

# Integrating Agilent's RouterTester & QA Robot

Release 4.0

*The industry's leading pair of  
router performance test tools just  
got better: they're now one!  
Agilent has merged the protocol  
performance test capabilities of  
the QA Robot with the wire-speed  
packet performance and analysis  
capabilities of RouterTester.*



**Agilent Technologies**

## Key Features

- **Ability to simulate networks of unprecedented scale**
- **Capacity to stress your router more than ever**
- **Ability to configure and execute tests quickly**

## Product Overview

The new combined RouterTester/QA Robot test environment provides the industry's most powerful, complete, and flexible test system for verifying performance of current and future-generation routers.

Choose from a range of powerful module types, including 10 Gb Ethernet, OC-48 and OC-192 POS, that simulate incredibly extensive network topologies around your system under test to perform packet performance measurements—at wire speed.

Not only does RouterTester/QA Robot version 4.0 allow extensive network simulation, it is also capable of stressing router performance beyond any other test system available today. Stress routers by dynamically adding, removing, and flapping routes and by creating more havoc than anything ever observed on the Internet.

All these features are controlled through a single easy-to-use graphical user interface. There is no easier way to determine the 'true' capabilities of your system.

## Simulate networks of unprecedented scale

Build networks containing thousands of OSPF routers and LSA advertisements, along with up to 2500 BGP-4 internal/external routers per port with millions of routes, and over 100,000 MPLS tunnels via RSVP or LDP/CR-LDP.

Use RouterTester/QA Robot to create a testing environment that truly simulates networks of unprecedented scale, (see Figure 1).

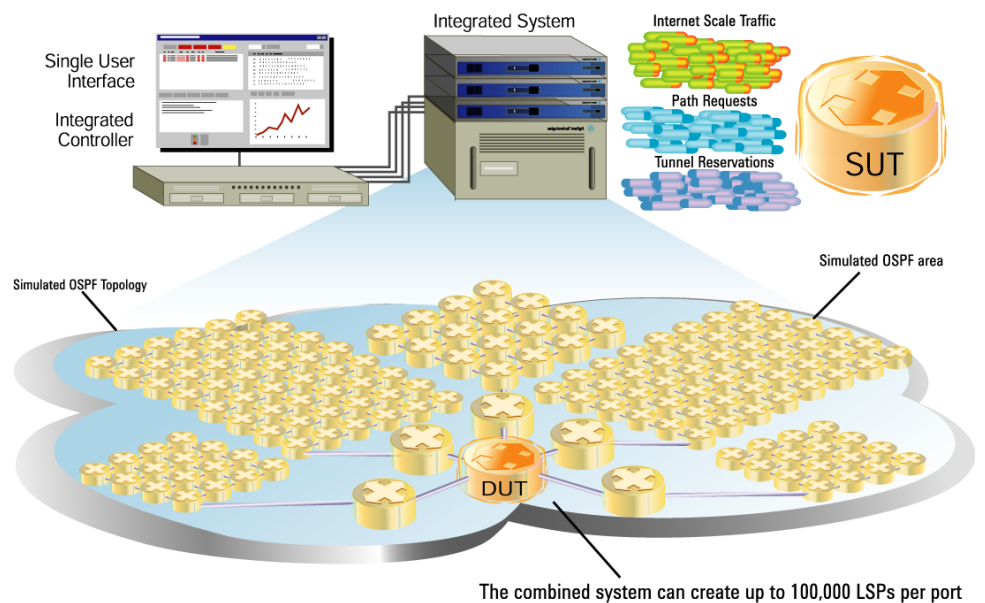


Figure 1. Example of massive topology emulation

### The most powerful and complete router test system available

Simply put, in combining RouterTester and QA Robot into one testing environment, Agilent has created the most powerful network simulation tool available. No other test system on the market today can match RouterTester/QA Robot's ability to simulate the scale and dynamic nature of the network topologies of tomorrow.

All test modules are controlled through a single graphical user interface that simplifies the test procedure. With just a few mouse clicks, thousands of routing peers and millions of routes can be advertised to the router under test and wire-speed traffic can be sent immediately over a subset of these routes.

LSP tunnels are easy with RouterTester/QA Robot. Simulate up to 2 million tunnels through the router under test!

If more network scale is what you're after, you can further expand the scale of these simulated networks by adding QA Robot protocol performance modules to dynamically test routing and MPLS signaling protocols at unprecedented rates.

### Rapid test configuration and execution

All interfaces and protocol emulation parameters for the combined system are controlled through a single graphical user interface. With it, create large network topologies and send millions of flows of IP packets to the router under test within minutes of configuration. Plus, review detailed numerical and graphical statistics to see exactly how your router performed.

To simplify router testing even further, a new product called QuickTests has been developed to run in conjunction with RouterTester/QA Robot. QuickTests are a set of scenario-focused tests that lead you step-by-step through the most complex test scenarios such as MPLS-BGP Virtual Private Networks (VPNs).

### New Customers

RouterTester/QA Robot version 4.0, our latest software release, unleashes the capabilities described here. Contact your local Agilent Sales Engineer for additional information.

### Current Customers

If you are a current RouterTester or QA Robot customer you are already most of way towards unleashing the capabilities described here. Upgrade to our latest software release, version 4.0, by contacting your local Agilent Sales Engineer.

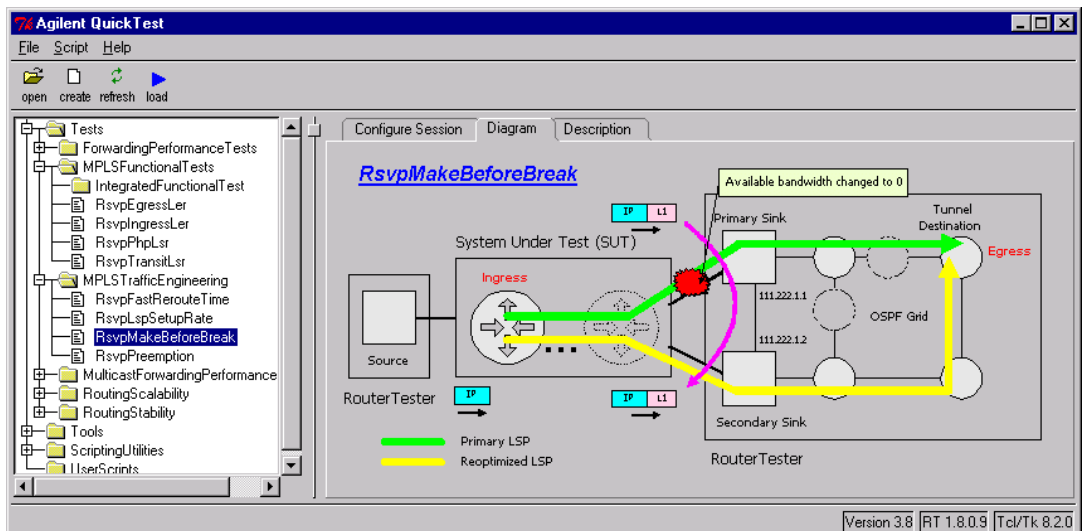


Figure 2. QuickTest automated scripting library



## Agilent IP Routing Test Solution

Agilent's IP Routing Test Solution product family includes Agilent QA Robot and Agilent RouterTester and the test software that runs on these platforms. The QA Robot provides all basic IP routing test capabilities, plus conformance, stress, and functional testing. The RouterTester is enhanced with wire-speed traffic generation that enables comprehensive performance metrics and integrated routing protocol support.

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