

Measuring the Impact of Cisco WAAS on Network and Application Performance with NetQoS

IT professionals rely on the accuracy of their monitoring and management tools to ensure applications and networks perform effectively. Unfortunately, WAN Optimization devices severely limit most network and application monitoring and reporting tools. By design, these devices apply optimization techniques on application packets that result in significant problems for network or application monitoring platforms, including:

- » Loss of visibility into application and server response time, data transfer time, and protocol distribution metrics
- » Inability to accurately quantify the benefits of WAN optimization
- » Difficulty in troubleshooting and identifying actual bottlenecks in the network
- » Inability to leverage the existing investment in network and application performance monitoring systems

The First Comprehensive End-to-end Response Time Monitoring Software for WAN Optimization

NetQoS and Cisco have collaborated to create the industry's first comprehensive end-to-end response time measurement software for WAN-Optimized environments. Users of Cisco WAAS devices can use the NetQoS® Performance Center suite of products to overcome performance monitoring limitations. With the NetQoS® Performance Center, IT organizations can:

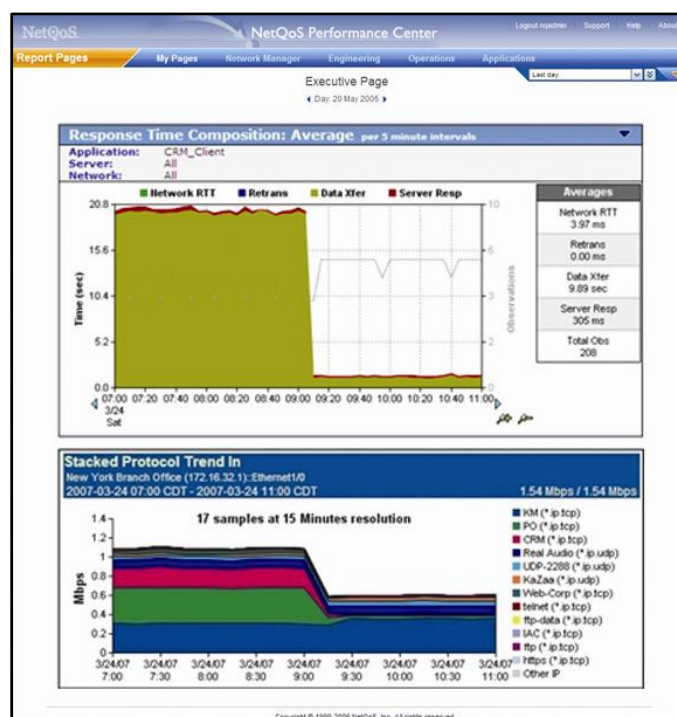
- » Accurately quantify end-to-end response time, WAN bandwidth utilization and protocol distribution, and LAN/WAN data throughput—before and after Cisco WAAS implementation
- » Rapidly isolate network and server bottlenecks in a WAN-Optimized environment
- » Ensure confident investment decision-making with accurate end-to-end visibility
- » Protect and leverage existing investments in network and application performance monitoring tools while effectively deploying Cisco WAAS

A Closer Look at the NetQoS® Performance Center

The NetQoS Performance Center product suite provides global visibility, via a single Web-based management console, into the key metrics necessary to quantify network and application performance across an organization: end-to-end performance (NetQoS SuperAgent®), network traffic analysis (NetQoS ReporterAnalyzer™), and device performance (NetQoS NetVoyant®). The NetQoS Performance Center provides a top-down view of all applications—data, video, and voice—for the entire network infrastructure. IT professionals can also drill down into this data with customizable, role-specific views in order to:

- » Measure end-user response times
- » Identify performance bottlenecks faster across users, networks, and applications
- » Understand how infrastructure changes affect network and application performance
- » Identify the applications and users consuming bandwidth, and when
- » Make more informed infrastructure investments
- » Quantify ROI from upgrades or other changes accurately

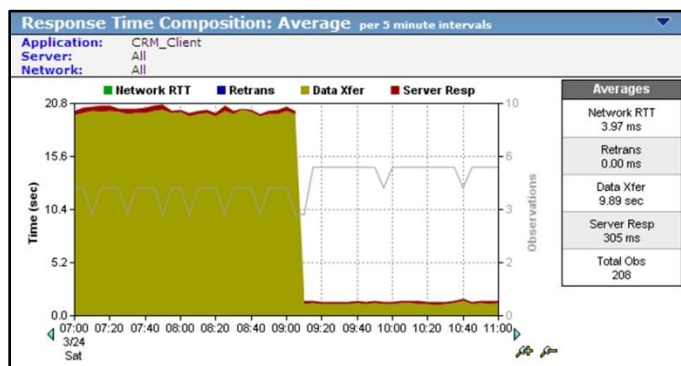
With historical reporting and analysis of pre- and post-optimized network traffic, the NetQoS Performance Center provides normal performance baselines for all applications at different times of the day and during different business cycles. The NetQoS Performance Center suite offers two specialized product modules to measure, analyze, and report on WAN Optimization improvements:



NetQoS SuperAgent® End-to-End Performance Monitoring Module

NetQoS SuperAgent tracks and measures end-user response time without the use of desktop or server agents. It provides real-time reports, including end-to-end application response time and data transfer time, across the WAN, helping IT professionals monitor service-level agreements and quantify the end-user experience. NetQoS SuperAgent enables IT organizations to:

