bellsoft | Liberica JDK 6 & 7

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SECURE AND RELIABLE ON YOUR SERVER OR DESKTOP

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BellSoft, like every vendor, recommends upgrading your Java runtime to the latest LTS version as soon as it is released. However, we understand that this may not be feasible for some companies. If you are running services on Java™ 6 and 7, we highly recommend considering migrating to Liberica JDK to ensure the security and reliability of your applications.

Developed by BellSoft, Liberica JDK is a 100% open-source distribution of OpenJDK. Unlike Oracle JDK, BellSoft continues to support Java™ 6 and 7 by providing security and functional patches. Moreover, Liberica JDK is TCK verified, which means that applications that work with Oracle JDK, will seamlessly run on Liberica JDK.

As a leading contributor to the OpenJDK project and a member of the Vulnerability Group and JCP committee, BellSoft's engineers possess extensive experience in identifying and mitigating vulnerabilities across various Java™ versions. Rest assured, your project is in capable hands.

THIS DOCUMENT OUTLINES THE COMMERCIAL SUPPORT BELLSOFT PROVIDES FOR LIBERICA JDK 6 & 7 VERSIONS.

EXTENDED SUPPORT TIMELINE

THE VARIETY OF SUPPORTED CONFIGURATIONS

COMMUNICATION WITH OPENJDK CONTRIBUTORS AND SECURITY EXPERTS WITHOUT THE MIDDLE-MAN

REGULAR SECURITY UPDATES

Support Timeline

Oracle ended the commercial support of JDK 6 in 2018, and JDK 7 ended its service life as of July 2022. Liberica JDK 6 & 7 releases offer support that exceeds that of Oracle JDK 6 & 7 and will continue until 2028.

RELEASE	ORACLE JDK GA DATE	END OF ORACLE PUBLIC UPDATES	END OF COMMERCIAL SUPPORT ORACLE JAVA SE	LIBERICA JDK
JDK 6	Dec 2006	Apr 2013	Dec 2018	Mar 2028
JDK 7	Jul 2011	Apr 2015	Jul 2022	Mar 2028

Note that JDK 6 & 7 are in maintenance mode, and it is advised to consider upgrading JDK versions to at least JDK 8 to ensure continued support after that date.

Security Updates

New vulnerabilities are constantly being discovered and made public, raising the threat of breaches and exploit attacks. The only reliable way to prevent this is by receiving timely updates to your software, and implementing the latest security technologies. Oracle's decision to discontinue the commercial support for Java™ 6 and 7 makes these runtimes especially vulnerable, as their weaknesses are well-known and easily exploited.

We address this by providing Liberica JDK 6 & 7 with all relevant CPU security vulnerability updates developed within the OpenJDK Vulnerability Group [1], of which BellSoft is an active contributor. The CPU releases for 6 & 7 are made available quarterly, simultaneously with the releases for other Liberica versions. Zero-day vulnerabilities are handled through emergency releases. Thus, your runtime stays as secure as possible and is maintained with the same diligence as newer Java™ versions.

Compatibility

JDK 6 & 7, released in 2006 (JSR 270 [2]) and 2011 (JSR 336 [3]) respectively, are effectively in maintenance mode. The JCP executive committee [4], of which BellSoft is part of, has ratified the last maintenance update in 2015 for both the specification and TCK.

BellSoft ensures compatibility and absence of regressions for Liberica JDK 6 & 7 updates using the test suites available within the Java/OpenJDK ecosystem and through source code compatibility. Liberica JDK is based on the OpenJDK source code project, allowing BellSoft to collaborate with the rest of the OpenJDK ecosystem.

Given that the specifications for JDK 6 and 7 are frozen, the majority of incompatibilities arise not from JDK 6 and 7 themselves, but from the absence of mandatory updates and the disablement of specific cryptographic algorithms in the software they interact with. According to JSR 270, JDK 6 can support only TLS 1.0 and 1.1, while JDK 7 can support TLS 1.0, 1.1, and 1.2. With TLS 1.0 and 1.1 being disabled by default in JDK and most third-party software updates, it is recommended that JDK 6 be operated only in a sandboxed environment where the use of TLS 1.0 and 1.1 can be justified. Alternatively, a third-party library like Bouncy Castle [5] can be used to add support for TLS 1.2 and 1.3.

Depending on your unique circumstances, we can advise and help with setting up your runtime and workflow to enhance security and enable the implementation of secure automation solutions.

Scope of Support — How We Keep Your Runtimes Safe

BELLSOFT IS COMMITTED TO THE FOLLOWING ACTIVITIES FOR ENTERPRISE CUSTOMERS REQUIRING SUPPORT FOR JDK 6 & 7:

Cryptography maintenance:
Maintained in accordance with the OpenJDK cryptographic roadmap.

24/7 Support:
Our support team is available 24/7/365 to respond promptly to any runtime security incident.

