

NetProfiler, NetShark, Flow Gateway & Packet Analyzer

December 2015













Unified Performance Visibility

Single Performance Management Interface

APPLICATION FOCUS

Real-Time, Continuous, High-Definition Data Capture and Analysis

NETWORK FOCUS

ALL Networks
ALL Applications



Switch





Router



Packets



SH/SF



Devices



Web Server

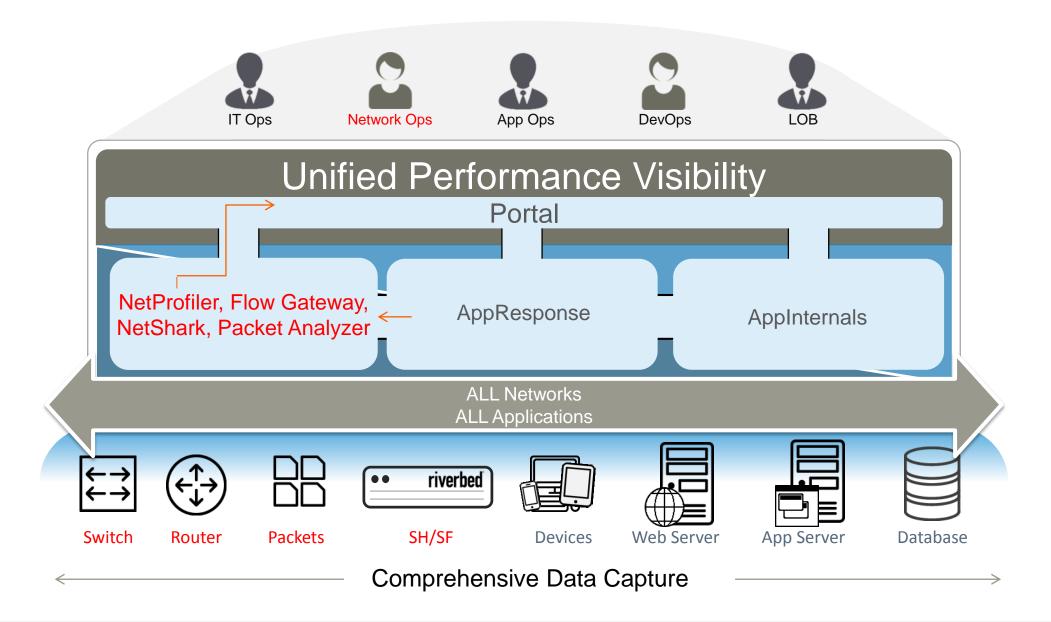


App Server



Database

Comprehensive Data Capture



SteelCentral: Your Command Center for Application Performance

SteelCentral NPM

Application-Aware Network Performance Management



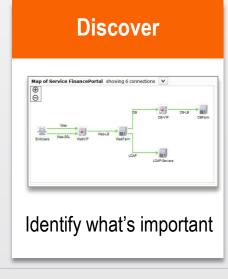


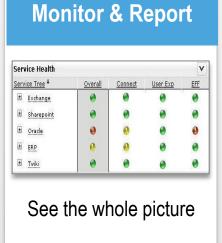


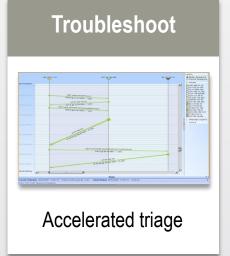


See The Total Performance Picture

- Avoid business-impacting performance issues
- Minimize downtime
- Improve IT collaboration



