

AppInternals xpert™

Deep Application Component Monitoring and Analytics

OPNET's AppInternals Xpert delves into the complex software frameworks and operating systems of modern servers to extract vast amounts of performance and forensic data to support all aspects of Application Performance Management (APM) from the server perspective. AppInternals Xpert can provide analysis for any type of application, but excels, in particular, in Java and .NET environments. It continuously monitors thousands of system and application metrics within each server, across all application tiers, and automatically detects and ranks performance and behavior anomalies. AppInternals Xpert uses patented technology to automatically provide deep instrumentation in application code with very low overhead. Its patented correlation technology automatically reveals relationships among metrics, highlighting the corresponding causal connections among components, resources, and behavior to perform root cause analysis. AppInternals Xpert also utilizes advanced, low-overhead, continuous tracing techniques to provide deep visibility into application code as it executes. It can assemble a complete picture of a transaction's path across tiers for near real-time and historical analysis.

Benefits

- Accelerate troubleshooting by rapidly pinpointing code-level root causes of application performance problems in multi-tier applications.
- Detect application performance problems earlier.
- Ensure the performance of business transactions.
- Ensure successful application deployments.
- Eliminate the "finger-pointing" among IT teams concerning the source of application performance problems.

Use AppInternals Xpert to:

- Monitor applications at the component level to proactively detect performance problems.
- Troubleshoot website errors and overall slowness.
- Troubleshoot intermittent performance problems.
- Troubleshoot packaged applications such as SharePoint, PeopleSoft, Documentum, by bringing evidence of performance issues to vendors and implementers.
- Continuously monitor applications to detect memory leaks.
- Analyze applications prior to deployment, identifying slow Java or .NET methods and other resource bottlenecks that can impact performance in production.
- Establish a cohesive view of the application that spans multiple silos with cross-domain triage.

Compare AppInternals Xpert to Other Solutions

- Monitors and analyzes performance metrics across application tiers, including the application infrastructure, middleware, portals, database, OS/VM, web services, Java, .NET, and more.
- Supports custom applications and popular commercial offerings including SharePoint, PeopleSoft, Documentum, and more.
- Achieves deep visibility of the entire application with very low overhead, leveraging exclusive analytics to automatically limit instrumentation points.

"We've been at this for months and couldn't figure out why our server was dying. You figured it out in 5 minutes."

Infrastructure VP
Electronic Media Company

"We used to spend the majority of the analysis phase determining ownership and isolating the problem to a specific area. With [AppInternals Xpert], we reduced the turnaround time by 50% while reducing head-count utilization by 25%."

Application Manager
Fortune 50 Manufacturing Company

"[AppInternals Xpert] has proven itself to be a valuable tool for J2EE application performance troubleshooting at [organization name]. We previously used several software packages to identify patterns and problem areas, which can now be performed with OPNET's integrated solution, [AppInternals Xpert]. The level of detail shown by [AppInternals Xpert] has given us valuable insight into our J2EE and .NET applications, which enabled us to resolve significant performance bottlenecks."

Principal Systems Engineer
Federal Defense Contractor

Key Features

- **'Always on' cross-tier transaction tracing:** follows user transactions across all application tiers, with code-level detail.
- **Transaction trace warehouse:** records and indexes all multi-tier transaction traces in a highly scalable server, making it easy to find and analyze any transaction.
- **Memory analysis and real-time memory leak detection:** low-overhead, "always on" monitoring identifies code-level source of memory leaks, which are typically very difficult to detect and diagnose.
- **Patented deviation tracking:** automatically learns abnormal vs. normal behavior for thousands of performance indicators.
- **Advanced correlation:** monitors hundreds of thousands of performance metrics from across application tiers, and finds relationships among metrics to support troubleshooting.
- **Forensic 'snapshot':** automatically captures and archives in-depth troubleshooting data for key events, based on pre-defined policies.
- **Real-time dashboards and alerts:** monitors key performance indicators (KPIs) with drill-down to specific resources. Dynamic thresholds automatically adjust limits based on historical performance, reducing false alarms and the need for configuration.
- **Broad support for business applications and middleware components:** SharePoint, SAP, SQL, Oracle, WebLogic, WebSphere, VMware, Apache, and more.



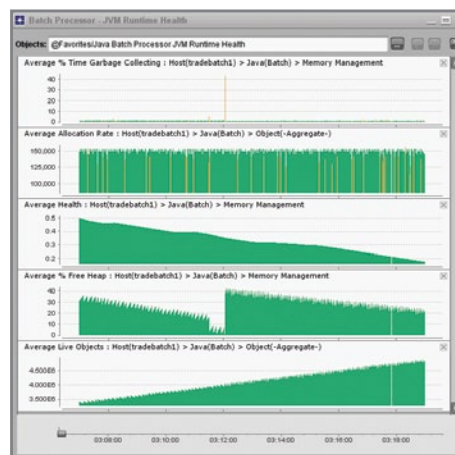
Correlate performance metrics across application tiers to automatically identify related metrics and diagnose root cause of performance problems.

Integration with Other OPNET APM Xpert™ Solutions

- Drill-down from AppResponse Xpert's end-user monitoring to understand problematic back-end performance when an end-user transaction is slow.
- Import end-user experience and network-based KPIs from AppResponse Xpert for correlation and analysis.
- Export server data into OPNET's industry-leading transaction analysis solution, AppTransaction Xpert.
- Visualize time-aligned transaction traces in AppTransaction Xpert, captured from both the server and the network for a combined multi-tier view of an end-to-end transaction.

Ask Us About...

- How our analytics rapidly sift through thousands of potential root causes to target relevant indicators, for faster, more accurate troubleshooting.
- How our approach to data retrieval extracts targeted information from a vast performance management database.
- How AppInternals Xpert is able to maximize visibility while minimizing overhead.



Identify the code-level source of memory leaks with low-overhead, "always-on" monitoring.

Related Solutions

AppResponse Xpert™

End-User Experience, Network Monitoring and Analytics

AppResponse Xpert passively monitors and analyzes end-user experience for all types of enterprise applications. Onboard analytics provide application recognition, user identification, root-cause analysis, and powerful business-level summarization. AppResponse Xpert simultaneously provides deep monitoring of the network and high-volume forensic storage. Optional modules include the Module for Database Performance Monitoring, the Unified Communications Monitoring Module, and NetFlow.

AppTransaction Xpert™

Deep Transaction Performance Analysis and Prediction

AppTransaction Xpert provides detailed analysis of multi-tier application transactions. Using code-level and network-level forensic data, it builds a detailed transaction model for root-cause analysis and predictive studies. AppTransaction Xpert Packet Trace Warehouse offers centralized control of enterprise-wide desktop agents that collect packet traces and environmental conditions (CPU, memory, I/O, etc.) from user desktops. It provides a federated repository of forensic data to accelerate performance troubleshooting and application mapping.

About OPNET Technologies

OPNET Technologies, Inc. is a leading provider of application and network performance management solutions. OPNET's solutions deliver broad visibility and monitoring across infrastructure domains as well as deep data collection and analytics to enable powerful root cause diagnosis. These solutions have been operationally proven in thousands of customer environments worldwide.

