



NexusTRACE

Software-Only Centralized Protocol Analyzer for Tracing IP Networks

- ▶ Analyze Backhaul MPLS Network Performance
— In Seconds!
- ▶ Don't Deploy Costly Monitoring Hardware
- ▶ Access Any Network Node from the Desktop
- ▶ Troubleshoot Network Services as They Run
- ▶ Let NexusTRACE Focus on Problems



NEXUSTELECOM
NETWORK AND SERVICE INVESTIGATION

NexusTRACE

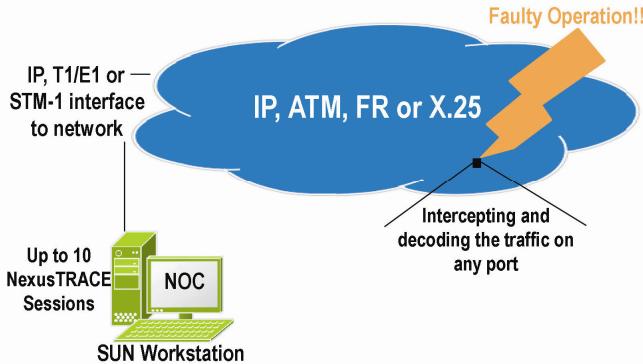
Let the Network Work for You

NexusTRACE delivers the ability to analyze the network's faulty transactions from the comfort of one's office chair. It is the ultimate protocol troubleshooting and application analysis tool that fuels your Network Operations Center with advanced remote multi-protocol analysis capability for access points anywhere in your network.

Fast & Easy Troubleshooting

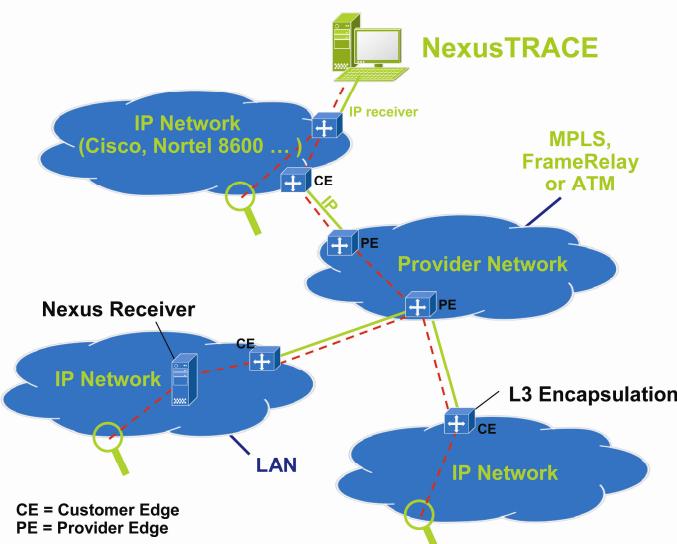
NexusTRACE has the same look and feel as traditional hardware protocol analyzers, but is easier to use and runs on your network management workstation or any other workstation connected to your network.

With virtually hundreds of installed systems globally, support experts choose NexusTRACE to decode, display and troubleshoot virtual circuits and protocol stacks on any port in their Data and IP Networks.



