

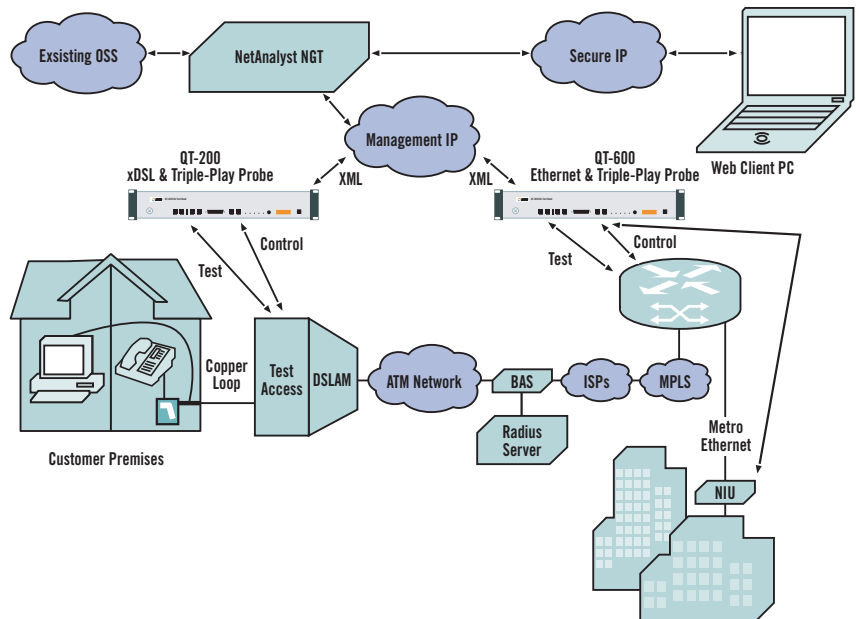
NetAnalyst™ NGT



Features

NetAnalyst NGT enables increased productivity, reduced operational expense, and improved customer satisfaction

- Minimize mean-time-to-revenue with timely and accurate service turn-up validation
- Reduce mean-time-to-repair by rapidly verifying and isolating problems without field dispatch
- Reduce maintenance costs by dispatching only when necessary; then to fix not find.
- Eliminate bottlenecks due to scarce availability of skilled IP technicians with easy-to-use Tier 1 technician GUI and customizable test automation tools
- Reduce training and operating costs by using common NetAnalyst interfaces and tools eliminating swivel chair ops for different services
- Confidently and cost effectively expand service assurance capabilities to grow with new IP Broadband network services via modular extensibility of JDSU NetComplete™ solutions



As the offerings of service providers expand to encompass complex video and data services and as POTS services are migrated to VoIP, the necessity for rapid and accurate turn-up, fault isolation, and trouble resolution processes has become critical. Furthermore, as these complex networks expand in scale and services, service providers must rely on operational support systems (OSSs) for efficient network management. Today's powerful new OSSs must offer best-in-class capabilities to ensure high-quality service through-out the network service lifecycle.

JDSU NetAnalyst NGT is the most powerful, scalable, and cost-effective system available for managing on-demand and automated testing of revenue-generating communication services including private line, SONET/SDH/PDH, Metro Ethernet, xDSL, and broadband IP services such as VoIP and IP video. As part of the JDSU NetComplete Service Assurance Solution, NetAnalyst NGT resides at the core of a successful IP service fulfillment and assurance strategy as either a stand-alone application or as an add-on to existing NetAnalyst private line applications. By managing the testing of voice, video, and broadband IP services,

NetAnalyst NGT provides a simple and intuitive Web-based graphical user interface (GUI) for JDSU QT-200 xDSL and QT-600 Ethernet probes. The efficient turn-up and maintenance of IP-based services presents many new challenges to today's competitive service providers. New processes and additional training must be implemented to accommodate the resulting network- and service-related changes. NetAnalyst NGT is designed to streamline service providers' test and maintenance implementations of today's growing broadband access technologies and associated IP services. By simplifying testing and enabling automation, NetAnalyst NGT reduces operating and training costs and improves efficiency and customer service.

JDSU NetAnalyst NGT directly addresses the proliferation of next-generation telecommunications services such as IP video and voice over IP in addition to traditional xDSL and Metro Ethernet IP Data services. Combined with JDSU remote testing tools, NetAnalyst NGT provides the real-time monitoring and on-demand testing needed to maximize service operability and reduce maintenance costs and customer churn.

Access Technologies Overview: Metro Ethernet/xDSL

Ensuring the successful deployment and profitability of voice, video, and data services over Metro Ethernet and xDSL networks requires remote visibility into the customer's connections and service quality. Utilizing JDSU's extensive experience with centralized test systems, NetAnalyst NGT provides the ability not only to perform the necessary testing, but it also provides the ability to control network elements and test access devices in the network in order to streamline the turn-up and trouble resolution processes. By integrating industry standards, such as RFC-2544, and establishing partnerships with network interface unit (NIU) and network equipment (NE) manufacturers, JDSU is able to remotely verify network performance from the core of the network out to the customer premises. For xDSL networks, similar integration and partnerships allow JDSU to seamlessly integrate with network equipment to automatically and remotely access and test the desired copper loops and verify the operational status of service provider and ISP networks.

Ensuring Voice Services Quality and Availability

Providing dial tone to a customer may, at first glance, appear to be the most basic of services. However, even in the age of the ubiquitous mobile phone, most consider the telephone in their home a lifeline to family, friends, and emergency services. Therefore, ensuring the availability of voice services cannot be overlooked. Whether the service is POTS, VoIP, or a combination of the two, NetAnalyst NGT, in conjunction with the JDSU QT family of probes, provides both active and passive testing of service quality and availability. For POTS services, JDSU provides the traditional copper loop testing capabilities needed for turn-up and trouble resolution. For VoIP, JDSU provides key quality metrics, such as MOS scores and R-Factor, in addition to in-depth signaling analysis and active call generation to verify service availability and quality.

Ensuring Video Services Quality and Availability

Although voice services may be the most critical, video services have the least tolerance for poor quality. Customers expect video services to be available and to be provided with very high quality at all times. As a result, problems with deployment and recurring issues with video quality lead to high customer churn. Therefore, the ability to actively monitor the end users' experience is crucial to proactively addressing video problems. NetAnalyst NGT, in conjunction with the JDSU QT family of probes, provides critical information about the quality of the video transport stream being provided to the customer. Customizable thresholds and event notification provide indication of service interruption, significantly reducing mean time to repair.

Ensuring IP Data Services Quality and Availability

For many triple-play implementations, IP connectivity provides the transport mechanism for voice and video services in addition to data connectivity. As a result, ensuring IP network operability is critical. NetAnalyst NGT, in conjunction with the JDSU QT family of probes, provides critical IP service assurance for xDSL and Ethernet networks. For xDSL services, NetAnalyst NGT provides both look-in and look-out testing from the DSLAM, thus clearly sectionalizing problems. xDSL testing includes copper qualification and bit rate prediction to the end user and ATM, PPP, and IP connectivity verification. For 10 Mbps, 100 Mbps, and Gigabit Ethernet services, NetAnalyst NGT monitors a host of Ethernet and IP parameters, including RFC-2544 conformance, link status, bandwidth utilization, IP conversation analysis, robust filtering, and integrated expert analysis of data and control plane faults.

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