



Agilent NetworkTester

The Most Powerful Layer 4-7 Real-World Performance Testing Solution

Industry's Broadest Range of Supported Protocols

Over 20 supported protocols for unprecedented test realism:

- HTTP, HTTPS, FTP, SMTP, POP3, DNS, Telnet, RTSP, RTP, IGMP, SIP, H.323, MGCP, SNMP, NFS, CIFS, ICMP, Traceroute, NNTP, Jabber, DHCP

Integrated network access protocols:

- IPSec VPN, PPPoE, DHCP, 802.1x, VLANs

The Agilent Network Tester is the most powerful and flexible solution for testing the real-world performance of application-aware devices and services.

Network Equipment Manufacturers, Service Providers and Network Operators can use Network Tester to analyze application-aware devices to obtain real-world performance characteristics under peak levels of load and stress, as expected in real network environments. This allows test engineers to confidently assess equipment's ability to perform without disrupting service or compromising quality of user experience.

Network Tester achieves unparalleled testing realism by using real Internet Applications, VoIP, streaming video and IPTV traffic in realistic protocol and transaction distributions. Combined with malicious attacks and exploits, this subjects the devices to complex traffic conditions undistinguishable from real-world network environments. In addition, Network Tester has the power to simulate proprietary protocols such as Peer-to-Peer, IM and On-line Gaming, making it the most comprehensive Layer 4-7 performance and stress resilience testing system on the market.

Network Tester accelerates the development and deployment of network security and other application-aware devices by:

- Generating real-world mixes of Internet Data, VoIP, Streaming Video, IPTV and P2P traffic on the same test interface
- Simultaneously emulating multiple Denial of Service, worm, virus and spam attacks to measure it's impact on legitimate traffic performance
- Generating real-world stateful traffic over integrated IPsec, IPsecv6, PPPoE, DHCP, 802.1x and VLANs
- Scaling traffic up to emulate tens of thousands of real clients and servers to measure device capacity, scalability and performance under load
- Reporting multiple real-time QoE statistics for multiple services, providing accurate, holistic insight into the device application layer performance



The Agilent Network Tester Layer 4-7 Solution



Agilent Technologies

Create Complex Realistic Test Scenarios in Minutes!

Network Tester's powerful GUI allows users to create and execute complex real-world test scenarios literally within minutes. Simply drag and stack configurable Protocol Bricks to create multi-protocol traffic profiles combined with malicious attacks without any need for scripting. Key features like the String Editor and Named Attributes permits randomization of parameters such as URLs, spam subject lines, and e-mail file attachments. Network Tester's Transaction Variability feature enables users to change parameters on the fly, without stopping the test. Combined, these features enable extremely complex real-world scenarios to be setup and executed quickly and easily.

Real-World Application Traffic Mixing

Network Tester provides seamless integration of application data, voice, and video protocols with DoS attacks and other malicious exploits such as worm and virus infected traffic payload. Powerful protocol and transaction mixing capabilities allow for creation of multi-protocol weighted traffic profiles that closely emulate real-world network environments. This provides for a test solution that thoroughly stresses all application-aware device's protocol specific processing features and options.

Network Tester's broad range of industry supported protocol includes Internet data, VoIP, Streaming Video and IPTV protocols and is complemented with sophisticated Capture/Replay feature for simulating proprietary applications such as Peer-to-Peer, File-Sharing or On-line Gaming. VLAN support and access protocols such as IPsec, PPPoE, DHCP and 802.1x are also available with full IPv6 capability.

Measure Internet-Scale Performance in the Lab

With Network Tester, users can simulate thousands of clients and servers to easily stress a device to its limits. Generate and measure hundreds of thousands of transactions per second or millions of user sessions – all from a single test application.

Network Tester is ideal for lab environments that need to validate the real-world performance limits of application-aware devices including firewalls, service-aware routers, session controllers, and content servers. With the ability to surround devices with real voice, video and data traffic with IPsec encryption and multiple DoS attacks, Network Tester provides the most realistic test environment to uncover problems before your customers do.

For more information, please visit:

www.agilent.com/find/networktester

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