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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 Research[1]

Modernize, Safeguard & Accelerate Your Java Investment

Oracle Java SE Universal Subscription, which now includes Oracle Java Verified Portfolio (JVP)—a curated set of Oracle-supported libraries, frameworks, and tools—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 advancing 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 Java's post-quantum cryptography support and roadmap further extend this value by helping organizations prepare Java estates for future cryptographic requirements across supported Oracle JDK releases, while minimizing application disruption.[21]

> "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, IDC[2]

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, access to JVP's curated set of supported libraries and frameworks, tools to support legacy refactoring, reduced operational costs, and optimized cloud native deployments, with the flexibility to modernize at the pace of your business.

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Ensure business continuity: achieve operational resilience and team efficiency with centralized visibility and management of all Java deployments, advanced diagnostics, migration and performance analysis tools, comprehensive enablement resources, and by tapping into the world's largest Java developer community and Oracle Java expert talent. JVP further strengthens your environment by providing a curated suite of enterprise-grade, Oracle-supported libraries, frameworks, and resources that underpin the full Java stack—offering trusted, supported solutions designed for today's enterprise needs.

Minimize risk and maintain control: simplify management, help support robust security and regulatory alignment with proactive updates, expert support, strong backward compatibility, and trusted, verified components from JVP, giving organizations the transparency and control required to meet policy requirements while minimizing risk exposure and helping customers prepare for post-quantum cryptography adoption across their supported Java environments.

Fueling Workforce Excellence with Oracle and Java's Global Community

Top developers want to build the future—not get stuck fixing the past.

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, reinforcing 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, providing trusted access and support for Java stack development resources with JVP, 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, modernization, and cloud adoption initiatives.

With Oracle's Java SE Universal Subscription, your team gets more than just a platform—they get an edge in attracting, empowering, and retaining the best talent for future-ready innovation.

Accelerate Business Agility with Predictable Java Releases & Updates

The Oracle Java SE six-month release cycle and two year long-term-support cadence[3] 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 Critical Patch Updates and, when required, monthly Critical Security 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. Oracle's roadmap to bring post-quantum cryptography capabilities to supported Oracle JDK LTS releases adds another layer of long-term value, helping Subscription customers prepare existing Java applications for the post-quantum transition with less disruption. 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.

Access Oracle JDK Releases and Updates:
Java Downloads | Java Archives

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)** and with JVP Oracle is extending support for JavaFX on JDK 8 through March 2028. Java SE Universal Subscription customers gain access to certified

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performance, stability, and security updates for all supported Oracle JDK versions, flexible licensing, Oracle-backed updates and maintenance for Java Verified Portfolio components, and even the access to download all EOL Oracle JDK versions on My Oracle Support (MOS) for debugging and troubleshooting, ensuring **robust support for diverse enterprise requirements**. Learn more: Java SE Support Roadmap,[5] JVP Support Roadmap,[6] Oracle Java SE Licensing FAQ[7]

Ensuring Business Continuity with Critical Patch Updates (CPUs) and Critical Security Patch Updates (CSPUs)

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)[8] and, when required, monthly Critical Security Patch Updates (CSPUs)[20] to protect your Java SE investments with extensively tested and always TCK 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, Oracle JDK 17, and Oracle JDK 21). As Oracle delivers post-quantum cryptography capabilities across supported Oracle JDK LTS releases, the Subscription helps customers access the updates needed to prepare Java estates for stronger cryptographic protection over time.

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)[9].

Comprehensive Java Support: Maximize Uptime and Reliability

24x7x365 Oracle Premier Support[10] 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 for troubleshooting, guidance, and root cause analysis—*across any Java build*—plus plus Premier Support for Java Verified Portfolio components.
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,[11] Oracle Java SE Support Roadmap,[5] and Oracle JVP Support Roadmap.[22]

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 details[12].

