

STEELCENTRAL NETPROFILER

CENTRALIZED NETWORK PERFORMANCE ANALYSIS AND REPORTING

BUSINESS CHALLENGE

Today, network operations engineers are expected to be application-fluent. They need a deeper understanding of applications and what end users are actually experiencing. So when applications are slow or fail, network managers must go beyond simply proving that the network is not at fault and start looking at the problem through the lens of the application.

When users complain about application problems you should have no trouble identifying what they are experiencing and giving business owners a good picture of the actual application response time and how that relates to the network. More and more varied people within companies are interested in application performance. The time has come to convey network performance details to them in a way that they'll understand.

THE RIVERBED SOLUTION

Riverbed® SteelCentral™ NetProfiler solution is a centralized reporting and analysis console that you can use to quickly view network and application performance and troubleshoot issues before your end users ever know there's a problem.

SteelCentral NetProfiler combines network flow data with packet-based performance metrics from information collected by Riverbed SteelCentral™ NetShark, Riverbed SteelCentral™ Flow Gateway, and Riverbed SteelHead™ solutions to provide proactive monitoring, analysis, and reporting. It can also do automated discovery and dependency mapping, and capacity and WAN optimization planning and analysis.

Expanded Riverbed Optimization System (RiOS) support for SteelCentral NetProfiler now provides you with deep application visibility and insights on network usage that enable you to effectively monitor performance and ensure service levels for applications.

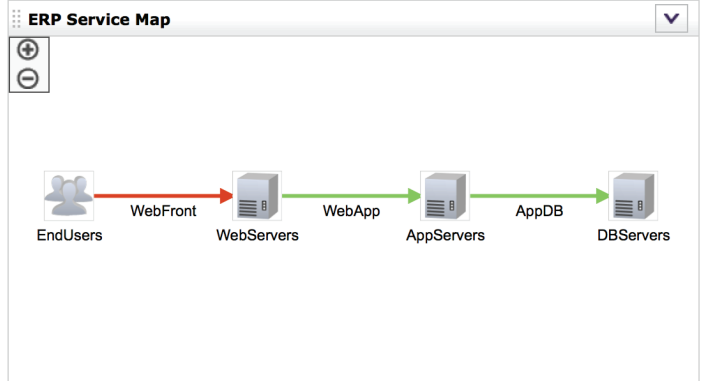
SteelCentral NetProfiler Virtual Edition is a virtualized version of the SteelCentral NetProfiler appliance that runs on VMware vSphere to provide added deployment flexibility.

Trace: Dashboard

Dashboard: ERP-Application

ERP Service Health by Location

Service Tree	Overall	ERP
Austin	!	!
Columbus	!	!
Hartford	!	!
LosAngeles	!	!
Connectivity	●	●
Efficiency	●	●
User Experience	!	!
Philadelphia	!	!
Phoenix	!	!
Seattle	!	!



ERP - Web Servers Summary View - Previous Minute

Watched Host	Bits/s	Packets/s	Connections/s	# Peers	Avg Net RTT (ms)	Avg Resp. Time (ms)	Avg Server Delay (ms)
WebServer-33	588,016	288	0.67	29	121	3,609	3,488
WebServer-31	555,681	244	0.63	29	136	138	6
WebServer-32	1,212,767	916	1	35	83	89	6
WebServer-34	1,237,631	978	1	35	78	83	6
WebServer-30	1,439,702	1,314	2	33	56	63	5

