



Remote Monitoring Probe Family

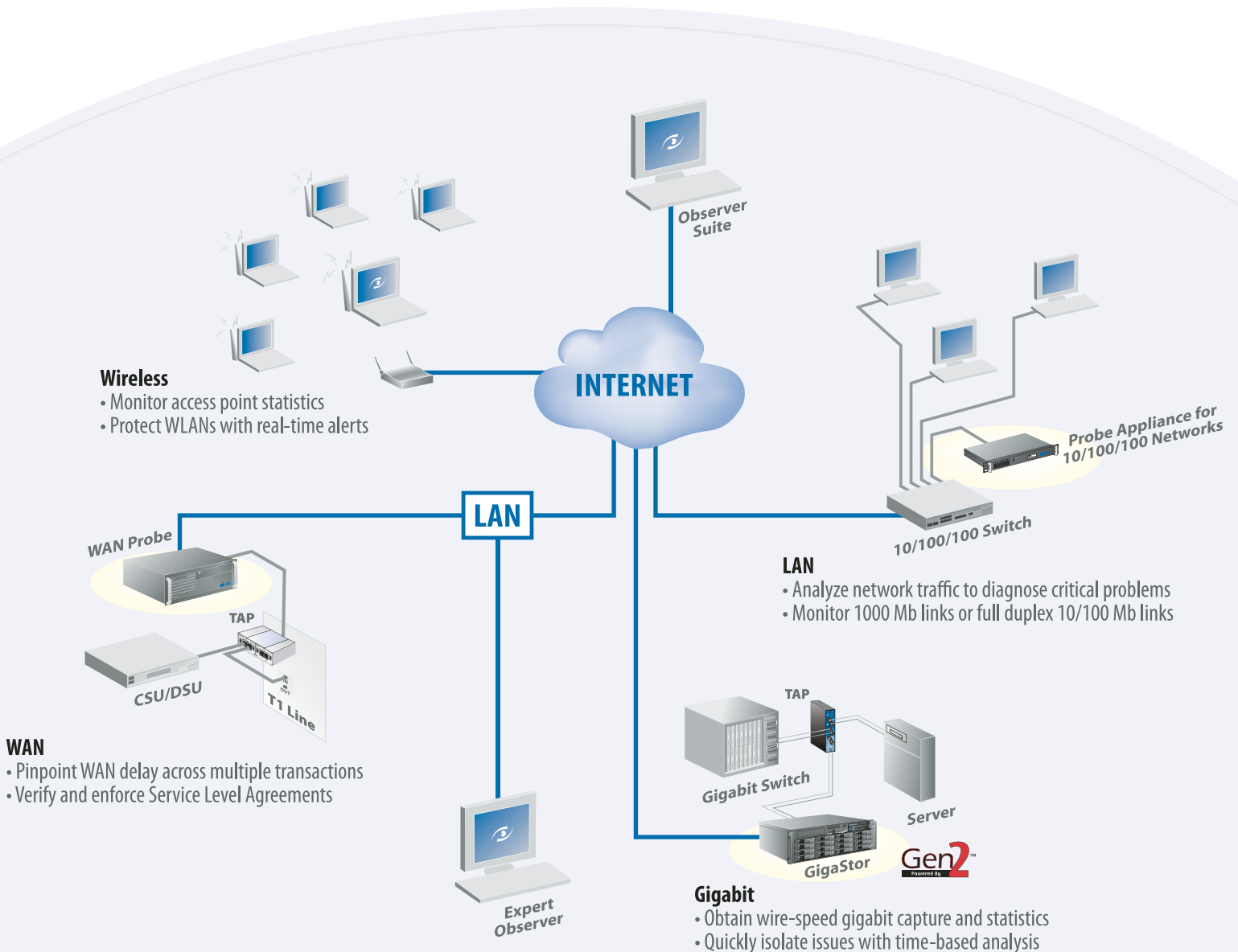
Providing distributed analysis across the enterprise network

Monitor and troubleshoot critical areas of the network with probes

Network Instruments offers a complete line of probes that monitor network activity across multiple topologies. Network Instruments probes support LAN, WAN, gigabit, and 802.11 a/b/g, and have the option to support RMON and HCRMON. Probes report to Observer consoles located anywhere on the network for distributed visibility.

Network Instruments probes help network professionals:

- Gain insight and visibility into every part of the network
- Manage remote networks as easily as local networks
- Eliminate the time and expense of traveling to remote segments
- Speed troubleshooting by collaborating resources with other users





10/100/1000 Ethernet Probes

Monitor Fast Ethernet and 10/100/1000 network links by deploying Ethernet probes throughout the enterprise.