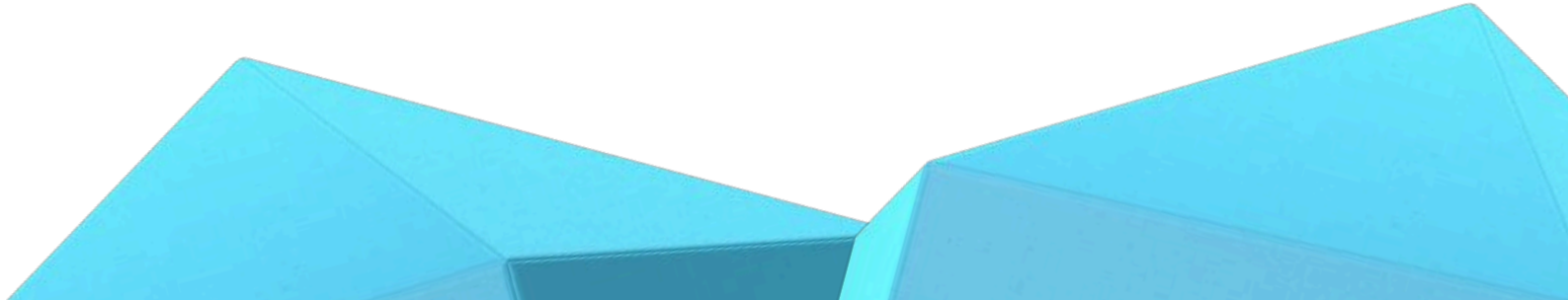
Quarterly Security Updates:
We release quarterly security updates for JDK 6 and 7, ensuring all relevant vulnerability fixes are available in line with other Liberica JDK releases.

Time Zone Data:
ANA timezone data is kept up-to-date.

Functional Regressions and Issues:
We fix functional regressions and other issues affecting the continued operation of customer business applications

Root Certificates:
Root certificates (cacerts) are updated

Note: in exceptional cases, a Liberica JDK fix or update may require an update or reconfiguration of the underlying OS to ensure continued operation of Liberica JDK.



Supported Platforms

BELLSOFT LIBERICA JDK 6 & 7 ARE PROVIDED AS MSI, ZIP, DEB, RPM AND TAR.GZ PACKAGES AND ARE SUPPORTED ON THE FOLLOWING PLATFORMS*:

PLATFORM	LIBERICA JDK 6	LIBERICA JDK 7
Linux x86_64 (64 bit), Linux x86 (32 bit)	Ubuntu Linux 12.04 (LTS) 14.04 (LTS) 15.04, 15.10 16.04 (LTS), 16.10 17.04, 17.10 18.04 (LTS), 18.10 19.04, 19.10 20.04 (LTS)	Ubuntu Linux 12.04 (LTS) 14.04 (LTS) 15.04, 15.10 16.04 (LTS), 16.10 17.04, 17.10 18.04 (LTS), 18.10 19.04, 19.10 20.04 (LTS)
	DEBIAN LINUX 8.X / 9.X / 10.X	DEBIAN LINUX 8.X / 9.X / 10.X
	RHEL, CentOS, Oracle Linux 5.5+ 6.x 7.x 8.x	RHEL, CentOS, Oracle Linux 5.5+ 6.x 7.x 8.x
	AMAZON LINUX VERSIONS 1, 2	AMAZON LINUX VERSIONS 1, 2
	SLES 11 SP2 11 SP3 12 SP1 12 SP2 12 SP3 12 SP4 12 SP5 15 15 SP1	SLES 11 SP2 11 SP3 12 SP1 12 SP2 12 SP3 12 SP4 12 SP5 15 15 SP1
Windows x86_64 (64 bit), Windows x86 (32 bit)	Windows Server 2019 Windows Server 2016 Windows Server 2012 R2 Windows Server 2012 Windows Server 2008 R2 Windows Server 2003** Windows 10 Windows 8 Windows 7 SP1+ Windows XP SP3**	Windows Server 2019 Windows Server 2016 Windows Server 2012 R2 Windows Server 2012 Windows Server 2008 R2 Windows Server 2003** Windows 10 Windows 8 Windows 7 SP1+ Windows XP SP3**

**Certification on other OSes is available on request.*
***BellSoft provides special builds of Liberica JDK 6 & 7 capable of running on Windows Server 2003 and Windows XP.*

THE FOLLOWING VIRTUAL ENVIRONMENTS ARE SUPPORTED:

Docker

KVM

Microsoft Hyper-V (gen 1 and gen 2)

VirtualBox

VMware vSphere Hypervisor

Licensing

Liberica JDK is made available under the GPLv2 with ClassPath Exception license [6], which permits running commercial and open source applications without imposing any restrictions on the field of use or time limitations.

References

[1] https://openjdk.java.net/groups/vulnerability/

[2] https://www.jcp.org/en/jsr/detail?id=270

[3] https://www.jcp.org/en/jsr/detail?id=336

[4] https://jcp.org/en/participation/committee

[5] https://www.bouncycastle.org/

[6] https://openjdk.java.net/legal/gplv2+ce.html