



Oracle Java SE Universal Subscription: Protect Your Investment in Java SE

Software platform maintenance and patching is one of the greatest challenges of managing business-critical applications. Oracle Java SE Universal Subscription combines license and support into a simple subscription that allows you to cost effectively manage Java SE installations, updates and upgrades across your enterprise.

As the main contributor and steward of Java SE, Oracle is the only company that can guarantee long-term support and updates on a timely and predictable schedule. The Java SE Universal Subscription from Oracle provides access to tools for consistently managing updates, enabling enterprises to monitor their own Java runtimes, and includes access to a specialized Java SE support team.

PROTECTING YOUR INVESTMENT IN JAVA SE

Java is the most widely used professional development language and the #1 developer choice for the cloud. To respond to the rapidly changing needs of developers, Oracle and the Java community introduced a six-month release cadence for Java SE, increasing the pace at which innovation is delivered to developers. It is now easier to keep up with Java's innovation and move to newer releases, as each six-month Feature release contains fewer updates compared with the large number of features delivered every two to three years in the Major Releases of the past. For enterprises, this affords greater predictability, consistency, and significant cost savings. This is illustrated in the sidebar, with findings from a September 2019 large enterprise survey on the relative cost of upgrading via different means.

Java developers no longer need to wait years between releases for eagerly awaited features; they can take advantage of new functionality every six months by upgrading to the latest JDK release at no cost. To simplify licensing, Oracle offers OpenJDK builds under the GNU General Public License (GPL), the same license used for Linux distributions. This makes Java SE more open and easier to use than ever. To simplify how organizations license Java SE, obtain long-term support and secure



Enterprises prefer maximum flexibility with Java version selection. In a recent survey, 56% of respondents preferred staying with the version of Java used when their applications went into production and upgrading to new feature versions of Java based on business schedules, not development schedules. Upgrading Java SE through a Java SE Universal Subscription makes this possible provides flexibility over fixed update schedules.¹

Enterprises are increasingly focused on comprehensive software support and mission critical software patching.

Most large organizations have dozens of distinct Java versions installed.

access to updates of older JDK versions, Oracle offers the Java SE Universal Subscription.

Updates for JDK 11 and 8 are available under an OTN License agreement which permits free personal use, development use, and use with Oracle products. Other uses require a Java SE Subscription. Updates for JDK 17 are currently available under the no-fee-terms and conditions license and until approximately one year after the next LTS release (scheduled for September 2023). With a Java SE Universal Subscription, you will have access to tools, features and updates that help you manage your cloud, server, and desktop deployments. These enterprise management capabilities help you optimize the performance, stability and security of your Java SE investments. Java SE Universal Subscription lets you upgrade and update your applications on your own schedule.

IMPROVING JAVA MANAGEMENT ACROSS THE ENTERPRISE

An enterprise-wide review often reveals business critical applications that run on Java SE. The average organization has dozens of distinct versions of the Java platform installed across desktops, servers, and cloud. Keeping out-of-date versions of Java in your environments may present a security risk. Customers should always install updates to get the latest performance and security improvements.

- Java Management Service (JMS) is a modern native Oracle Cloud Infrastructure (OCI) service that monitors Java deployments running in the cloud and on customers' locations. It allows you to observe and manage the use of Java in your enterprise. JMS helps you with insights and application lifecycle management features across your entire Java portfolio including third party clouds. Please see the "Getting Started with Java Management Service" guide for more information.
- Oracle Java SE Advanced Management Console (AMC) provides a dashboard view of Java versions deployed across the organization, enabling tighter control of platform updates and security fixes. AMC collects information about which Java applications are launched by which Java versions, creating an application compatibility inventory.
- Oracle JDK, including Java SE 8, offers local usage logging which paired with AMC helps build a realistic application inventory by cataloging which Java versions are used for which applications.
- The Java SE 8 Deployment Rule Set capabilities enable you to control Java execution in browsers across the enterprise including control of security prompts, and implementation of corporate allow/deny policies for web start applications. You can define rule sets that allow different Java applications to use different versions of Java installed on clients. This benefits organizations who must use older versions of Java or need to support multiple Java versions.
- Java Flight Recorder and Java Mission Control provide in-production diagnostics with minimal performance overhead, which results in better uptime.
- Java SE 8 MSI customizations: System Administrators can use the Java Installer Customization Tool to repackage MSIs, controlling the way that Java is installed on managed systems.