Probe Appliance for 10/100/1000 Networks

The Probe Appliance for 10/100/1000 networks has the option to monitor one or two links. This probe permits multiple sessions by users, includes user-based access permissions, and offers options to perform real-time Expert processing at the probe to speed troubleshooting and conserve bandwidth.



1U Probe Appliance for 10/100/1000 Networks

Multi-Port Probe Appliance for 10/100 Networks

The Multi-Port Probe Appliance for 10/100 networks monitors four Fast Ethernet links simultaneously, speeds problem solving with its multi-session support and Expert analysis, performs packet decodes at the individual probe level to conserve bandwidth, and includes user-based access permissions.

10/100 Full-Duplex Probe Appliance

The 10/100 Full-Duplex Probe Appliance monitors full-duplex Fast Ethernet networks, allowing multiple sessions by users, offers options to perform real-time Expert processing at the probe to speed troubleshooting and conserve bandwidth, and user-based access permissions.



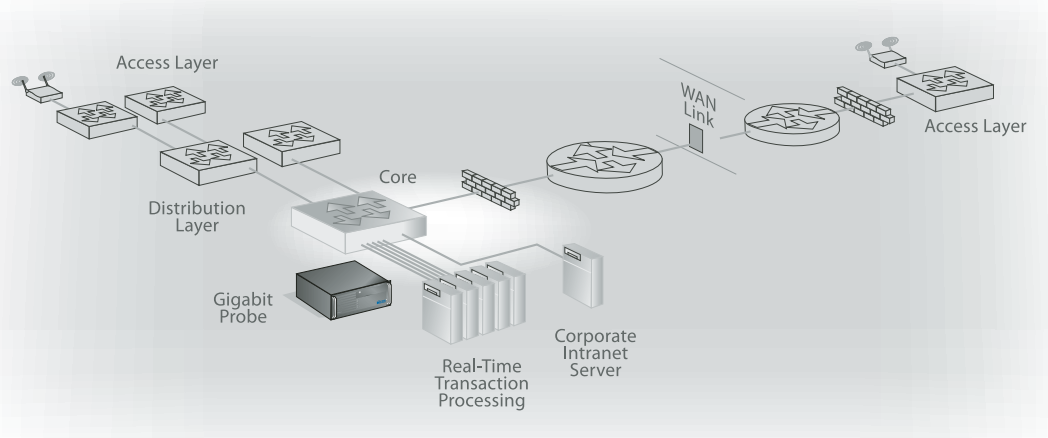
Gigabit Probes

Gigabit Probes provide a direct, passive link into the data stream, offering an independent, proven, and trusted view of gigabit traffic.

Gigabit Probe Appliance

The Gigabit Probe Appliance is a rack-mountable 4U unit that monitors up to four full-duplex gigabit links at wire speed. This probe offers visibility into individual or trunked links, real-time Expert processing at the probe to speed troubleshooting and conserve bandwidth, multiple sessions by users, user-based access permissions, and support for the industry's largest memory buffer (up to 124 GB).

An Example of a Gigabit Probe Deployment



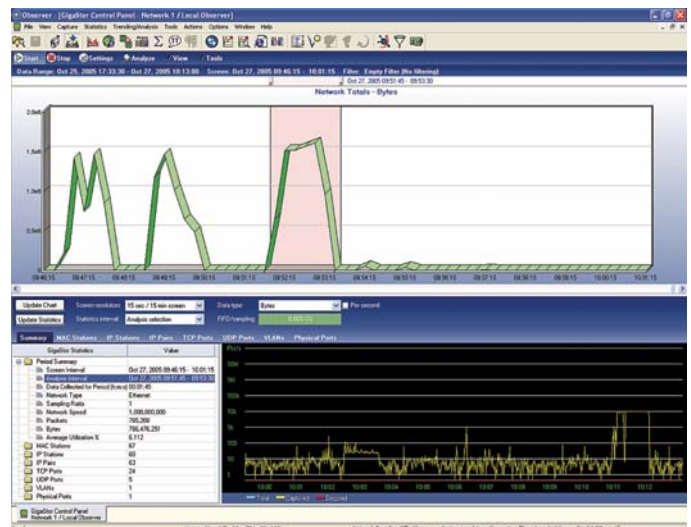
GigaStor™

The GigaStor is a rack-mountable unit specifically designed to capture hours, days, even weeks worth of full-duplex traffic at gigabit line rate for data mining. Go back in time and isolate issues down to the nanosecond with a simple time-based navigation interface and reconstruct captured data (web pages, e-mails, phone conversations, instant messages). The GigaStor also allows for multiple sessions by users and individual levels of probe access.

Available in 2TB, 4TB, and 8TB configurations.