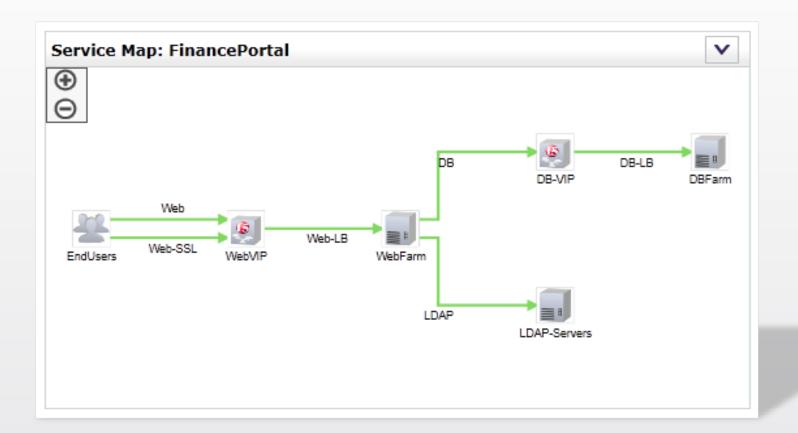




Dependency Mapping

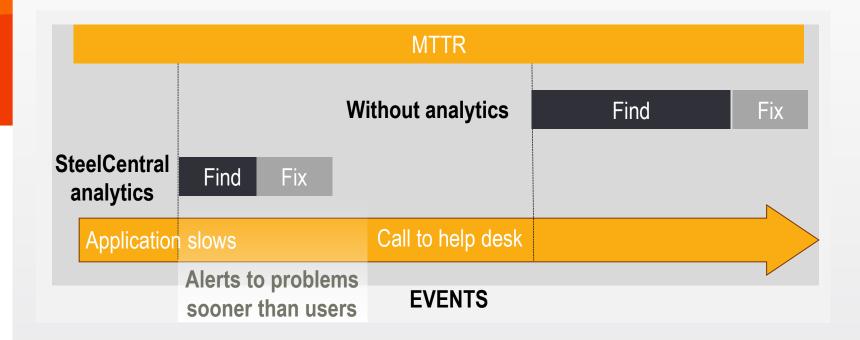
See the Whole Picture

- Understand all components involved in application delivery
- Discover across all tiers of a multi-tier app, including load balancers
- Assist in data center transformations, security and compliance monitoring



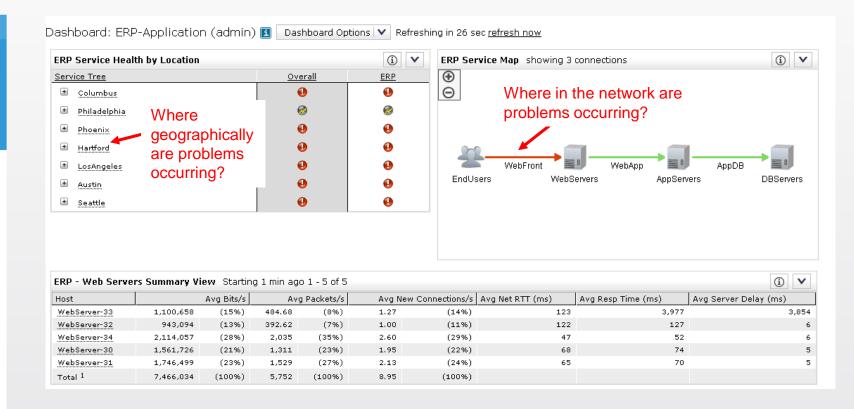
Proactively Identify Problems

- Automate analysis of performance changes
- Proactively identify issues before users notice

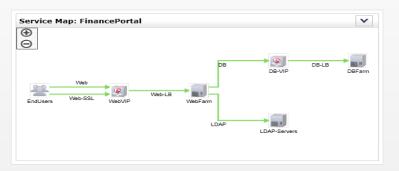


Identify What's Important

- Quickly understand service elements
- Graphically monitor endto-end health of critical business apps from the network viewpoint
- Speed problem diagnosis



Putting it altogether for a competitive advantage

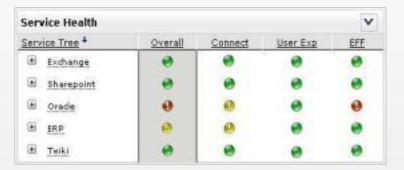


Discover: Quickly identify all components involved in delivering an application service to end users

Wizard automates dashboard creation



Analyze: Automates analysis of performance changes to provide early warning of problems

