VERITAS i³™ for J2EE
VERITAS Indepth™ for the J2EE Platform

DELIVERING A NEW PERSPECTIVE ON J2EE PERFORMANCE MANAGEMENT

VERITAS’ J2EE application performance management solutions provide comprehensive performance management for server-side Java applications. They address the need for optimizing application performance during the development, testing, and production phases of the application life cycle. The solutions make communicating J2EE performance problems easy and performance data can be shared by all application stakeholders.

The critical role of the mid-tier Java application server has resulted in a requirement for specialized data collection and analysis capabilities to ensure scalability. VERITAS Indepth for the J2EE Platform provides a method for detecting and correcting performance degradation of the business-logic tier before your business is impacted.

HIGHLIGHTS
- Collect and correlate WebSphere and WebLogic data
- Low overhead while gathering data
- Enhanced JMX metric analysis
- Understand response time contributions from Java Servlets, JSP, EJBs, JMS, JNDI, JDBC, XML, & more
- Browser-based GUI and operational dashboard facilitates easy information exchange
- Archive and review performance data
- Correlate activity across web, multiple JVMs, and DB servers
- Isolate problematic SQL statements and continue drilldown into database
- Browser-based Operational Dashboard with configurable user interface
- Insight into called methods
- SmarTune™ technology for automatic drilldown and analysis
- Adaptive Instrumentation to maximize visibility and minimize overhead

BENEFITS
- Designed to work in QA under load and in production environments
- Empower new users to quickly isolate the origin of J2EE performance degradation and receive expert advice on corrective action
- Visually manage the health of your JVM
- Correlate application performance across JVM and application server boundaries
- Evaluate the SQL text generated by your J2EE application and continue the performance analysis in the database using VERITAS Indepth™ for Oracle, DB2 UDB, or SQL Server
- Share instrumentation definitions across multiple JVMs
- Adapt to changes in applications without re-instrumentation or re-cycling the application
- Automatically ensure complete visibility into your application without the risk of over instrumentation
ENSURING INFRASTRUCTURE PERFORMANCE
Today’s internet-enabled applications demand peak performance, especially under burst loads when business consequences are greatest. Multi-tiered architectures centered on J2EE-compliant application servers provide the functionality needed to meet these demands. VERITAS Indepth for the J2EE Platform provides specialized features to ensure that the IT infrastructure withstands business demands and supports growth.

CONFIGURABLE DASHBOARD
Communicating problems efficiently will help speed the time from problem detection to corrections. VERITAS Indepth for the J2EE platform provides the ability to customize the views in the operational dashboard. Users will be able to define the metrics they want to see displayed (e.g. Response Time, Work Time, and JVM Status).

SMARTUNE—INSTANTLY DETECT PERFORMANCE BOTTLENECKS AND RECEIVE EXPERT ADVICE ON HOW TO CORRECT THEM
The SmarTune feature combines an in-depth knowledge of your J2EE application with expert system technology to instantly isolate the root cause of performance problems and recommend actionable advice on how to correct them. Companies with limited practical expertise in deploying J2EE applications into production can immediately benefit from the problem-solving SmarTune intelligence. With a single mouse click, QA and production environments are now empowered to quickly identify and resolve performance problems, an area which was once the sole domain of engineering and development.

ADAPTIVE INSTRUMENTATION – DYNAMICALY ADJUSTS AND LEARNS
This feature ensures all the application “hot spots” are identified and instrumented automatically without costly application server restarts. Development, QA, and production teams no longer have to spend days to weeks trying to isolate the problem areas of their J2EE applications. Adaptive Instrumentation adjusts and learns as changes are made to the application. This ensures maximum visibility with the lowest possible overhead.

INSTRUMENTATION EXPLORER
A new feature, the Instrumentation Explorer will provide users with visibility into the different methods running in the JVM, their current status (e.g. instrumented or not) and associated metrics. The initial view of the Instrumentation Explorer will include the different component types (e.g. HTTP, XML, EJB).