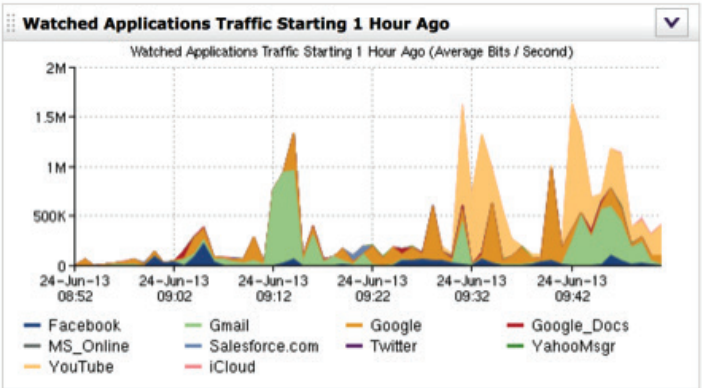
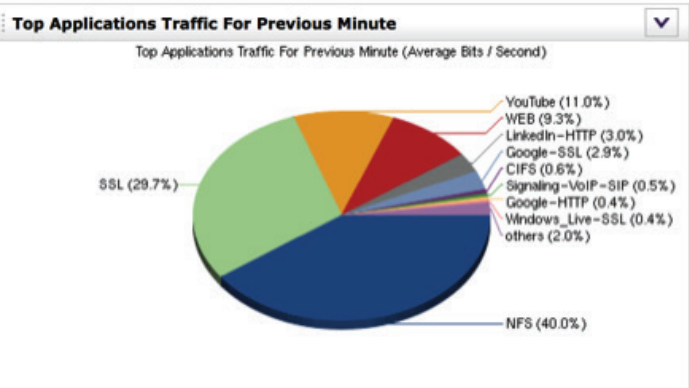
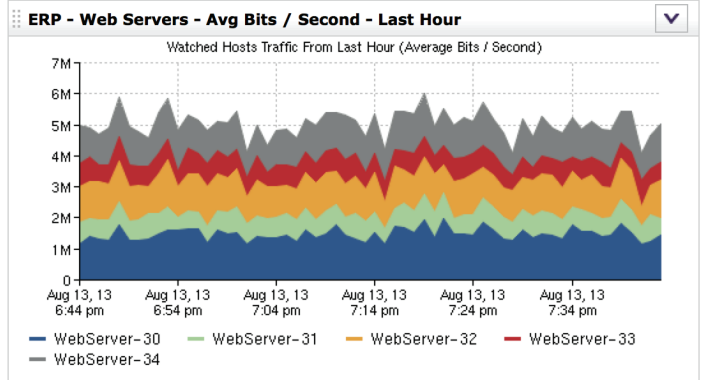
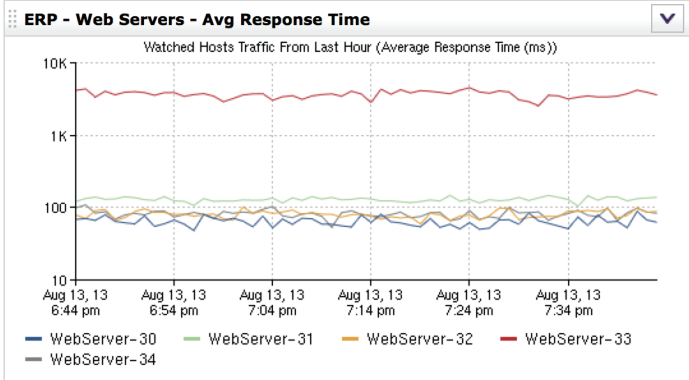


Figure 1: SteelCentral NetProfiler dashboards include everything you need to know from the highest level to the most granular detail with one-click drilldown for root cause and problem isolation and deep application visibility.

KEY BENEFITS

» IMPROVE USER EXPERIENCE AND PRODUCTIVITY

» ENHANCE IT COLLABORATION AND OPERATIONAL EFFICIENCY

» SPEED PROBLEM IDENTIFICATION AND RESOLUTION

» INCREASE APPLICATION VISIBILITY AND IMPROVE APP PERFORMANCE

KEY FEATURES

Application recognition and monitoring

- Recognize and monitor application types, including well-known, custom-developed, virtualized, peer-to-peer, VoIP, and web-based applications
- Deep packet inspection of application traffic from SteelCentral NetShark and SteelHead for easy viewing and analysis in the SteelCentral NetProfiler dashboard to help you quickly and accurately distinguish business-critical from recreational applications that are running across your network including the optimized WAN

Automated analytics

- Uses baseline statistics and proactive monitoring to trigger an alert once a deviation is detected, without prior knowledge of specific applications, path dependencies, and number of users or even router changes

Discovery and dependency mapping

- Includes a discovery wizard that creates application dashboards to automate the process of mapping transactions to their underlying infrastructure so that application definitions and interdependencies are accurate – including discovering through F5, Riverbed® SteelApp™ Traffic Manager and other application delivery controllers (ADCs)
- Creates service maps for accelerating troubleshooting across complex application ecosystems, and planning for data center consolidation or cloud, disaster recovery, and virtualization initiatives

Service monitoring

- Monitor all network and infrastructure components involved in delivering an application service such as users, web servers, load balancers, application servers, authentication and DNS servers, databases, and the links between them
- Advanced analytics automatically detects and alerts on meaningful changes in performance, providing proactive notification of brewing issues
- Service dashboards provide a quick view into the end-to-end health of a business service that is visually shown by red-yellow-green health status indicators
- Guided drill down reveals details of the most critical applications and essential data for fast troubleshooting

Server virtualization and VMware NSX SDN

- NSX-aware IPFIX format enables SteelCentral products to provide detailed information about what NSX virtual overlay networks are running on the physical network, what applications are involved, and which hosts and virtual tunnel endpoints are generating the traffic

Integration with Riverbed SteelCentral AppResponse

- AppResponse with NetShark module can send data to SteelCentral NetProfiler for network-wide monitoring and reporting so even more problems can be identified and fixed.