The average hourly cost of a critical application failure is in the hundreds of thousands of dollars. Furthermore, brand, reputation, and customer satisfaction are often negatively affected by downtime. The stakes are highest when a successful cyber-attack leads to negative publicity.²

SUPPORT

More than 430,000 customers choose Oracle and rely on Oracle Support to protect their technology investment. Support for cloud workloads, servers and desktops is an integral part of the Java SE Universal Subscription. Customers get Oracle Premier Support with the purchase of Java SE Universal Subscription, which includes 24/7 access to an experienced Oracle Java support team. Oracle Premier Support on Oracle Java SE products <https://www.oracle.com/support/premier/> is described further in the [Oracle Lifetime Support Policy www.oracle.com/support/lifetime-support/](https://www.oracle.com/support/lifetime-support/). These pages together with support roadmap information

www.oracle.com/java/technologies/java-se-support-roadmap.html, provide a comprehensive view of the extent of Oracle's unparalleled Java SE Universal Subscription support coverage.

In addition to Oracle Premier support for your Oracle Java SE binaries, Java SE Universal customers also receive triage support for their entire Java portfolio including third party libraries and runtimes. With direct access to the leading Java SE support resource you can:

- Log and resolve Java issues quickly and efficiently.
- Reduce time to resolution and minimize Java support costs.
- Maximize Java application uptime.

JAVA PATCHES AND SECURITY UPDATES

Java 8 updates release under the OTN License since April 2019. What does this mean for your organization? From extensive experience working with Java partners, we are aware that most large organizations run several versions of Java for a variety of reasons. Some organizations have constrained their applications to particular Java versions. By providing greater flexibility around the Java versions that are maintained, Java SE Universal Subscription is designed to accommodate these business needs.

Use Java SE Universal Subscription's term-based licensing and support to maintain your flexibility around the transition point between versions while at the same time making sure that your Java platform remains stable and up to date. Keeping out-of-date versions of Java on your system may present a security risk, so customers should always install updates to get the latest performance and security improvements.

Your organization may be subject to corporate or industry-wide obligations, specifically, keeping your software platforms supported and up to date with all available security patches installed. Java SE Universal Subscription makes it easy for you to meet these obligations.

- Remain on a fully updated Java release even after that version reaches end of public updates, thereby controlling your upgrade path.
- Streamline running different Java versions in a browser side-by-side, thereby managing compatibility for different applications.

ENTERPRISE CLASS PERFORMANCE FOR JAVA

- Subscribers, and OCI users, running JDK 8 server workloads have access to the Java SE Subscription Enterprise Performance Pack (Enterprise Performance Pack). The performance pack delivers dramatic improvements developed from JDK 9 to JDK 17 into your JDK 8 workloads. These include significant memory management and performance improvements like the ultra low-latency garbage collector ZGC from JDK 15, and the memory savings from JDK 9's compact strings. With this drop-in replacement for JDK 8 customers running workloads near memory or CPU capacity can see immediate benefits. Internal and partner testing shows improvements in both memory usage and performance of heavily loaded applications of up to 40%.
- Your subscription also includes GraalVM Enterprise, a high-performance runtime with polyglot capabilities for modern microservices. GraalVM Enterprise also offers substantial startup improvements and further memory savings with ahead-of-time compilation. More information on GraalVM EE can be found in its [datasheet](#).

Java SE Universal Subscription summary

- Cover all Java SE licensing needed for Enterprise Cloud, Server and Desktop deployments.
- Protect your Java SE investments by receiving performance, stability and security updates to a variety of versions.
- Manage your Java applications portfolio with maximum flexibility; update any Java versions you are running on your own time schedule.
- Remain up to date on the most current Java updates and security fixes.
- Achieve control and management of Java SE 8 Desktop use across the enterprise.
- Minimize your Java deployment, monitoring and maintenance costs.

Java SE Universal Subscription performance

- Enterprise Performance Pack brings JDK 17 Performance for JDK 8 server workloads. Drop-in replacement for JDK 8. Server-side Linux (Intel ARM), 64-bit, headless
- GraalVM Enterprise provides a high-performance runtime for modern microservices.
- Enterprise Performance Pack and GraalVM Enterprise are each available at no additional cost to Java SE Universal Subscription customers and Oracle Cloud Infrastructure (OCI) users

JAVA SE UNIVERSAL SUBSCRIPTION

The enterprise-wide, term-based Java SE Universal Subscription model includes cloud deployment, server, and desktop licensing and support.

