

Oracle Java SE Universal Subscription

A future-proof foundation for the intelligent enterprise

For over 30 years, Java has evolved as a secure, enterprise-grade platform powering innovation, and delivering business continuity and operational resilience. Oracle's stewardship continues to advance Java as the language of choice to address modern application development and the future of AI-powered business. With over 73 billion active JVMs in 2024, the majority of enterprises continue to rely on Java, and it is recognized as the #1 language for cloud-native development.¹

“Java is the #1 Language in Overall Enterprise Organizational Use”

Chris Rommel, EVP, VDC Research¹

Modernize, Safeguard & Accelerate Your Java Investment

Oracle Java SE Universal Subscription is the enterprise solution for organizations that prioritize stability, security, support, and innovation. As the main contributor and steward of Java SE, Oracle is the only company that can reliably and confidently deliver long-term support and updates, on a predictable schedule, for your entire enterprise Java environment across desktop, server, and cloud. It empowers organizations to transform legacy and develop modern applications with confidence, delivers industry-leading support, and unifies licensing at a predictable, enterprise-wide cost. With innovation accelerating through every Java release, including capabilities to accelerate and simplify the development of robust enterprise applications, AI-powered business solutions, and support cloud optimization and modernization, Oracle's stewardship ensures your organization stays ahead, safely and efficiently. At the same time, Oracle's ongoing investment in legacy Java versions ensures your existing mission critical Java systems maintain business continuity and resilience, while creating new opportunities for continuous optimization and evolution.

“Oracle's Java technology stewardship continues to lead the evolution of the Java programming language and platform, especially in relation to AI and security, and Java's consistent six-month release cadence is designed to further accelerate innovation.”

Arnal Dayaratna, Research Vice President, Software Development, IDC²

Unmatched Value Across the Java Lifecycle

Organizations choose the Java SE Universal Subscription to *ensure business continuity while supporting innovation*:

Accelerate enterprise modernization: innovate at speed, transform legacy workloads, and adopt cloud and AI-ready capabilities, with Premier Support from Oracle, tools to support legacy refactoring, reduced operational costs, and optimized cloud-native deployments, with the flexibility to modernize at the pace of your business.

Ensure business continuity: achieve operational resilience and team efficiency with centralized visibility and management of all Java deployments, advanced diagnostics and performance tools, comprehensive enablement resources, and by tapping into the world's largest Java developer community and Oracle Java expert talent.

Minimize risk and maintain control: simplify management, help support robust security and regulatory alignment with proactive updates, expert support, and strong backward compatibility, giving organizations the transparency and control required to meet policy requirements while minimizing risk exposure.

Fueling Workforce Excellence with Oracle and Java's Global Community

As the world's leading enterprise development platform, Java's vast global developer community, rich ecosystem, and widespread adoption ensure organizations benefit from a robust pipeline of skilled professionals and continuous access to upskilling resources—critical for meeting evolving talent needs and driving innovation. Oracle's role as the steward of Java further strengthens this ecosystem, underlining Java's continued relevance and longevity in modern business environments. Complementing these strengths, the Java SE Universal Subscription empowers organizations to retain and attract top talent by providing comprehensive support for both legacy and modern Java versions, accelerating onboarding for new developers, and streamlining upskilling and workforce development. With platform consistency, access to expert support, and compatibility across diverse infrastructures, the Subscription helps enterprises avoid workforce and skills shortages and offers development teams opportunities for cost savings while supporting ongoing product delivery and cloud adoption initiatives.

Accelerate Business Agility with Predictable Java Releases & Updates

The Oracle Java SE six-month release cycle and two year long-term-support cadence³ empowers businesses with agility by delivering incremental innovations and new features on a predictable schedule, enabling rapid adoption of technology improvements without disruptive, large-scale upgrades.⁴ Predictable quarterly patch updates further boost operational resilience and business continuity by ensuring security vulnerabilities are addressed promptly and systems remain stable, reducing the risk of downtime or security breaches. This regular cadence allows organizations to plan upgrades proactively, meeting compliance demands and future-proofing their Java environments so they can confidently adapt to changing technology trends and business requirements.