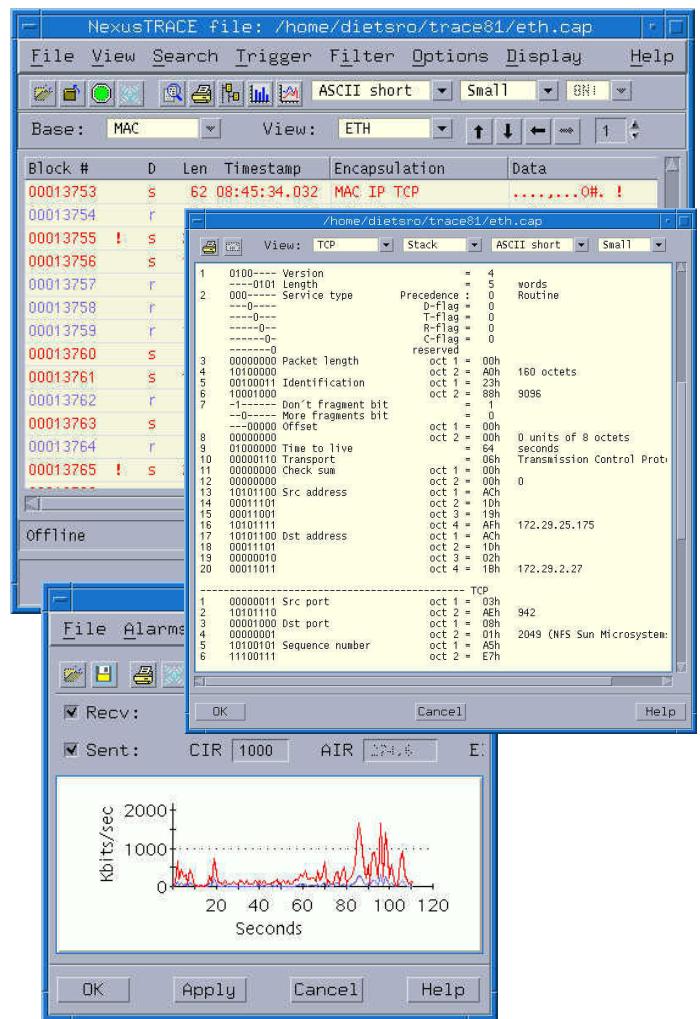
Capture Remote Traffic for Central Analysis

NexusTRACE can also be used in MPLS networks to troubleshoot on remote data and IP network ports, capturing the data on virtual circuits for local desktop analysis.



Bringing Protocol Analysis to your Desktop

As network operator of a carrier or an enterprise network, you know that solving network problems quickly is vital to your business.



With NexusTRACE, monitor your interfaces in real-time anywhere, anytime to spot and resolve network service degradations quickly. While troubleshooting your network, NexusTRACE filters can focus on areas of interest, with automatic triggers and alarms alerting you to problems which can be instantly viewed in terms of Utilization impacts and expanded on for full details.

Effective & Timely Network Problem Analysis

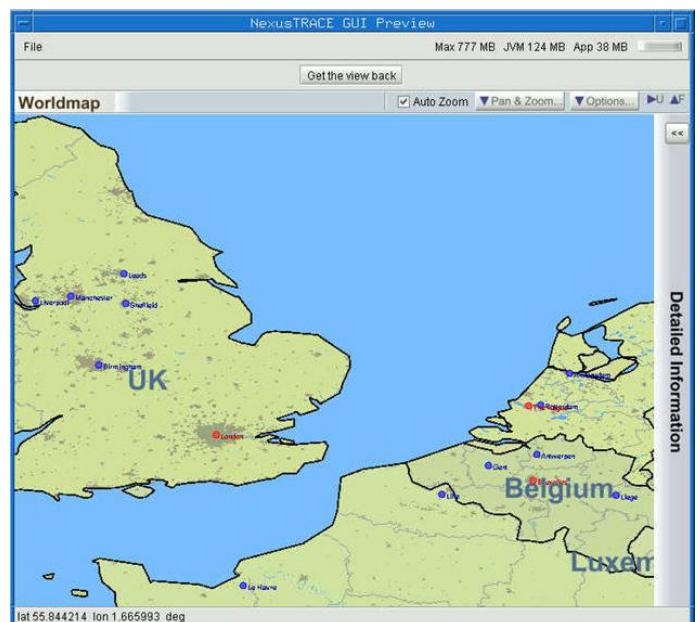
View Data On-Line and in Real-Time

Let NexusTRACE help you avoid the hassles and expense of on-site troubleshooting, while freeing your skilled and dedicated personnel to focus on business development.

