

Spirent TestCenter

RFC 2889 Benchmarking Test Package

Quickly obtain baselines of behavior on existing network devices and reveal the effects of newer technologies, all within a unique framework for better troubleshooting and customization of controls compared with those found in legacy solutions.

Features & Benefits

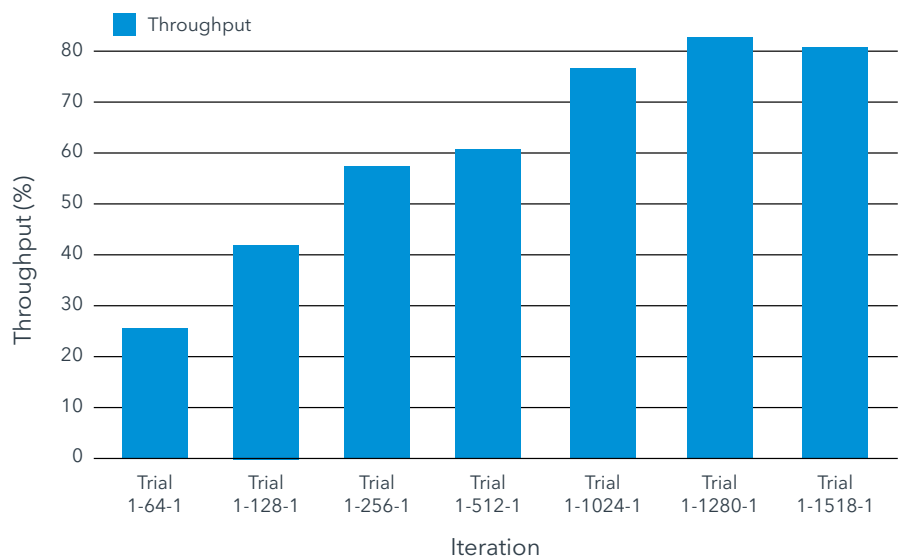
- VLANs—Run RFC 2889 tests over VLAN-based topologies
- Jumbo Frames—Test with jumbo frames and verify low-latency and wire-rate
- Support large port, full mesh tests through a million plus available streams
- Reduce time-to-test through easy configuration and fast execution
- Easy access to summary and detailed results using Spirent TestCenter™ Results Report

This package provides pre-programmed tests per IETF RFC 2889, Benchmarking Methodology for LAN Switching Devices, which is the standard for initial performance testing of Layer 2 switches.

Included in this package are test cases for the following:

- Determine device throughput, frame loss, and forwarding rates with fully meshed or other traffic configurations
- Determine how a device handles congestion
- Forward Pressure and Maximum Forwarding Rate
- Address caching capacity and Address learning rate
- Determine the behavior under error or abnormal frame conditions
- Determine Throughput and Latency when forwarding broadcast traffic

Broadcast Frame Forwarding Summary Results



About Spirent Communications

Spirent Communications (LSE: SPT) is a global leader with deep expertise and decades of experience in testing, assurance, analytics and security, serving developers, service providers, and enterprise networks.

We help bring clarity to increasingly complex technological and business challenges.

Spirent's customers have made a promise to their customers to deliver superior performance. Spirent assures that those promises are fulfilled.

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Technical Specifications

Key Tests

- Forwarding, including throughput and forwarding rates with a 10ns resolution
- Congestion control
- Address caching
- Address learning
- Error filtering
- Broadcast forwarding
- Broadcast latency
- Forwarding pressure
- Maximum forwarding rate

Traffic Control

- Ports, source and destination MAC addresses can vary with step value
- Ethernet II frame support
- Multiple 802.1p,Q VLANs per port

Test Control

- Stagger start
- Delay after transmission
- Traffic start delay
- Duration in seconds or by frame burst

Learning Parameters

- L2 learning (Ethernet sourcing)
- Repeat count
- Delay before learning
- Per test, per trial, and per frame size learning
- Learning verification
- Frame sizes same as stream or user-defined

Supported Modules & Platforms

- TPK-1001 is supported on all Spirent TestCenter Ethernet modules

Ordering Information

- RFC 2889 Benchmarking Test Package: TPK-1001