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# 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

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.

## 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
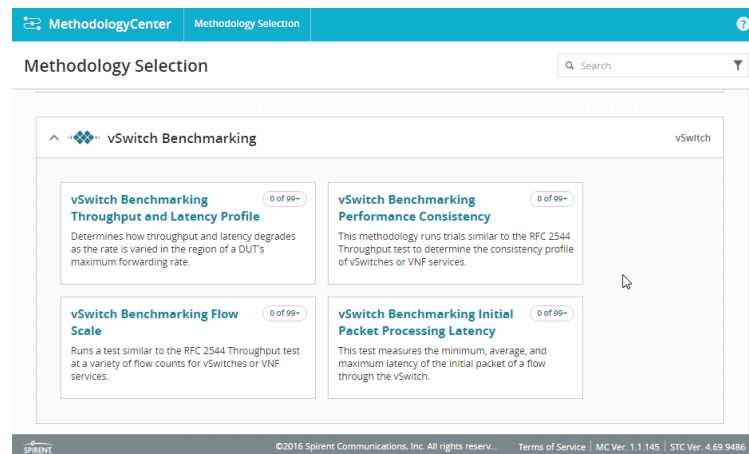
## Methodologies

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 of the initial packet of a flow
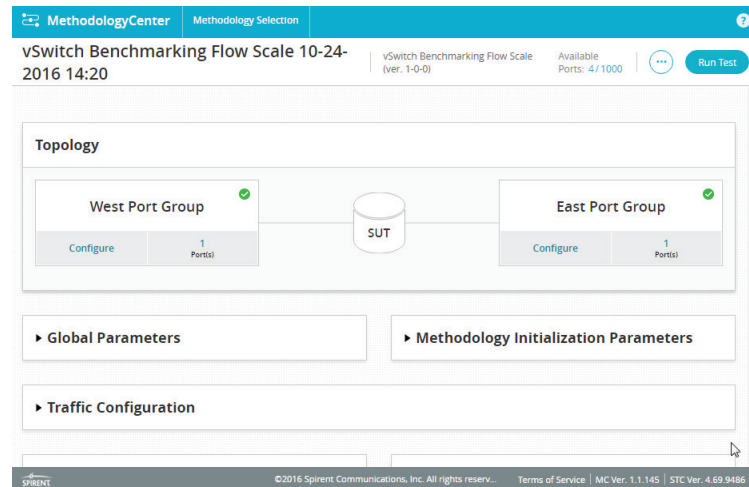


*Configuration page for the vSwitch Benchmarking Flow Scale Methodology*



*Selection Page for vSwitch Benchmarking Methodology Pack in MethodologyCenter*

# vSwitch Benchmarking Methodology Pack

**Spirent MethodologyCenter**

## 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.

For more information, visit: www.spirent.com

| Technical Specifications | |
|---|---|
| **Description** | **Details** |
| Applicable Standards | https://tools.ietf.org/html/draft-ietf-bmwg-vswitch-opnfv |
| Tests Included | • vSwitch Benchmarking Throughput and Latency Profile<br>• vSwitch Benchmarking Performance Consistency<br>• vSwitch Benchmarking Flow Scale<br>• vSwitch 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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