Java Feature Release Cadence Consistency

Oracle is constantly improving Java with a six-month Feature Release cadence for Oracle JDK, enabling faster delivery of innovation and making it easier for developers and enterprises to stay current with new functionality. This regular schedule brings greater predictability and consistency, allowing organizations to plan updates and upgrades more efficiently, while **long-term support (LTS) releases**—currently Java versions 8, 11, 17, 21, and 25—receive a minimum of eight years of support from Oracle, allowing Subscription customers to upgrade at the pace of their business. Oracle has also extended support for some releases—and may do so again in the future—for much longer periods based on customer demand, for example **Java 8 has support through at least 2030 (16 years)**. Java SE Universal Subscription customers gain access to certified performance, stability, and security updates for all supported Oracle JDK versions, flexible licensing, and continued updates for both the latest and supported older Oracle JDK versions, and even gives access to download all EOL Oracle JDK versions on MOS for debugging and troubleshooting, ensuring **robust support for diverse enterprise requirements**. Learn more: [Java SE Support Roadmap](#)⁵ and [Oracle Java SE Licensing FAQ](#)⁶

Access Oracle JDK Releases and CPUs:
[Java Downloads](#) | [Java Archives](#)

Ensuring Business Continuity with Critical Patch Updates (CPUs)

Keep your Java platform up to date and help improve your security posture with access to the latest Oracle JDK patches and updates on a predictable cadence. Your Java SE Universal Subscription provides quarterly [Critical Patch Updates \(CPUs\)](#)⁷ to protect your Java SE investments with tested and certified performance, stability, and security updates and to help you ensure you have the latest and most updated versions of Oracle Java across legacy and modern versions. The Subscription provides access to timely security patches for all supported Oracle Java versions—including those with extended support (such as Oracle JDK 8, Oracle JDK 11 and Oracle JDK 17).

Bundled Patch Releases

Bundled Patch Releases (BPRs) are Oracle JDK builds that address critical customer issues requiring immediate fixes, produced when a customer cannot wait for the next scheduled Critical Patch Update (CPU). BPRs provide critical fixes for Oracle Java SE Universal Subscription and Support customers only. [Learn More](#) (MOS login required)⁸.

Comprehensive Java Support: Maximize Uptime and Reliability

24x7x365 Oracle Premier Support⁹ across cloud workloads, servers and desktops is a primary value of the Java SE Universal Subscription, with always-on access to Java expert help globally, in 27 languages, for troubleshooting, guidance, and root cause analysis—*across any Java build*. A comprehensive view of the extent of Oracle's unparalleled Java SE Universal Subscription support coverage is further detailed in the [Oracle Lifetime Support Policy](#)¹⁰ and [Oracle Java SE Support Roadmap](#)⁵.

With direct access to the leading Java SE support resources, you can: *log and resolve Java issues quickly and efficiently, reduce time to resolution and minimize Java support costs, and maximize Java application uptime.*

Triage Support

Java SE Universal Subscription Customers get triage support of their entire Java portfolio, including third party libraries and runtimes. This means Oracle support will assist customers with general Java SE related questions and, where commercially reasonable, work with third party library and runtime vendors on any customer issues. As the stewards of the Java platform, Oracle is uniquely positioned to provide this offering. See [Java SE Triage Support Policy \(MOS login required\)](#) for details¹¹.

Premium Capabilities for Enterprise Java Workloads

[Java Management Service](#)

[Java SE Subscription Enterprise Performance Pack](#)

[Oracle Jipher](#)

[Oracle JDK Mission Control & Flight Recorder](#)

Java Management Service (JMS)¹² is an Oracle Cloud Infrastructure (OCI¹³) service providing a comprehensive solution for managing Java deployments across your entire enterprise, on-premises, in OCI, and on third-party clouds. JMS offers two key capabilities: [Fleet Management](#) (including [Advanced Features](#)) and [Java Download](#). Fleet Management provides insights into your Java usage and inventory. Java Download simplifies keeping your Java environments up-to-date by providing easy access to the latest Oracle JDK releases and updates across all versions.