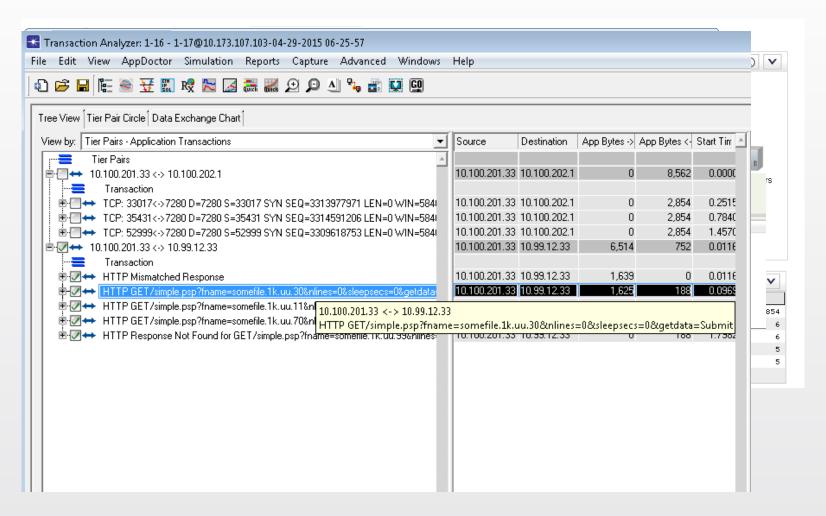


Dashboards: At-a-glance view into end-to-end application health



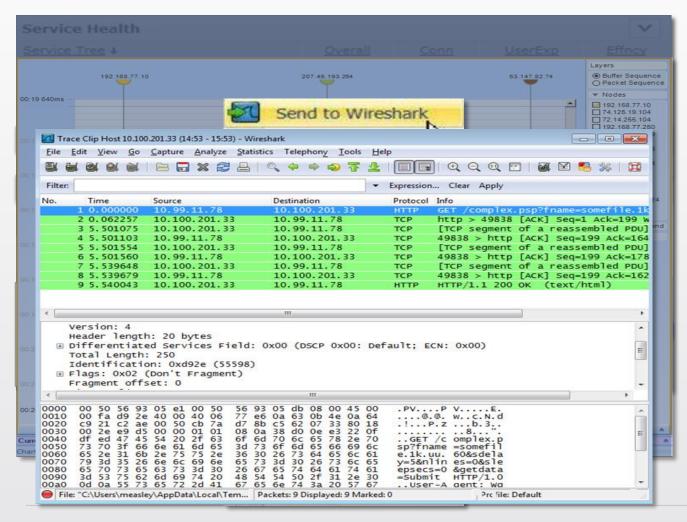
Find the Problem Faster

- Business intelligence, not data
- Contextual evidence streamlines diagnosis
- Consistent views, metrics & workflows



Streamlined Troubleshooting

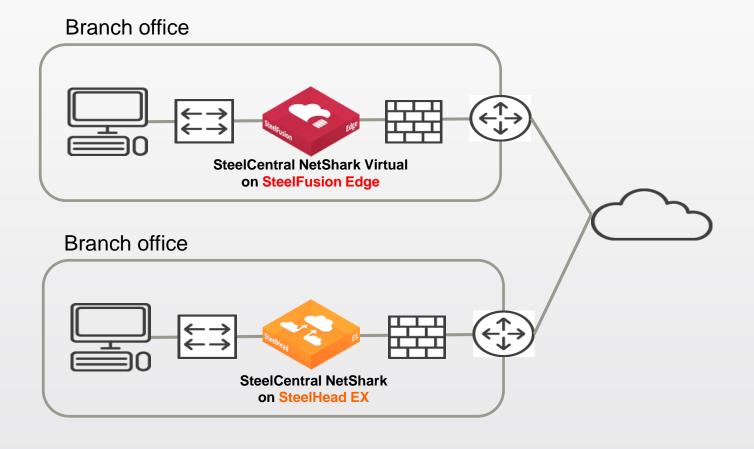
Seamless drill-down to details



- Service-level dashboard shows issue with ERP
- Incident is localized to Web FrontEnd, across all locations
- Fast, flexible drill down to incident report
- Automated analytics
- Seamlessly drill-down into packets
- Packet-level / transaction analysis in SteelCentral Packet Analyzer
- Integrated with Wireshark