PROVIDING TOTAL APPLICATION PERFORMANCE MANAGEMENT FOR J2EE-COMPLIANT APPLICATIONS
VERITAS Indepth for the J2EE Platform employs a multi-tier, fully distributable architecture to provide the scalability to meet the variable needs of Java applications and deployments. The performance collector runs on the J2EE application server mid-tier using low overhead, high precision technology. The
VERITAS InDepth for the J2EE Platform user interface uses a thin client, HTML-based approach to allow IT staff to use all VERITAS InDepth for the J2EE Platform features from a standard browser, either locally or from a remote location.

VERITAS InDepth for the J2EE Platform data collectors use application instrumentation and Java Virtual Machine (JVM) sampling. Instrumentation provides an application-centric view of performance correlated with both user page requests and back-end relational database requests. Sampling provides a way to measure the relative health of the JVM. Both are essential for comprehensive performance management.

VERITAS InDepth for the J2EE Platform’s application discovery component works with a byte code instrumenter to provide numerous informative performance metrics during execution. Instrumentation provides accurate summary level performance monitoring for HTTP requests (servlets and JSPs) and EJB invocations.

VERITAS InDepth for the J2EE Platform extracts CPU resource usage data from the underlying operating system to provide a correlated view of CPU usage with Java application components and specific end-user requests. Multiple levels of “method invocations” among Java components are correlated to provide visibility into quantitative relationships among application components.

VERITAS InDepth for the J2EE Platform correlates application components with database activity to isolate scalability bottlenecks between the mid-tier and the database tier. Using correlation technology, VERITAS InDepth for the J2EE Platform leverages the unique vantage point of the mid-tier to associate user requests with database activity.

VERITAS InDepth for the J2EE Platform can tell IT staff how many trips to the database each user request requires and how long each request takes to complete. VERITAS InDepth for the J2EE Platform even identifies and isolates the longest-running SQL statements. When integrated with VERITAS InDepth™ for Oracle or VERITAS InDepth™ for IBM DB2 Universal Database, or VERITAS InDepth™ for SQL Server VERITAS InDepth for the J2EE Platform further empowers IT staff to follow application performance problems across the J2EE tier into the database.

Isolate slowest performing SQL statements automatically.

PART OF THE COMPREHENSIVE VERITAS i3 SOLUTION
VERITAS i3 for J2EE is a superset of VERITAS InDepth for J2EE. It is an ideal solution for operation and production groups that need comprehensive alerting and reporting. Part of the VERITAS i3 solution family, it leverages a modular, integrated architecture to provide the ability to measure performance end-to-end.

J2EE application components are commonly sighted as the source of performance bottlenecks. However, often slowdowns on the J2EE tier are a symptom of problems in the database. VERITAS i3 for J2EE enables IT organization to isolate slowdowns on the J2EE tier and follow the problem in context into the database for resolution.

Visit our website (www.VERITAS.com) for more detailed product information, to review a product demonstration, download white papers on J2EE performance management, or download a trial version of our software.
TECHNICAL SPECIFICATIONS

Application Servers
- BEA WebLogic Server 5.1, 6.0, 6.1, 7.0, 8, 8.1
- IBM WebSphere 3.5.x, 4.x, 5.x
- Oracle 9iAS 9.0.2, 9.0.3
- JBoss 3
- Tomcat 3.x, 4.x, 5
- Macromedia JRun 3.x, 4
- Sun iPlanet
- Sun JES Release 1, Release 2
- ATG Dynamo
- Resin 2.x
- JEUS 4

Operating Systems
- Sun Solaris 2.6, 7, 8, 9
- IBM AIX 4.3.3, 5.1, 5.2
- HP-UX 11.0, 11i
- Microsoft Windows NT SP6a, 2000 SP3, Server 2003, XP Professional
- Linux Red Hat 7.2, 8
- Red Hat Linux 8, 9 for Intel
- Red Hat Linux Advanced Server 2.1, 3 for Intel
- Red Hat Linux Advanced Server for S/390
- SuSE Linux 8.0, 9.1 for Intel