OPNET’s ACE Analyst
Analytics for Networked Applications

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 ACE Analyst provides a powerful, intuitive analysis environment to effectively manage application performance throughout the lifecycle. ACE Analyst 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
ACE Analyst’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. ACE Analyst 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
ACE Analyst 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
- WAN optimization

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
Solution Overview

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

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 ACE packet Capture Agents
• End-user-driven captures with ACE Enterprise Management Server

Visualize application transactions to understand application messages and dependencies.

LTI DataComm
23020 Eaglewood Ct. #100
Sterling, VA 20166
www.ltidata.com
800-677-5050

©2010 OPNET Technologies, Inc. All rights reserved. OPNET’s ACE Analyst and the OPNET logo are trademarks or registered trademarks of OPNET Technologies. All other trademarks used or mentioned herein belong to their respective owners.
Copyright LTI DataComm, 2010. All rights reserved.