Integration with SteelHead / SteelFusion

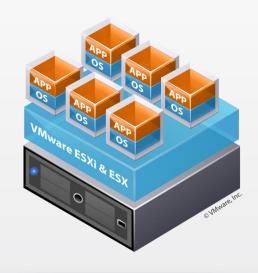
Accelerate Branch Troubleshooting



- Works with SteelHead EX or SteelFusion Edge
 - Real-time app intelligence
 - WAN opt analysis & reporting
 - Guarantee QoS / monitor path selection
 - Response time analysis
- Cost-effectively monitor & troubleshoot branch issues
 - No dedicated monitoring appliances
 - See site-to-site & cloud/SaaS traffic that bypasses datacenter
 - Continuously capture traffic for realtime and historical troubleshooting

Virtualization Monitoring

Only vendor to support all forms of virtualization monitoring





- VMware ESXi
- Microsoft Hyper-V



Desktop/App Virtualization

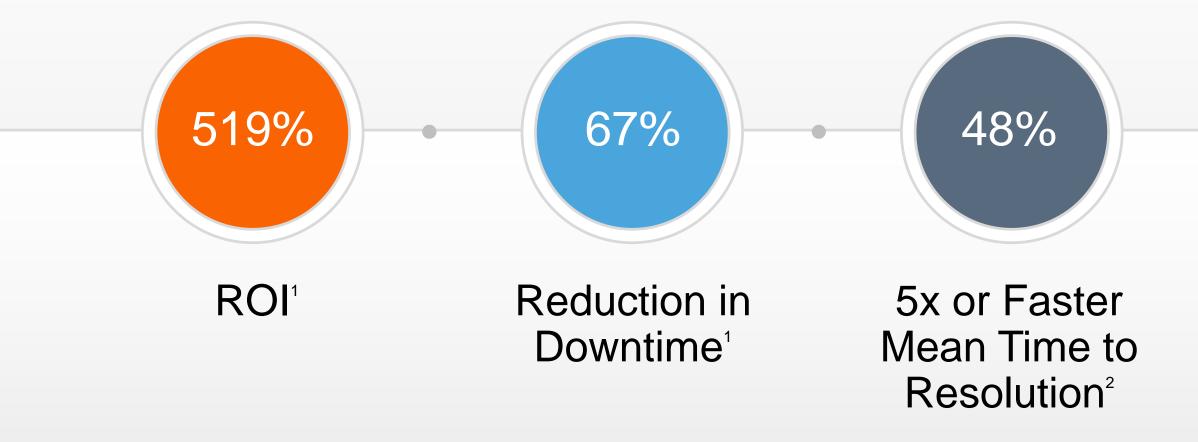
- VMware View
- Citrix XenApp



Network Virtualization

VMware NSX

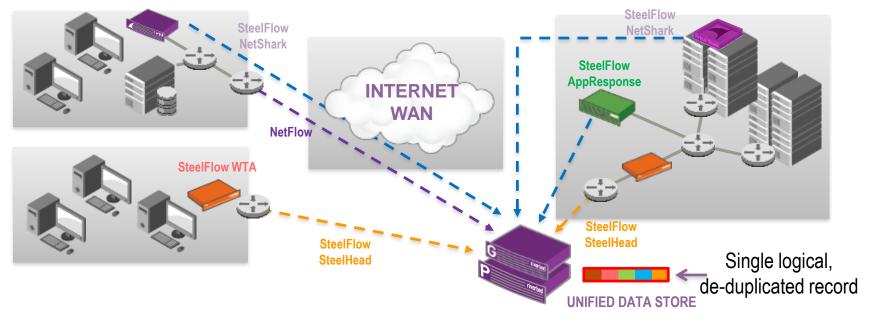
SteelCentral customers achieve tremendous benefit



- 1. IDC, Realizing Business Value and ROI with Application-Aware Network Performance Management, July 2012
- 2. http://www.techvalidate.com/tvid/571-6CE-4F3



Comprehensive, Unified Visibility



Unified Data Store combines the same flow across multiple interfaces in single logical, de-duplicated record on the NetProfiler

