



Agilent N2X Broadband Infrastructure Test Solution

Best in class testing verifying ultimate scalability and performance of edge aggregation devices

The N2X Access solution set offers unmatched realistic testing of edge aggregation devices:

- Scales to hundreds of thousands of concurrent subscribers
- Uses comprehensive protocol and traffic generation capabilities to emulate triple play services
- Simplifies complex test configurations with a versatile user interface
- Facilitates problem isolation and end-to-end performance characterization through unique real-time 'per service stream' measurements
- Provides a realistic test environment with simultaneous control and data plane verification
- Combines channel zapping with MDI measurements for scalable and realistic IPTV QoE testing

Agilent N2X is the industry's most comprehensive test solution for testing the development and deployment of network services for converging network infrastructures.

Service Providers, Network Equipment Manufacturers (NEMs), and component manufacturers can verify service attributes of entire networks end-to-end, while also isolating problems down to individual networking devices and subsystems.

Broadband access services are evolving from a simple high speed internet connectivity mechanism to one which delivers triple play services (voice, video and data over one connection). This requires a new generation of devices to manage the increased complexity and interoperation of protocols whilst differentiating traffic types at high scale.

Only Agilent N2X comprehensively and realistically verifies the ultimate performance and scalability of next-generation broadband access devices such as Broadband Remote Access Servers (B-RAS), IP DSLAMs and edge routers. By providing the industry's most scalable, easy to use and realistic network emulation, N2X can validate the ultimate service limits of these new aggregation devices giving you confidence that they will perform as expected once deployed.



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Unprecedented Subscriber Scalability

The scalable performance of underlying edge aggregation devices is critical to the ability of networks to deliver against the new wave of triple play services and match broadband subscriber growth. Only Agilent N2X with its unparalleled PPPoX, DHCP, MLD and L2TP protocol scalability can validate the ultimate performance of a device's ability to deliver new revenue generating services, including Voice over IP (VoIP) and IPTV. Each Ethernet and ATM high-performance 'XS' test card can emulate up to 64,000 PPPoX subscribers at a set up rate of 500 PPP sessions per second, saving significant setup time and cost involved in maintaining large test beds.

Unmatchable IPTV QoE Measurement

The N2X IPTV QoE test solution truly characterizes the service quality aspects on a per subscriber basis. Each N2X port can emulate thousands of IPTV subscribers with simulated dynamic behaviors as well as generate and receive highly scalable combinations of video, data and voice traffic. N2X uses Media Delivery Index (MDI) delay factor and loss metrics to scale video quality metrics for thousands of individual subscribers, replacing the need to test with a lab full of devices and providing engineers with significant time and cost savings.

Superior Usability

Agilent N2X simplifies testing through unique ease-of-use features, which accelerates complex test configurations. Users can quickly and easily establish thousands of concurrent PPPoX, DHCP and L2TP sessions at one port and generate traffic over those sessions, eliminating the need for configuring and managing thousands of individual clients. By emulating both DHCP clients and servers, the unique N2X DHCP solution doesn't require any "real" DHCP servers in test scenarios. Agilent N2X's flexible PDU Builder, multi-protocol emulation environment and interactive user interface makes N2X the most realistic solution capable of simulating an environment that accurately reflects the complexity and volatility of live networks.

Companion N2X Products

The Agilent Network Tester is a highly scalable and flexible solution for performance testing Layer 4-7 security and content networking devices. As a companion to N2X, the Network Tester provides real world application layer traffic generation, enabling developers to verify the end user experience and performance of applications running over a broadband network.

For more information, please visit:
www.agilent.com/comms/N2X

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