GigaStor Probe Appliance



GigaStor Interface

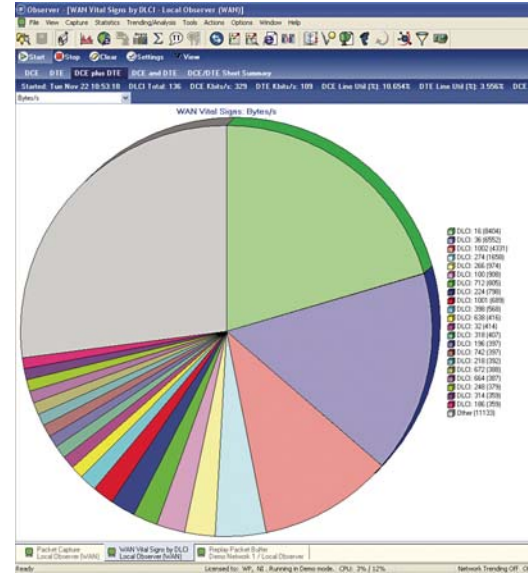
WAN Probes offer complete inline monitoring, decode and statistics for WAN traffic, and all header and payload data for WAN links.

WAN Probe Appliance

The WAN Probe Appliance monitors all header and payload data on serial and digital WAN links. Monitor up to 16 links individually or in aggregate, obtain metrics in real time, and solve issues immediately with a comprehensive Expert system. The probe also displays DCE/DTE traffic individually or in aggregate, shows CIR to compare with a SLA (Service Level Agreement), and tracks conversations through up to 10 segments or hops.

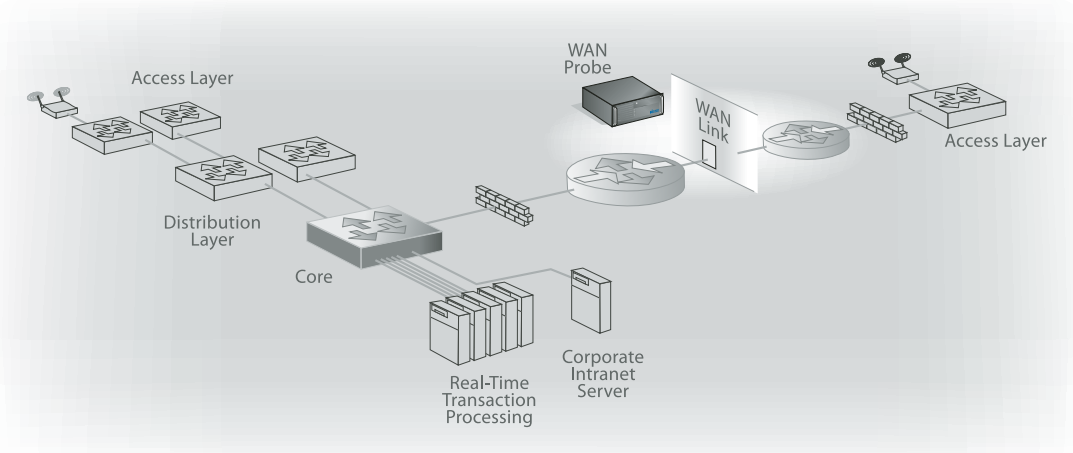
WAN Probe Kit

The WAN Probe Kit includes all the necessary components for managing WAN links, including a dedicated WAN capture adapter, Advanced Expert Probe software, TAP, and required cabling. WAN Probe kits are installed in a Windows system and can be configured for one or more WAN links. Obtain metrics in real time, confirm SLA, track conversations through up to 10 segments or hops, and solve issues immediately with a comprehensive Expert system.



WAN Vital Signs

An Example of a WAN Probe Deployment



 **Software Probe Options** (For network speeds up to 1000 Mbps)

Network Instruments offers a line of software probes to monitor network activity across Ethernet, gigabit, and 802.11 a/b/g links, and have the option to support RMON and HCRMON. Three levels of software probes are available.

Advanced Single Probe

The Advanced Single Probe reports to Observer consoles located anywhere on the network for distributed visibility, and provides decodes, real-time statistics, and long-term trending. Network data is encrypted before transfer to the console, and probe access is password protected.

Advanced Multi-Probe

The Advanced Multi-Probe provides all the functionality of the Advanced Single Probe, plus the ability to monitor multiple networks concurrently, allows multiple administrators access for real-time collaboration from any remote location, and supports the industry's largest capture buffer.

Advanced Expert Probe

The Advanced Expert Probe includes all the functionality of the Advanced Multi-Probe, plus displays remote Expert Analysis in real time for faster troubleshooting, performs packet captures and real-time decodes at the individual probe level this functionality conserves bandwidth by only transferring Expert screenshots to the console, not raw data packets.