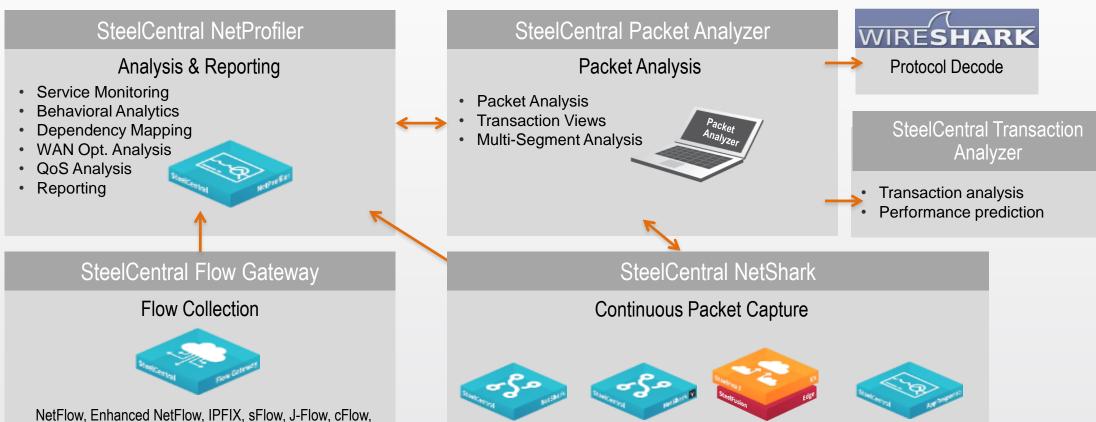
- NetFlow cost-effective end-to-end visibility (NetFlow, IPFIX, Palo Alto, ASA NSEL, Citrix AppFlow, sFlow, etc.)
- SteelFlow Net (SteelHead) SteelHeads add application mapping, bandwidth reduction, optimized traffic network delay & retransmission metrics
- MNMP (NetShark) NetShark adds application mapping, network delay, server delay, retransmission, and VoIP metrics, access to packets
- SteelFlow Net (AppResponse) AppResponse adds network delay, server delay, retransmission, and VoIP metrics, access to packets

Accurate End-User-Experience for Optimized Web & SaaS Applications

 SteelFlow WTA - Remote SteelHeads provide AppResponse web transaction analytics for optimized web & SaaS applications; available in AppResponse web interface

SteelCentral NPM – How Everything Works Together

User Interface



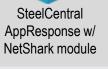
SteelCentral

NetShark

SteelCentral

NetShark-V

Telemetry



SteelCentral NetShark

on SteelHead EX or

SteelFusion Edge

Packeteer FDR, Citrix AppFlow, Palo Alto Networks, Cisco

NBAR/NBAR2. MediaNet and ASA NSEL

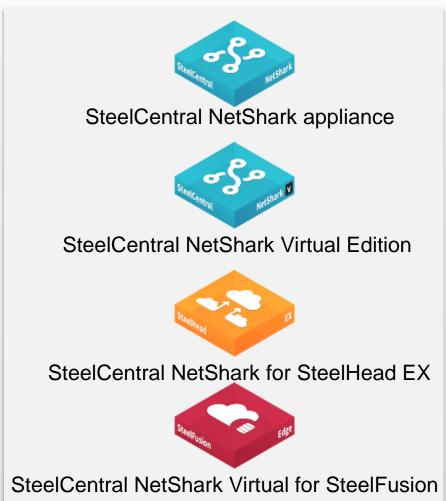
SteelCentral NetShark

SteelCentral NetShark

Continuous High-Speed Packet Capture

- Continuous packet capture and storage for retrospective analysis of network, security and app issues
- Smart packet indexing for high query performance and low network overhead
- Mix 1GbE & 10GbE interfaces on same appliance
- Unique multiple concurrent capture jobs
- DPI distinguish between business & recreational apps (1300+ apps)
- Available as appliance or virtual software
 - Integrated into SteelHead and SteelFusion

Types of NetShark



NetShark Appliances

High-speed packet capture & storage appliances

| Description | Form Factor | Total Packet Storage |
|----------------------------|----------------|-------------------------|
| NetShark 2170 | 1U | 8 TB |
| NetShark 4170 | 2U | 32 TB |
| NetShark 6170* | 2U | 576TB |
| NetShark Storage Unit 48TB | 2U | 48 TB |
| NetShark Storage Unit 72TB | 2U | 72 TB |

