

N2X High Availability Solution

The industry's most comprehensive and complete solution for evaluating high availability mechanisms.

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

The N2X High Availability Solution provides service providers and equipment manufacturers a complete solution for verifying scaled multi-protocol high availability scenarios. With scalable emulation software, a Graceful Restart conformance test suite and a dedicated productivity application automating complex scenarios, N2X reduces the overall test-bed investment and time-to-deployment.

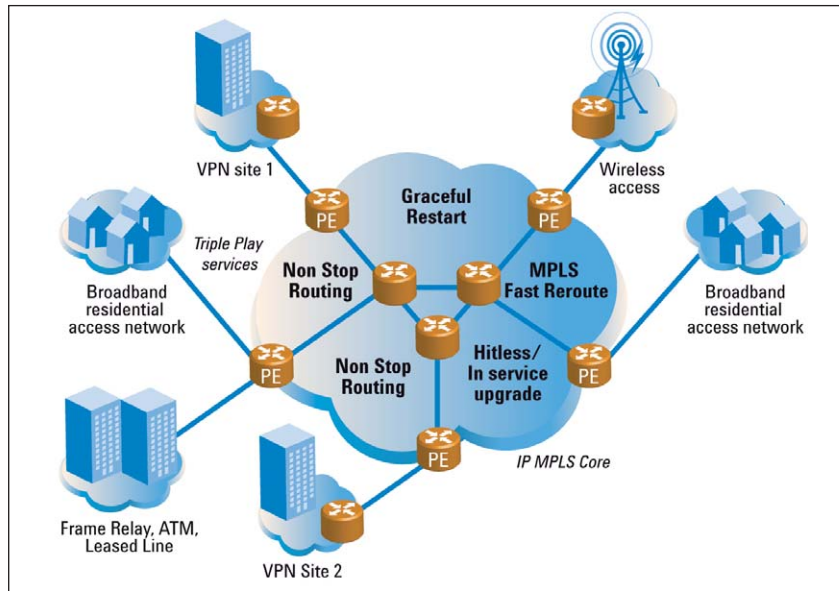
To ensure network reliability, Service Providers require a stable and reliable IP network to allow efficient delivery of delay-sensitive Multiplay services. Resiliency technologies such as Graceful Restart and MPLS Fast Reroute enable IP networks to survive network outages and allow in-service upgrades of core network components, eliminating planned network maintenance downtime.

The Agilent N2X provides the most complete High Availability solution to ensure test realism, scalability and faster time to insight:

- Verify device control-plane restart performance and scalability.
- Characterize the impact of network impairments on Layer 2/3 services and end-user experience through comprehensive protocol emulation coverage of all routing and signalling Graceful Restart protocol extensions, MPLS fast reroute and MPLS make before break.
- Use industry-standard OAM mechanisms, such as LSP Ping and Trace, to confirm verify data-plane activity, measure delay and verify the exact paths of thousands of active MPLS tunnels.
- Simplify and accelerate testing of network reliability with focused productivity applications and a comprehensive conformance test suite.



Agilent Technologies



Converged multiservice IP/MPLS network will require multiple HA mechanisms to achieve 5-nines reliability

For more information, please visit:

www.agilent.com/find/N2X

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Test Realism

The Agilent N2X provides unparalleled test realism to verify the ultimate performance of high availability mechanisms. With comprehensive coverage of all routing and signalling high availability technologies, N2X provides the industry's most flexible multi-protocol emulation that enables realistic test simulation of converged networks. Coupled with accurate data-plane convergence measurements and automated OAM failure detection and diagnostics tools, N2X users can verify device control-plane restart performance and scalability with concurrent, multi-protocol Graceful Restart emulation on a single port.

N2X can also characterise the impact of high availability mechanisms on service delivery by simultaneously emulating L2/3 services per port.

Scalability

The scalable performance of high availability implementations is critical to the profitable deployment of the services they enable. With the most comprehensive coverage of all routing and signalling Graceful Restart protocol extensions, MPLS fast reroute and MPLS make before break, N2X provides the most scalable emulation engine to simulate converged networks.

Faster time to insight

The Agilent N2X provides the industry's only Graceful Restart conformance test suites for IPv4 routing protocols (BGP-4, IS-IS and OSPFv2).

The Agilent N2X Graceful Restart protocol conformance suite operates within a unique Test Manager with industry-leading usability and reporting features. This provides rapid result diagnosis and problem isolation, saving engineers time and effort from developing and validating protocol implementations.

Network deployment using High Availability mechanisms is critical for building reliability into a network. By using test equipment with integrated support for High Availability technologies, users can gain confidence that these mechanisms operate correctly.

The Agilent N2X High Availability Solution simplifies and accelerates testing, saving months of testing effort.