

vSwitch Benchmarking Methodology Pack

Spirent MethodologyCenter

Features

- Conforms to draft standard **Benchmarking Virtual Switches in OPNFV** (draft-vsperf-bmwg-vswitch-opnfv-00)
- Characterizes the performance of virtual switches according to NFVi stats*
- Provides visibility into underlying resource utilization
- Generates detailed yet easy-to-read reports with drill-down results
- Reports can be saved as XLS, PDF or DOCX formats
- Browser-based UI works on any popular operating system

*Coming soon in Q4 2016

Benefits

- Rapid vSwitch performance benchmarking
- Ease of use, improved productivity and user experience, preconfigured topology profiles help save time
- Compatible with Spirent TestCenter hardware and virtual ports

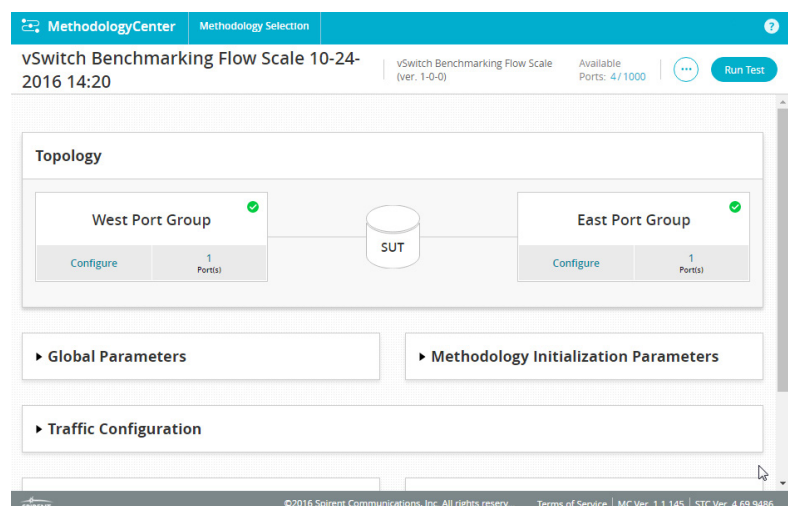
Virtual switches are an integral component of NFV infrastructure. Benchmarking their performance is critical to ensuring the success of virtualized environments. The IETF has defined a draft RFC for this purpose in <https://tools.ietf.org/html/draft-vsperf-bmwg-vswitch-opnfv-00>, detailing a set of tests specific to virtual switches.

Spirent vSwitch Benchmarking Methodology Pack implements the key tests defined in the IETF draft as a suite of methodologies available on Spirent MethodologyCenter web application. With a focus on ease-of-use, test scenarios can be configured and run from any popular browser. Executing methodologies generates detailed reports with drill-down results that are easy to interpret, or save in various formats. The methodologies require Spirent TestCenter hardware to generate and receive traffic.

Methodologies

The vSwitch Benchmarking Methodology Pack includes four methodologies:

- Throughput and Latency Profile**—determines how throughput and latency degrade as the rate is varied in the region of the DUT's maximum forwarding rate
- Performance Consistency**—determines the throughput consistency profile using RFC 2544-like testing
- Flow Scale**—varies the number of flows while running RFC 2544 throughput tests
- Initial Packet Processing Latency**—measures the minimum, average and maximum latency of the initial packet of a flow



The screenshot shows the 'MethodologyCenter' interface for 'Methodology Selection'. The main heading is 'vSwitch Benchmarking Flow Scale 10-24-2016 14:20'. Below this, there are several configuration sections:

- Topology:** A diagram showing a 'SUT' (System Under Test) connected to two port groups: 'West Port Group' and 'East Port Group'. Each group has a 'Configure' button and a '1 Ports' indicator.
- Global Parameters:** A section for setting overall test parameters.
- Methodology Initialization Parameters:** A section for configuring the specific methodology.
- Traffic Configuration:** A section for setting up the test traffic.

At the bottom of the interface, there is a footer with copyright information: '©2016 Spirent Communications, Inc. All rights reserved... Terms of Service | MC Ver. 1.1.145 | STC Ver. 4.69.9486'.

Configuration page for the vSwitch Benchmarking Flow Scale Methodology

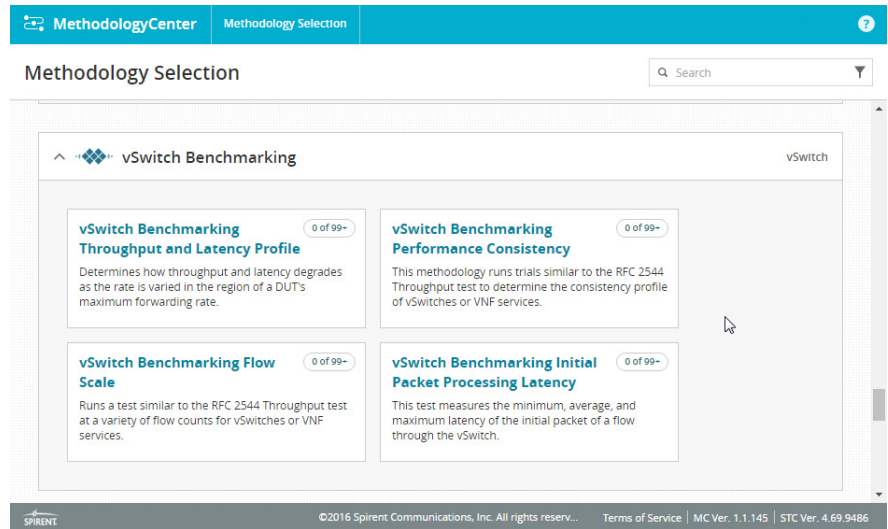
vSwitch Benchmarking Methodology Pack

Spirent MethodologyCenter



Spirent services

Spirent Global Services provides a variety of professional services, support services and education services—all focused on helping customers meet their complex testing and service assurance requirements. For more information, visit the Global Services website at www.spirent.com or contact your Spirent sales representative.



Selection Page for vSwitch Benchmarking Methodology Pack in MethodologyCenter

Technical Specifications

Description	Details
Applicable Standards	<ul style="list-style-type: none">https://tools.ietf.org/html/draft-ietf-bmwg-vswitch-opnfv
Tests Included	<ul style="list-style-type: none">vSwitch Benchmarking Throughput and Latency ProfilevSwitch Benchmarking Performance ConsistencyvSwitch Benchmarking Flow ScalevSwitch Benchmarking Initial Packet Processing Latency

Ordering information

Description	Part Number
vSwitch Performance Methodology Package - perpetual	TMV-MC-VSWITCHPERF-PACK-P
vSwitch Performance Methodology Package - 1 year	TMV-MC-VSWITCHPERF-PACK-1YR

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