- ▶ Traced data can be viewed on-line and in real-time, while it is captured to a configurable file for further analysis
- ▶ Multiple concurrent sessions: One NexusTRACE application permits a number of users to simultaneously trace a number of connections
- ▶ Supports a wide variety of network equipment: IP, ATM, FR and X.25 switches from Cisco, Nortel and Alcatel-Lucent networks
- ▶ Decodes all standard protocols: IP, Ethernet ATM and ATM-signaling support protocols, Frame Relay, FTP, HTTP, POP3, RIP, BGP-4, etc.
- ▶ Modular Architecture for adding protocols as required
- ▶ Automatic identification of encapsulated protocols
- ▶ Triggers fire upon receipt of specified strings or message types, including EIR alarms, and send user alerts via e-mail or pager
- ▶ Filter on necessary information only
- ▶ Configurable network commands
- ▶ Browse command lists for fast selection of receiver appropriate commands
- ▶ Flexible Connection Process
- ▶ Real-time throughput statistics for IP, Frame Relay and ATM traffic
- ▶ Optional fully automated startup and shutdown
- ▶ Export to PCAP file format

Start Troubleshooting from the NMS or Network Graphics

NexusTRACE can now trace back calls to the console from graphics previously made from the application. For example, if you are troubleshooting your networks in a particular geographical area and note something suspicious that you want to look into, the NexusTRACE application and session can be started again by either simply clicking on the NexusTRACE World Map GUI or on a related file, such as a .pdf or .html file.



Similarly, a NexusTRACE session can be reactivated from the NMS (Network Management System), further facilitating quick and easy network troubleshooting and protocol analysis at your convenience.

Platform Requirements

Platform requirements include a Sun Solaris workstation with Ethernet or an otherwise appropriate HSI, E1/T1 or STM-1/OC-3 interface.

Network Troubleshooting in Comfort & Style

Troubleshooting with NexusTRACE: A One Man Show!

As a centralized port mirroring, tracing and data capturing tool, NexusTRACE locates problems in the network quickly and easily.

- ▶ Fast - One person alone can do the tracing
- ▶ Flexible – Many simultaneous users possible, while monitoring sessions are automatically removed upon closing a session
- ▶ Easy to Use
 - No switch expertise is required
 - No NMS programming skills are necessary
 - No network passwords are (necessarily) required

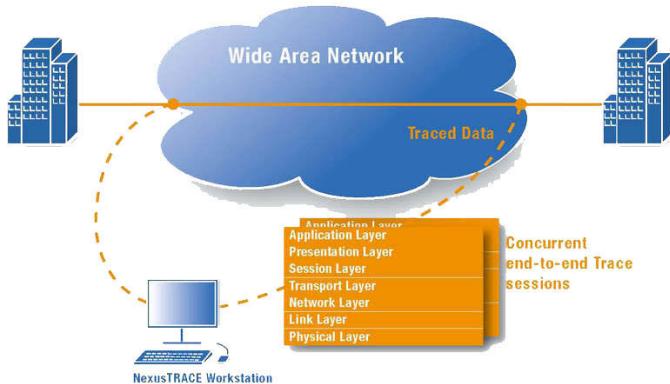
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Key Benefits

- ▶ Meet aggressive SLA problem resolution targets
- ▶ Fulfill lawful interception requirements
- ▶ Increase your service levels by locating your customers' problems
- ▶ Monitor interfaces on your IP, ATM, Frame Relay and X.25 networks where network elements or end-user devices such as DSLAMs, DTUs and other multi-vendor equipment are connected
- ▶ Check whether the Internet traffic on your network shows any signs of overload or is otherwise deficient
- ▶ Quickly solve provisioning errors with detailed protocol analysis
- ▶ Save and recall capture profiles with predefined settings
- ▶ Save time and money with NexusTRACE: minimize travel to remote sites
- ▶ NexusTRACE is not service-affecting
- ▶ Start from the NMS or network graphics

NexusTRACE — The Time is Now

NexusTRACE provides a uniquely cost-effective way to gain quick insight to the backbone network in order to visualize problems and improve troubleshooting capabilities.



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