Integration with SteelCentral Dashboards

- Provides SteelCentral Dashboards with Top Interface, Top Talker and related data from SteelCentral NetProfiler with contextual drill down for additional detail

Integration with Riverbed SteelHead for packet capture and application visibility

- You can use your SteelHead investment to send both flow and packet data to SteelCentral NetProfiler for deeper application-aware network performance management and enhanced visibility
- Provides robust analysis of optimized WAN environments and quality of service (QoS) settings, enabling you to easily plan for WAN optimization, assess the impact of the deployment, and quantify benefits
- New with RiOS 8.5 you can now get detailed application visibility and insights on network usage for better performance monitoring and ensured service levels for applications

PRODUCT MODELS

SteelCentral NetProfiler appliance supports from 150,000 – 4.4 million flows per minute.

SteelCentral NetProfiler Appliances								
Model	CAP-2260 Series			CAP-4260			CAP-4260 Expansion	
Configurations	L	M	H	CAP-4260-UI	CAP-4260-DB	CAP-4260-AN	CAP-4260-EX	CAP-4260-DP
Flow Capacity	150,000	300,000	600,000	NA	NA	800,000	400,000	NA

SteelCentral NetProfiler Virtual Edition supports from 15,000 to 600,000 flows per minute.

SteelCentral NetProfiler Virtual Edition Series							
Model	CAP-VE-100-F1	CAP-VE-100-F2	CAP-VE-100-F3	CAP-VE-100-F4	CAP-VE-100-F5	CAP-VE-100-F6	CAP-VE-100-F7
Flow Capacity	15,000	30,000	60,000	90,000	150,000	300,000	600,000
Hypervisor	VMware ESXi 5.0, 5.1, 5.5						

SteelCentral NetProfiler Virtual Edition runs on VMware vSphere to provide you with added deployment flexibility for virtualized data centers and software-defined networks.

SteelCentral NetExpress appliance is an all-in-one solution that combines the best of flow and packet capture plus monitoring into a single appliance. It is best suited for smaller organizations or a small subsection of a larger network. The SteelCentral NetExpress 460 appliance accommodates flow rates ranging from 15,000 to 120,000 flows per minute.

SteelCentral NetExpress 460 Series					
Model	U	L	M	H	VH
Flow Capacity	15,000	30,000	60,000	90,000	120,000

The SteelCentral NetExpress 460 Virtual Edition is a virtualized version of SteelCentral Express 460 that runs on VMware vSphere and can be deployed by companies that have fully embraced virtualization or within software-defined data centers.

SteelCentral NetExpress 460 Virtual Edition					
Models	CAX-VE-460-F1	CAX-VE-460-F2	CAX-VE-460-F3	CAX-VE-460-F4	CAX-VE-460-F5
Flow Capacity	15,000	30,000	60,000	90,000	120,000
Supervisor	VMware ESXi 5.0, 5.1, 5.5				

**For complete configuration details and product models, please visit www.riverbed.com to download the SteelCentral specification sheet.*

ABOUT RIVERBED

Riverbed Technology, Inc., at more than \$1 billion in annual revenue, is the leader in Application Performance Infrastructure, delivering the most complete platform for location-independent computing. Location-independent computing turns location and distance into a competitive advantage by allowing IT to have the flexibility to host applications and data in the most optimal locations while ensuring applications perform as expected, data is always available when needed, and performance issues are detected and fixed before end users notice. Riverbed's 25,000+ customers include 97% of the *Fortune* 100 and 96% of the *Forbes* Global 100. Learn more at www.riverbed.com.

GARTNER MAGIC QUADRANT RECOGNITION

We're the ONLY leader in both the Gartner Magic Quadrant for Application Performance Monitoring (APM) and Network Performance Monitoring and Diagnostics (NPM).*

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