Premium Capabilities for Enterprise Java Workloads

Java Management Service (JMS)	Java SE Subscription Enterprise Performance Pack (EPP)	Oracle Java Verified Portfolio (JVP)	Oracle JDK Mission Control & Flight Recorder

Java Management Service (JMS)[13] is an Oracle Cloud Infrastructure (OCI[14]) service providing a comprehensive solution for managing Java deployments across your entire enterprise, on-premises, in OCI, and on third-party clouds. JMS offers three key capabilities: Fleet Management (including Advanced Features), Java Download, and Analyze Applications. Fleet Management provides insights into your Java usage and inventory. Java Download simplifies and automates keeping your Java environments up to date by providing easy, scriptable access to the latest Oracle JDK releases and updates

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across all versions. Analyze Applications delivers instant, actionable insights into Java applications without needing to set up agents or fleets, providing migration and performance analysis to help you reduce costs and accelerate modernization with less effort.

- Fleet Automation & Lifecycle Management: Schedules and automates routine tasks like inventory, patching, and scanning, increasing operational consistency and freeing up IT resources.
- Automated Java Download & Update: Centralizes secure, scriptable deployment and updating of Oracle Java runtimes, helping systems remain current and reducing manual effort.
- Centralized Java Inventory: Unified visibility of your entire Java deployment. Automatically discovers and inventories Oracle and non-Oracle Java installations across servers, desktops, and cloud.
- 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.
- Kubernetes and Container Observability: Provides visibility and diagnostics for Java workloads running in Kubernetes or OKE environments, ensuring containerized apps remain secure and performant.
- 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)[15] 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 improve 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.

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

Oracle Java Verified Portfolio (JVP)[16] is an Oracle-curated collection of trusted, enterprise-grade Java libraries, frameworks, tools, and services that extend the value of the Java SE Universal Subscription. JVP addresses the challenges organizations face managing diverse Java-related components—each with their own roadmap, support timelines and SLAs—by providing a centralized, thoroughly validated, and Oracle-supported portfolio. This ensures customers benefit from enterprise support, streamlined access, clear roadmaps, dependable updates, and reduced supply chain risk. For businesses and developers, JVP accelerates innovation, simplifies compliance and lifecycle management, and offers the confidence of working with Oracle-backed solutions—enabling them to build, modernize, and scale Java applications with greater agility and peace of mind.

JVP currently includes Oracle Support and access for Oracle Jipher, Helidon, JavaFX, and the Java Platform Extension for Visual Studio Code:

- Helidon, an open source, cloud native Java framework designed for building and running fast, lightweight, and highly scalable microservices using Java Virtual Threads. Designed, led and used by Oracle, Helidon offers developers simplicity, productivity, and choice of programming style. It provides built-in observability and integrates well with the enterprise and cloud native ecosystems. Helidon AI extends Helidon, enabling Java developers to build high performance AI applications in Java. It includes integration with LangChain4j, Helidon MCP and facilitates building AI Agents as microservices. The Helidon release roadmap is aligned to the Oracle JDK, making it the only microservice framework that delivers immediate support for the latest JDK release.
- JavaFX, a modern framework for building feature-rich, visually engaging desktop applications in Java. With its inclusion in JVP, developers now have access to long-term, commercially supported releases, expert assistance, and seamless integration with the latest Java platform releases. The inclusion of JavaFX in JVP ensures ongoing innovation, stability, and easy access to enterprise-grade tools—empowering developers to confidently create immersive user interfaces and advanced visualizations, including those needed for AI-powered applications.
- Java Platform Extension for Visual Studio Code, offers developers a seamless environment for editing, compiling, debugging, and managing Java projects directly within VS Code. Built on Oracle's robust Java language server, the extension supports the latest Java features, integrates with popular build tools, and streamlines workflows for both new and experienced Java programmers. With inclusion in JVP, the extension comes with Oracle-backed support, ensuring reliability and enterprise-grade troubleshooting for customers.
- Oracle Jipher[17] 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 Jipher's inclusion in Java Verified Portfolio helps customers standardize on a trusted, Oracle-supported cryptographic provider with clearer governance, roadmap visibility, and enterprise support.

Oracle JDK Mission Control[18] **and Flight Recorder**[19] 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.

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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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