Oracle Java SE Advanced
Optimizing Management, Minimizing Risk

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ENTERPRISE PERFORMANCE MANAGEMENT SYSTEM

- IDC estimates that unplanned application downtime costs the Fortune 1000 from $1.25 billion to $2.5 billion every year.[1]
- Most large organizations have over 50 distinct versions of Java installed.
- According to IDC, the average cost of a critical application failure per hour can range from $500,000 to $1 million.[1]
- Industry research shows that over 93% of enterprises are still running Java 6 or older.
- Take advantage of Oracle's expertise to continually improve and secure Java. Java 7 and earlier releases have reached end-of-public-updates, but you can obtain updates for these older releases through Oracle Java SE Advanced.

VALUE PROPOSITION SUMMARY

Remain up to date on the most current Java updates and security fixes.

Continued access to update releases for older versions of Java.

Achieve control and management of Java use across the enterprise.

Minimize Java deployment, monitoring and maintenance costs.

Software platform maintenance and patching is one of the greatest challenges of managing business critical applications. Oracle Java SE Advanced allows you to cost-effectively manage Java installations across your enterprise.

Java SE Advanced also consistently manages updates, actively monitors Java platforms and provides direct access to a specialized Java support team.

Java SE Advanced is comprised of the following: Advanced Monitoring & Management of Java in the Enterprise

You can manage and control Java deployments through the Advanced Management Console (AMC). You can also be proactive in preempting and resolving application issues ahead of time with Java Flight Recorder (JFR) and Java Mission Control (JMC). These enterprise management capabilities will only continue to grow in subsequent releases of the Java platform.

How will Java SE Advanced enable my organization to step-up Java management?

An enterprise-wide level review will often reveal business critical applications that are extensively dependent on Java. The average organization has at least 50 distinct versions of the Java platform installed across desktops and servers. Java SE Advanced enables you to effectively monitor, manage and update these installations.

Coordinated management of your Java environments gives a single view of Java use across the enterprise. It allows you to see all versions of Java that the applications are dependent on and the most recent patch being utilized by the applications. It also provides a mechanism for consistently delivering Java updates.

To complement the overall management of Java environments, Java SE Advanced also optimizes Java performance during development as well as monitors Java performance and behavior during production.

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[1] IDC, DevOps and the Cost of Downtime: Fortune 1000 Best Practice Metrics Quantified, #253155, December 2014.

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- Oracle Java 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.

- Usage Tracking in AMC helps build a realistic application inventory by cataloguing which Java versions are used for which applications.

- The Deployment Rule Set capabilities enable you to control Java execution in browsers across the enterprise including control of security prompts, fixes, and Java SE updates. For example, 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.

- MSI Customizations: System Administrators can use the Java Installer Customization tool to repackage MSIs, controlling the way that Java is installed on managed systems.

- Java Flight Recorder and Java Mission Control provide in production diagnostics with minimal performance overhead, which enables better uptime.

- *Please note that keeping out-of-date versions of Java on your system may present a security risk, and customers should always install updates to get the latest performance and security improvements.*

Support

Support is an integral part of Java SE Advanced. You will have 24/7 access to an experienced Oracle Java support team.

How does this benefit my organization?

Every hour of application downtime comes at a high cost. IDC estimates that the average cost of a critical application failure per hour is $500,000 to $1 million[2]. If there is an issue relating to the Java platform, companies often search online for potential remedies. Not only does this waste time and resources, the end result may also not be the optimal solution.

- With direct access to the leading support resource, you can rest easy knowing that plans are in place should you encounter any issues with your Java platform. Direct route to log and resolve Java issues.

- Reduce time to resolution and minimize Java support costs.

- Maximize Java application uptime.

Java Patches & Security Updates

Java 7 and Java 6 reached the end of public updates in 2015 and 2013, respectively. Currently, only the latest Java 8 update releases are publicly available.

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. It may be because there are specific development groups who have focused their release on a particular Java version or resource constraints are delaying updates to the latest Java version. By providing greater flexibility around the Java versions that are maintained, Java SE Advanced is designed to accommodate these business needs.

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[2] IDC, DevOps and the Cost of Downtime: Fortune 1000 Best Practice Metrics Quantified, #253155, December 2014.

Use Java SE Advanced to maintain your flexibility around the transition point between versions while at the same time making sure that your Java platform is as stable and up to date as possible. As noted above, it is important to remember that keeping out-of-date versions of Java on your system may present a security risk, and customers should always install updates to get the latest performance and security improvements.

In addition, your organization may be subject to corporate or industry-wide obligations in regards to keeping your software platforms supported and up to date with all available security patches installed. Java SE Advanced makes it easy for you to achieve all of this.

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

Resources

More information on the Java SE Advanced solution can be found here:
http://www.oracle.com/us/technologies/java/standard-edition/advanced-suite/overview/index.html

If you feel that your organization may benefit from a free 'Java Health Check', we have a specialist Java team that 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 +1-800-6330738

WHAT IS YOUR STRATEGY FOR MANAGING JAVA ACROSS YOUR ENTERPRISE?

Question	Business Scenario and Impact	Solution
Do you know how many versions of Java you are running that do not have the latest performance, stability, and security fixes available?	• Different application areas within a business are often managed by separate teams and there may not be a central policy to manage Java deployments. • While Oracle publicly provides performance, security and stability updates on the *latest* major release of Java (currently Java 8), updates to Java 7 and prior versions require Java SE Support or Java SE Advanced.	• The ability to audit and manage which versions of Java are being used in your enterprise. • Java patches and security updates for older major releases. Java SE Advanced includes all patches for the Java SE platform for all major releases.
Have you updated all of your Java applications to Java 8? Have you tried Java 9 early access and do you have plans to upgrade to 9 when it is released?	• Transitioning between Java versions often requires lengthy and costly QA cycles. • You may not have sufficient in-house Java expertise or resources to upgrades all applications to the latest version. • Applications may not be core business critical applications or may have been stable for many years.	• Java SE Advanced, through its provision of Java patches for older versions, enables you to remain on those versions for longer. • You can rest easy knowing that precautions have been taken to apply the latest security and stability improvements for the Java platform. • You take control of the migration plan between Java versions.
What versions of Java are installed across your organization? 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. • This highlights a lack of control of a core component of the enterprise platform.	• Java Advanced Management Console (AMC) gives you an up to date view into Java platform installations and update levels. • You take control of Java instances and effectively manage the installation of Java updates and patches.
Can you report on your Java install base in the event of an audit?	• If you store credit card information, you may be subject to periodic PCI 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 Advanced enable you to maintain control of your various Java 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 solutions. • Solutions found online may not be accurate, current, or efficient. • Researching and applying fixes costs time and money and could incur a large business cost for application down time.	• Support gives you access to an expert Java support team within Oracle. • You have an immediate resolution route for Java issues. • Application uptime is optimized.

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Oracle is committed to developing practices and products that help protect the environment