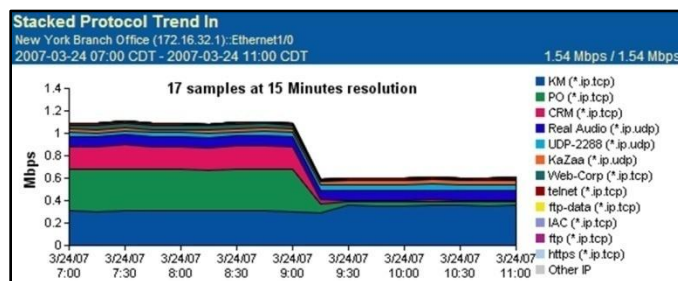
- » Quantify and communicate the before-and-after value of Cisco WAAS during the procurement phase
- » Monitor application performance levels during the deployment phase
- » Identify future sites where WAAS deployment will provide the greatest value



NetQoS SuperAgent reports response times before and after Cisco WAAS deployment. This report from the product shows a 93% reduction in response time to the client for a CRM application after WAAS was enabled.

NetQoS ReporterAnalyzer™ Network traffic analysis Module

NetQoS ReporterAnalyzer uses Cisco IOS® NetFlow data to provide insight into how application traffic is impacting network performance. ReporterAnalyzer delivers reports on bandwidth utilization, protocol distribution, and top talkers, which can be used to quantify and communicate the aggregate bandwidth savings for a remote site before and after WAAS is deployed and monitor traffic distribution across clients and servers. Like NetQoS SuperAgent, ReporterAnalyzer offers baselining, trending, alerting, historical reporting, and incident management.

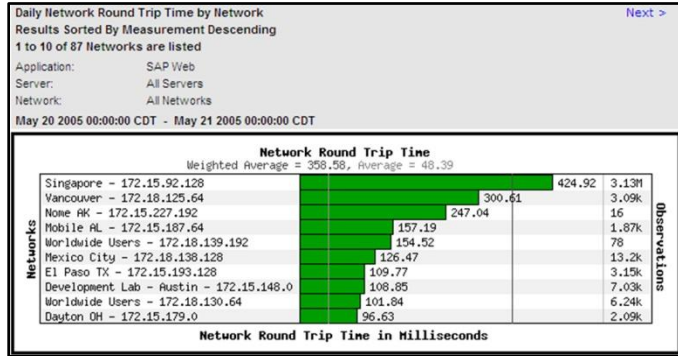


NetQoS ReporterAnalyzer reports WAN bandwidth consumption before and after Cisco WAAS deployment. This report from the product shows a significant reduction in WAN utilization after deploying Cisco WAAS.

Benefits of the NetQoS and Cisco WAAS Integration

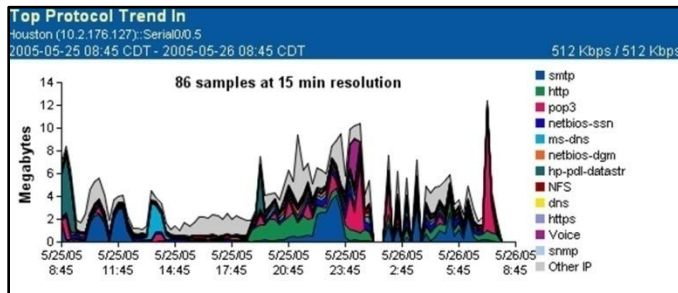
The NetQoS Performance Center restores visibility into network and application performance, overcoming the packet-level effects of WAN Optimization. In addition, the integration between NetQoS products and Cisco WAAS offers other important benefits, enabling IT professionals to:

- 1. Quickly and correctly identify acute network bottlenecks where WAN optimization is needed most urgently.



NetQoS SuperAgent helps IT organizations identify network locations that would most benefit from a Cisco WAAS deployment.

- 2. Quickly and correctly identify the applications that need WAN optimization.

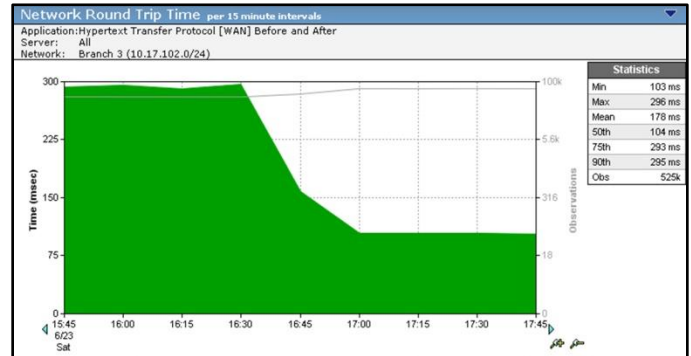


NetQoS ReporterAnalyzer helps IT organizations determine the best candidates for optimization.

- 3. Effectively and correctly quantify optimization benefits.



NetQoS SuperAgent enables IT organizations to measure improvements after Cisco WAAS deployment.



NetQoS SuperAgent enables IT organizations to measure network round trip time after Cisco WAAS deployment.

Measure WAN Optimization Improvements with NetQoS

NetQoS has provided hundreds of enterprises, service providers, and government agencies the products they need to manage their networks for application performance. From financial services to energy to technology, the world's largest organizations, including half of the Fortune 100, depend on NetQoS products and services. The NetQoS Performance Center is the only product suite capable of scaling to the world's largest networks to deliver the three classes of metrics necessary to quantify network performance—end-to-end response time, network traffic analysis, and device performance.

Request an evaluation of the NetQoS
Cisco WAAS performance monitoring
solution today at www.netqos.com.

Contact NetQoS

Contact a NetQoS representative today to schedule a demonstration. Find out how you can begin accurately measuring and reporting on the WAN performance improvements of Cisco WAAS.

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