NetShark 6170

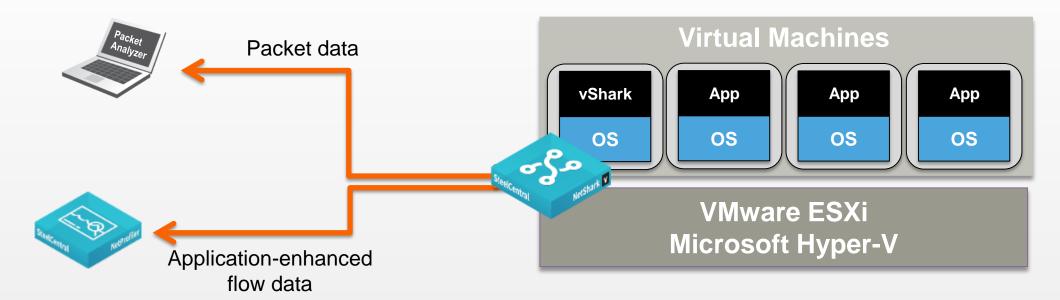


Storage Unit 6170



^{*} Storage Unit required with NetShark 6170. Up to 8 Storage Units can be used.

NetShark-V: Visibility into Virtual Environments



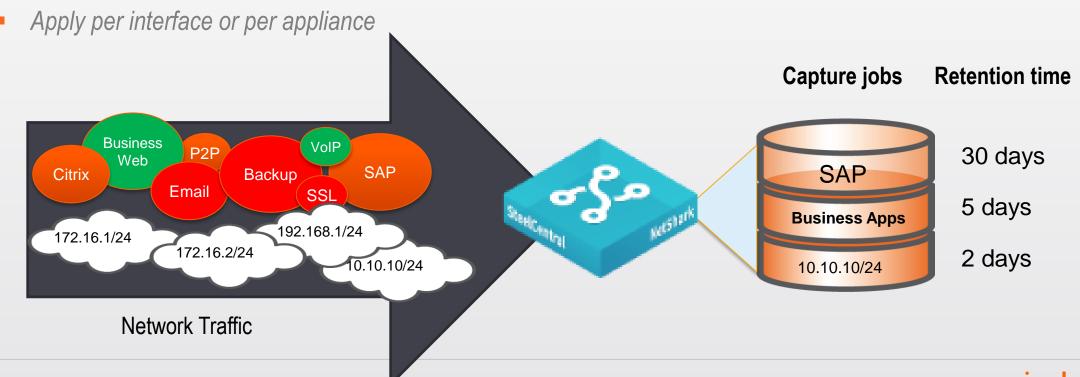
- Real-time visibility into virtualized and cloud environments
 - Software version of NetShark continuous packet capture appliance
 - Monitors all inter-VM traffic crossing VMware vSphere or Microsoft Hyper-V virtual switch
- Simultaneous packet capture and flow export
 - Continuous packet capture for back-in-time analysis via Packet Analyzer
 - Store packets locally or on SAN
 - Works with NetProfiler to provide unified visibility across physical & virtual network
- Available in 3 models: 50GB, 1TB or 2TB

SteelCentral NetShark

Multiple concurrent capture jobs

Run multiple concurrent capture jobs

- Configure different data retention and wrap policies per capture job
- Apply different filters (standard Wireshark capture filters) or packet slicing per job

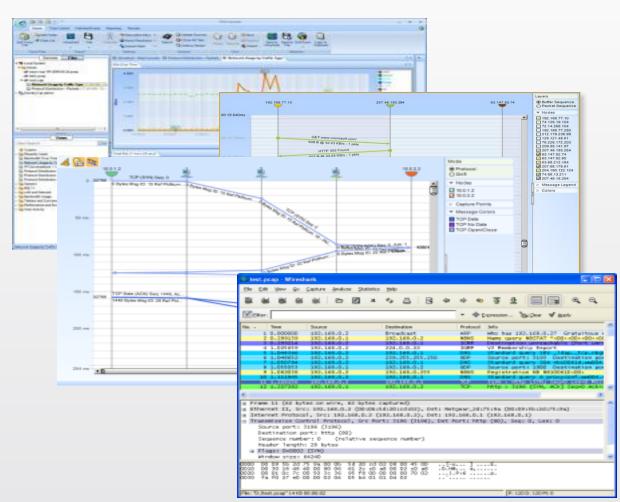




SteelCentral Packet Analyzer

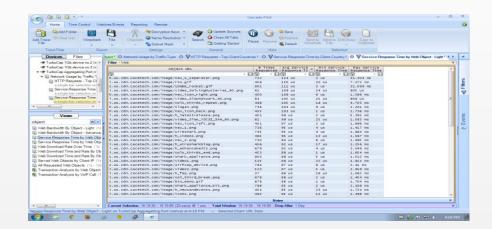
Powerful, visually rich packet analysis software for NetShark

