JDK-8339931	Update problem list for WindowUpdateFocusabilityTest.java
JDK-8340007	Refactor KeyEvent/FunctionKeyTest.java
JDK-8340008	KeyEvent/KeyTyped/Numpad1KeyTyped.java has 15 seconds timeout
JDK-8340210	Add positionTestUI() to PassFailJFrame.Builder
JDK-8340230	Tests crash: assert(is_in_encoding_range || k→is_interface() || k→is_abstract()) failed: sanity
JDK-8340306	Add border around instructions in PassFailJFrame
JDK-8340308	PassFailJFrame: Make rows default to number of lines in instructions
JDK-8340365	Position the first window of a window list
JDK-8340387	Update OS detection code to recognize Windows Server 2025
JDK-8340418	GHA: MacOS AArch64 bundles can be removed prematurely
JDK-8340461	Amend description for logArea
JDK-8340466	Add description for PassFailJFrame constructors
JDK-8340552	Harden TzdbZoneRulesCompiler against missing zone names
JDK-8340632	ProblemList java/nio/channels/DatagramChannel/ for Macos
JDK-8340657	[PPC64] SA determines wrong unextendedSP

Issue ID	Summary
JDK-8340684	Reading from an input stream backed by a closed ZipFile has no test coverage
JDK-8340785	Update description of PassFailJFrame and samples
JDK-8340799	Add border inside instruction frame in PassFailJFrame
JDK-8340812	LambdaForm customization via MethodHandle::updateForm is not thread safe
JDK-8340815	Add SECURITY.md file
JDK-8340899	Remove wildcard bound in PositionWindows.positionTestWindows
JDK-8341146	RISC-V: Unnecessary fences used for load-acquire in template interpreter
JDK-8341235	Improve default instruction frame title in PassFailJFrame
JDK-8341562	RISC-V: Generate comments in -XX:+PrintInterpreter to link to source code
JDK-8341635	[17u] runtime/ErrorHandling/ClassPathEnvVar test ignores external VM flags
JDK-8341688	Aarch64: Generate comments in -XX:+PrintInterpreter to link to source code
JDK-8341806	Gcc version detection failure on Alinux3
JDK-8341927	Replace hardcoded security providers with new test.provider.name system property
JDK-8341997	Tests create files in src tree instead of scratch dir
JDK-8342181	Update tests to use stronger Key and Salt size
JDK-8342183	Update tests to use stronger algorithms and keys

Issue ID	Summary
JDK-8342188	Update tests to use stronger key parameters and certificates
JDK-8342496	C2/Shenandoah: SEGV in compiled code when running jcstress
JDK-8342578	GHA: RISC-V: Bootstrap using Debian snapshot is still failing
JDK-8342669	[21u] Fix TestArrayAllocatorMallocLimit after backport of JDK-8315097
JDK-8342681	TestLoadBypassesNullCheck.java fails improperly specified VM option
JDK-8342701	[PPC64] TestOSRLotsOfLocals.java crashes
JDK-8342962	[s390x] TestOSRLotsOfLocals.java crashes
JDK-8343285	java.lang.Process is unresponsive and CPU usage spikes to 100%
JDK-8343474	[updates] Customize README.md to specifics of update project
JDK-8343687	[17u] TestAntiDependencyForPinnedLoads requires UTF-8
JDK-8343848	Fix typo of property name in TestOAEPPadding after 8341927
JDK-8343877	Test AsyncClose.java intermittent fails - Socket.getInputStream().read() wasn't preempted
JDK-8343923	GHA: Switch to Xcode 15 on MacOS AArch64 runners

JFX issues

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

Issue ID	Summary
JDK-8311806	Class ButtonAccessibility is implemented twice
JDK-8315870	icu fails to compile with Visual Studio 2022 17.6.5
JDK-8318388	Update libxslt to 1.1.39
JDK-8333374	Cannot invoke "com.sun.prism.RTTexture.contentsUseful()" because "this.txt" is null
JDK-8334124	Rendering issues with CSS "text-shadow" in WebView
JDK-8335714	Enhance playing MP3s
JDK-8335715	Improve Direct Show support
JDK-8336798	DRT test cssrounding.html test for linear layout fails with WebKit 619.1
JDK-8336941	Update libxslt to 1.1.42
JDK-8337481	File API: file.name contains path instead of name
JDK-8338306	WebView Drag and Drop fails with WebKit 619.1
JDK-8338307	Additional WebKit 619.1 fixes from WebKitGTK 2.44.3
JDK-8340208	Additional WebKit 619.1 fixes from WebKitGTK 2.44.4
JDK-8341920	Intermittent WebKit build failure on Windows generating PDB files in 619.1
JDK-8343135	Change JavaFX release version to 17.0.14 in jfx17u
JDK-8343630	Pass AccessControlContext to/from WebKit as opaque object

Issue ID	Summary	31
JDK-8345870	Failed to compile test/javafx/scene/web/CSSRoundingTest.java after 8336798	

6. Updates to Third Party Libraries

This release does not contain any changes in the third party libraries.

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.

Liberica JDK 17.0.14+10
Release Notes