

AppTransaction xpert™

Analyze and Troubleshoot Application Performance from a Network Perspective

Enterprises today rely on complex, distributed applications more than ever to conduct business. Poor application performance results in a loss of business productivity, directly impacting the bottom line. Yet, performance problems with production applications are common, and new application deployments are often delayed, or even fail, due to performance issues.

OPNET's AppTransaction Xpert provides a powerful, intuitive analysis environment to effectively manage application performance throughout the lifecycle. AppTransaction Xpert embeds expert knowledge about network protocols and application behavior as seen from a network perspective to provide a detailed understanding of the end-to-end performance of networked applications.

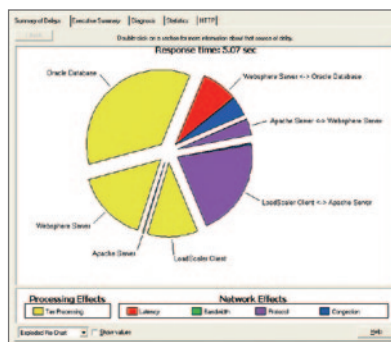
Diagnose Performance Problems

AppTransaction Xpert's transaction-level decodes and automated diagnostic reports enable you to quickly identify and resolve performance bottlenecks. Summary reports clearly show the factors that contribute to end-to-end response time, including transmission and propagation delay, network congestion, protocol overhead, and processing at each application tier. AppTransaction Xpert automatically analyzes the application at each tier to assess potential bottlenecks and provides recommendations for fine-tuning application and network parameters to improve performance. For example, determine if application "chattiness" or TCP windowing between a specific client and server are causing performance issues. Decode captured application information to identify the code-level application statements that cause unacceptable processing delays.

Predict Response Time with a Behavioral Application Model

AppTransaction Xpert provides an intuitive "virtual" environment for validating proposed changes to the application design or network parameters. Quickly evaluate the impact on end-to-end response times by changing network parameters, such as bandwidth and latency, or by modifying the application design. Effectively plan for

- Multiple users, servers, and applications
- Application deployment to new locations
- New applications
- Data center migration
- Server consolidation and virtualization
- WAN optimization



View the sources of delay in an intuitive pie chart.

Benefits

- Expedite troubleshooting production application performance
- Certify applications for deployment over the WAN
- Ensure network readiness for application deployment
- Avoid inefficient and costly infrastructure investments
- Improve staff productivity and reduce "finger-pointing"
- Validate post-deployment changes

Features

- Advanced analysis of network packet traces and key statistics
- Intuitive, powerful, graphical diagrams for visualizing application behavior
- Automated diagnostic reports pinpoint performance bottlenecks and summarize sources of delay
- Hundreds of protocol and transaction level decodes
- Quick and accurate predictions of application response times in virtual environments encompassing multiple clients, servers, and applications
- Powerful "whiteboard" environment for architecting and validating modifications to complex application-layer logic and behavior
- Out-of-the-box and customizable reports for key stakeholders including application developers, network engineers, and management
- Coordinated multi-tier captures and trace synchronization
- Continuous capture capability for analysis of intermittent problems
- Unlimited, free, lightweight and secure AppTransaction Xpert Agents
- End-user-driven captures with AppForensics Xpert

Restore Visibility in WAN Optimized Environments

AppTransaction Xpert delivers one-of-a-kind analysis capabilities for organizations deploying WAN optimization devices from vendors including Riverbed Technology and Cisco Systems. Restore network-tier visibility by isolating the end-to-end application transaction from other activity that is introduced by the WAN optimization devices to effectively troubleshoot slow response time. Effectively plan for deploying WAN optimization devices by identifying sites and applications that would likely realize the greatest benefits.

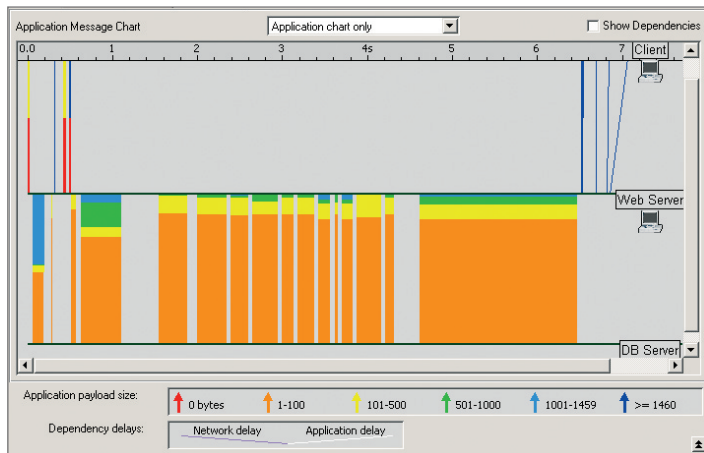


Manage SOA Application Performance

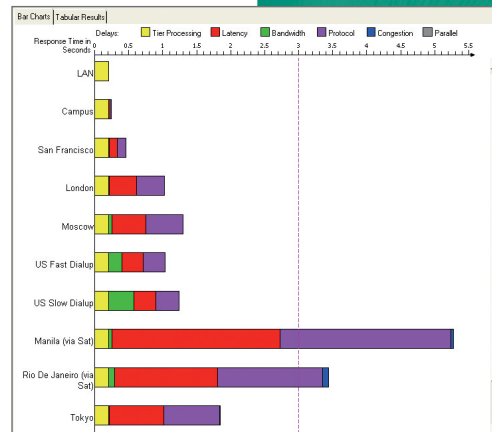
Service-oriented architecture (SOA) transforms IT applications into composite applications, composed of many services often developed, tested and deployed independently by separate development teams. AppTransaction Xpert traces transactions end-to-end across web services, as well as other application servers and back-end tiers, to pinpoint the correct component responsible for end-to-end delay. Troubleshoot application delays due to unnecessary, inefficient, or mis-coded calls to internal and remote Web Services (e.g. SOAP, XML-RPC, REST).

Integrate With OPNET Solutions for End-to-End Application Performance Management

OPNET's AppResponse Xpert™ provides complete visibility of all transactions and users across the enterprise for 24x7 end user monitoring and alerting. Bridge seamlessly from AppResponse Xpert into AppTransaction Xpert to uncover the root-cause of application performance problems. Drill down further into the application processing tier by leveraging AppInternals Xpert's transaction tracing, and server-based metric collection and analysis. AppInternals Xpert provides visibility into performance-critical Java and .NET application code through a detailed analysis of execution times at the method level.



Visualize application transactions to understand application messages and dependencies.



Evaluate the impact on response times of changes to key network parameters.

“Prior to our work with OPNET, IT engineers spent a significant amount of time analyzing trace data and performance metrics, frequently arriving at different and conflicting conclusions on the cause of performance problems...We want to spend less time fire-fighting and spend more time focusing on SunTrust's strategic business goals. OPNET is a key enabler in this transformation.”

Manager, Network Planning and Engineering
SunTrust Banks, Inc.