- Intuitive, visual interface with broad selection of interactive Views
- Packet, transaction and multi-segment analysis in a single solution
- Quickly open and analyze multi-terabyte trace files
- Seamlessly integrates with Wireshark world's most popular protocol analyzer
- Integrates with Transaction Analyzer for transaction analysis and "what if" predictions



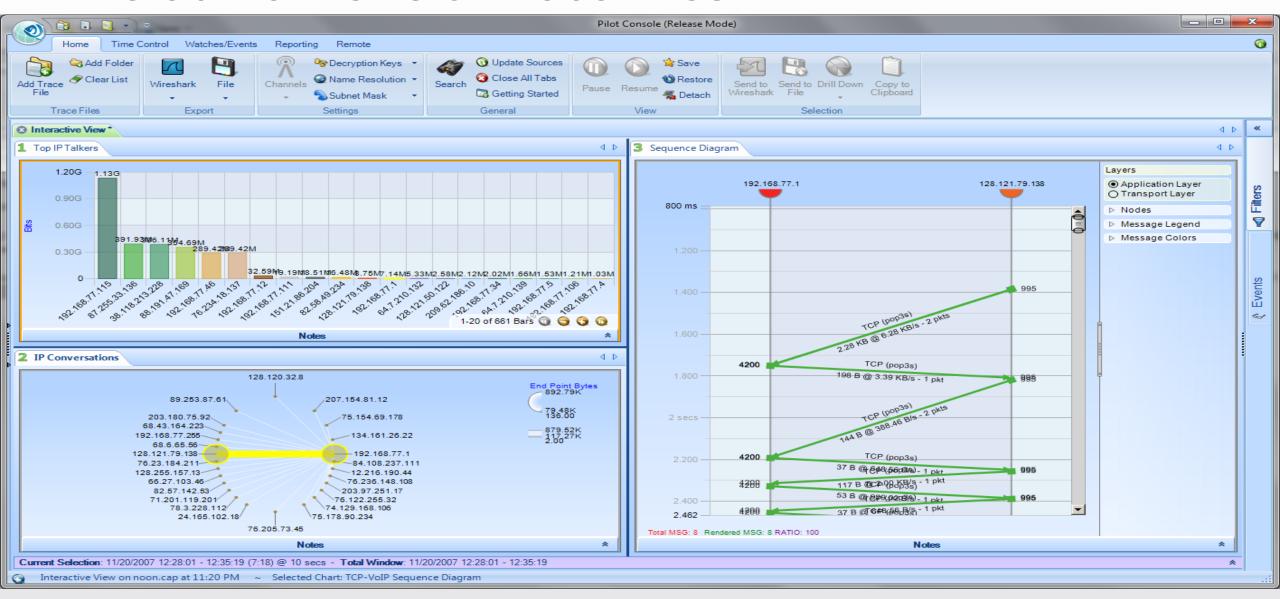
Broad Selection of Interactive Views

- LAN/WAN troubleshooting
 - MAC, VLAN, ARP, ICMP, DHCP, and DNS
- Bandwidth usage
 - MicroBursts, IP, TCP, Web, FIX and VoIP
- Talkers and conversations
 - IP, subnets, countries, TCP, Web, and VoIP, FIX
- Performance and errors
 - IP, TCP, Web, VoIP, FIX
- User activity
 - Web, VoIP, FIX
- 802.11 WLAN troubleshooting
 - Discovery, Bandwidth, Channel Usage, Retransmissions, Signal, Noise





Interactive Views of Trace Files



For More Information

- Content Pack
- ROI Calculator
- Case Studies
 - Veolia Water Technologies
 - Tiburon Associates
- Analyst Papers
 - ESG The 'Application Deluge and Visibility Imperative'

Thank You