- [Centralized Java Inventory](#): Unified visibility of your entire Java deployment. Automatically discovers and inventories Java installations across servers, desktops, and cloud environments.
- [Outdated Version Detection](#): Helps enhance security posture. Identifies and reports systems running obsolete or unsupported Java versions.
- [Advanced Usage Tracking](#): Enables optimization and cost control. Tracks which Java versions and applications are in use throughout the organization.
- [Vulnerability Assessment](#): Supports reduced risk of security incidents. Scans for libraries with known vulnerabilities, and reports CVEs associated with 3rd party libraries.
- [Crypto Event Analysis](#): Helps maintain application security and future compatibility. Identifies weak or deprecated cryptographic usage in your Java applications that will be unsupported in future Oracle JRE and JDK updates, allowing proactive remediation.
- [Java Migration Analysis](#): Simplifies modernization projects. Analyzes Java applications and recommends migration paths to newer Java versions.
- [Performance Analysis](#): Improves Java application efficiency. Offers insights and recommendations for enhancing Java workload performance.
- [Automated Reporting](#): Saves time and supports informed decision-making. Generates regular reports on Java usage, compliance, and security risks for stakeholders.

Oracle Java SE Subscription Enterprise Performance Pack (EPP)¹⁴ delivers JDK 17 JVM performance enhancements to Java SE 8 workloads, enabling organizations to achieve higher application efficiency, speed, and scalability on legacy applications. This *drop-in replacement* lets businesses quickly boost performance and reduce memory footprint with minimal disruption, offering enterprise-grade scalability for large and heavily loaded applications while minimizing downtime risks. Significant advancements from JDK 9 through 17 are made available to Java SE 8 environments, improving both memory usage and application performance, ensuring organizations can meet demanding SLAs and make the most of their existing hardware, while planning upgrades at the pace of business. Notable features include:

- **Out-of-the-box Compatibility for Existing Applications:** easy migration, fast performance gains, and reduced memory footprint with minimal disruption. EPP is a drop-in replacement for JDK 8, so applications can immediately benefit, seeing up to 40% improvements in performance and memory usage *without code changes*.
- **Z Garbage Collector (ZGC):** Reduces pause times for critical applications, maximizing uptime and responsiveness. Provides a scalable, ultra-low-latency garbage collection option to minimize pause times and improves performance for heavily loaded apps.
- **Compact Strings** and Memory Optimization: Lowers infrastructure costs by using memory more efficiently. Space-efficient string storage format and deduplication ensure workloads perform better on existing hardware.
- **Class Data Sharing (CDS):** Accelerates application startup and saves memory in large deployments by sharing common class data across JVMs.

Oracle Java Enterprise Performance Pack helps Oracle Fusion Applications improve application response times by 40% and decrease CPU utilization by 25%.

Oracle Jipher¹⁵ is a Java Cryptographic Service Provider that enables deployments of Java applications in FIPS 140-regulated environments. Jipher achieves this by leveraging the OpenSSL 3.x FIPS module. **Oracle Jipher** represents Oracle's ongoing commitment to delivering robust and standards-compliant security solutions. Oracle JDK supports high-assurance, standards-based *cryptographic security for Java applications*, helping organizations protect sensitive data and meet rigorous regulatory or industry requirements. Designed for seamless integration and optimal performance, Jipher enables enterprises to confidently address compliance needs, including FIPS, while strengthening their overall security posture.

Oracle JDK Mission Control¹⁶ and **Flight Recorder**¹⁷ are powerful tools for monitoring, profiling, and diagnosing Java applications in production with minimal performance overhead. Flight Recorder continuously collects low-level runtime and application events, enabling fast root cause analysis and performance tuning. Mission Control provides a **rich graphical interface** to visualize and analyze this data, helping organizations improve application reliability, quickly resolve issues, and optimize resource usage.

Oracle Java SE Universal Subscription

Whether your focus is risk, modernization, or operations, the Oracle Java SE Universal Subscription can help your organization innovate confidently while minimizing business risk.

Contact us to start maximizing the value of your Oracle Java investment

Citations and additional Oracle Java SE resources

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3. Donald Smith, VP of Product Management, Oracle, “The art of long-term support and what LTS means for the Java ecosystem,” September 8, 2021, blog, <https://blogs.oracle.com/javamagazine/post/java-long-term-support-lts>.
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8. “[Java SE] Java SE Release Types, Version Numbering, and Release Roadmap (Doc ID 1682574.1),” Oracle, <https://support.oracle.com/epmos/faces/DocContentDisplay?id=1682574.1>.
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