Observer Memory and Security Configuration

Probe Instances | User accounts | New user | Edit user | Delete user

User account permissions for the Probe instance: Demo Network 1 (ID=0)

Access	User Accounts	Encrypt Data	Configure	Redirect	Select Adapter	Capture Packets	Network Trending	Internet Patrol	WAN Configuration	Modify Partial Packet Capture Size
<input checked="" type="checkbox"/>	bjohnson	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	cmorris (Administrator)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	jdawson	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Memory Management | Adapters and Redirection | **Security** | Reserved Memory | Probe Name

OK Cancel

Probe Security Options

Observer Console Options

Probes report to Observer consoles located anywhere on the network for distributed visibility. Three levels of Observer consoles are available.

Observer

Observer displays and analyzes data in real time, providing packet captures and decodes, statistics, triggers and alarms, trending and reporting, error tracking, and router usage metrics.

Expert Observer

Expert Observer provides all the functionality of Observer, plus a real-time and post-capture Expert system, which identifies network issues and offers immediate solutions. It also includes an extended level of VoIP analysis, conversation tracking, performance predictions, application analysis, and the ability to reconstruct and display data streams.

Observer Suite

Observer Suite provides all the functionality of Expert Observer, plus SNMP device management, RMON and HCRMON management consoles, and a built-in web reporting service. Additional features include SOAP support, a switch station locator, and automated report delivery.



Observer Main Console

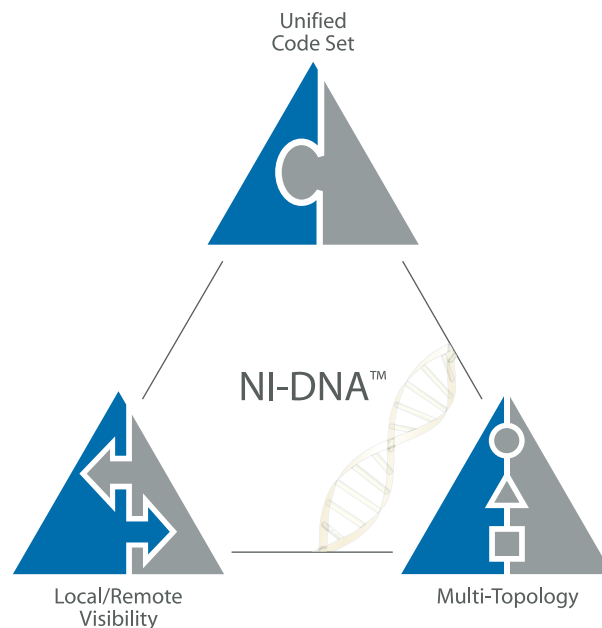
Probe Management

Network Instruments Management Server (NIMS™)

The NIMS retains a list of usernames, passwords, and permission levels for multiple probes on the network to globally authenticate users. NIMS can link up to a local Windows system, Active Directory server, or RADIUS system to consolidate user account lists. For the network manager, the NIMS provides centralized licensing, security, and an update system as well as failover redundancy for more efficient probe management. For network administrators, the NIMS provides shared access to analysis tools, including Observer's filter library.

Driven by Distributed Network Analysis (NI-DNA™)

Network Instruments has a unique competitive edge in the network analyzer market with its Distributed Network Analysis (NI-DNA) architecture. All Network Instruments products are built from a **unified code set** that ensures the user experience and product functionality are identical regardless of topology or location. Observer consoles analyze local networks and connect to distributed probes to provide both **local and remote visibility** across the entire organization. With **multi-topology support**, Observer's single user interface can simultaneously manage almost every topology and technology that exists in today's networks.



About Network Instruments

Network Instruments is the industry-leading developer of distributed, user-friendly and affordable network management, analysis and troubleshooting solutions. The award-winning Observer family of products combines a comprehensive management and analysis console with high-performance probes and network TAPs to provide integrated monitoring and management for the entire network (LAN, 802.11 a/b/g, gigabit, WAN). All Network Instruments products are designed utilizing a Distributed Network Analysis (NI-DNA™) architecture. With NI-DNA, the Observer solution set simplifies network troubleshooting and management, optimizes network and application performance and scales to meet the needs of any organization. Founded in 1994, Network Instruments is headquartered in Minneapolis, Minnesota with offices in London, Munich, Paris, Toronto, and multiple cities throughout the United States with distributors in over 50 countries. More information about the company, products, innovation, technology, NI-DNA, becoming a partner, and NI University can be found at: www.networkinstruments.com.

Solution Bundles

Contact a Network Instruments representative or dealer to ask about product bundles that cover all of your network management needs.

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