- Simple per-Employee pricing starting at \$15/employee/month and lower depending on volume.
- Triage support for your entire Java portfolio including third party libraries and runtimes.
- Broad Internal Use License rights including Desktop, Cloud workload and on-premise
- Java SE 8 Commercial Features including the Java SE Subscription Enterprise Performance Pack
- Performance, stability, and security updates across current and older Oracle Java SE releases
- Entitlement to GraalVM Enterprise at no additional cost (see the [GraalVM EE data sheet](#) for details on this product)
- Oracle Premier Support via MOS (My Oracle Support)
- Term-based licensing

RESOURCES

- More information on the Java SE Universal Subscription solution can be found here: <https://www.oracle.com/java/java-se-subscription>.
- [Java SE Subscription Enterprise Performance Pack](https://blogs.oracle.com/java/post/introducing-the-java-se-subscription-enterprise-performance-pack) blog can be found here <https://blogs.oracle.com/java/post/introducing-the-java-se-subscription-enterprise-performance-pack>.

If you feel that your organization may benefit from a free 'Java Health Check', we have a team of Java specialists who can walk you through the steps to understand how Java is being used across your organization and how you can proactively manage it going forward. Call +1-800-633-0738

Common questions regarding managing Java SE across your enterprise

QUESTION	BUSINESS SCENARIO AND IMPACT	SOLUTION
How many versions of Java, in your organization, do not have the latest performance, stability, and security fixes available?	Different application areas within a business are often managed by separate teams, often lacking a central policy to manage Java deployments. While Oracle publicly provides performance, security and stability updates on the latest release of Java, production use of updates to prior versions requires a Java SE Universal Subscription.	Use the Java SE Universal Subscription robust monitoring tools for enterprise-wide Java visibility to audit and manage which versions, patches and security updates are used in your enterprise. In addition, gain access to all patches for the Java SE platform for all major releases.
Have you updated all Java applications to the latest release? Are you working with the latest early-access releases? What are your plans for moving to the next Long-Term Support release?	Transitioning between Java versions sometimes requires lengthy and costly QA cycles. You may not have sufficient in-house Java expertise or resources to upgrade all applications to the latest version in a timely fashion. Applications may not be business critical or may have been stable for many years. However, older versions could be putting your business at risk due to a lack of patching and support.	Java SE Universal Subscription includes all patches and global support for the Java SE platform for all major releases. Java SE Universal Subscription, through its provision of Java patches for older versions, enables you to remain on those versions for longer because the latest performance, stability and security improvements for the Java platform are applied.
What versions of Java are installed across your organization's desktops? How are Java updates managed?	You may have a limited view of the extent of Java usage across the organization. In many organizations, updates are sporadic and managed on an ad-hoc basis by individual teams, especially in desktop environments. This highlights a lack of control of a core component of the enterprise platform.	Java SE Universal Subscription provides access to tools and updates to help you manage your organization's desktops. It when applications require different versions with tooling to help manage "Deployment Rulesets" enabling support of challenging and sometimes conflicting requirements.
Can you report on your Java install base in the event of an industry compliance review (e.g. HIPAA)	If you store sensitive information, you may be subject to periodic PCI or HIPAA Audits where you need to show that the environment is supported and up to date with the latest security patches and updates.	The management elements of Java SE Universal Subscription enable you to maintain control of your various Java SE environments and report on the various versions in use throughout your organization.
How do you deal with any potential Java platform issues?	If an issue relating to the Java platform arises and you do not have access to support, you may have to resort to searching the Internet for	Java SE Universal Subscription gives you access to Oracle's expert global Java support team. You have an immediate resolution

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solutions. Solutions found online may not be accurate, current, or efficient. Researching and testing fixes costs time and money and could incur a large business cost in application down time.

route for Java issues, risk is reduced, and application uptime is optimized.

¹Wikibon 2019 Java survey data from 59 large enterprises, with > 30,000 employees and > 50 Java applications.
² IDC, Protect Applications by Integrating Security into DevOps, #US43015217

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