

# **RFC 6349 Methodology Pack**

## for Spirent MethodologyCenter

#### **Features**

- Implements all subtests of the RFC 6349 standard
  - MTU
  - Bandwidth Bottleneck
  - Round-Trip Time
  - TCP Throughput
- Works on Spirent TestCenter hardware\* or virtual ports\*\*
- Supports multiple connections and multiple port topologies
- Test with single or stacked (QinQ)
   VLANS and/or DSCP values
- Results presented in real-time and post-test, in graphical and numerical format
- Details reports include all results, graphs, configuration details, in PDF, XLS and DOCX formats
- API provided for automation purposes

## **Benefits**

- Verify bandwidth levels for subscribers
- Validate network policy
- Test realistic multi-port scenarios
- Pinpoint bottlenecks due to either bandwidth or latency
- Re-use your existing Spirent TestCenter ports
- Get to meaningful results faster
- Works with your existing Spirent TestCenter hardware or virtual ports
- \*Performance will vary depending on the specific Spirent TestCenter hardware port types used
- \*\*Performance for virtual Spirent TestCenter ports will depend on resource (CPU, RAM) allocated and also on environmental configuration

Please contact Spirent sales for details.

## RFC 6349 Methodology

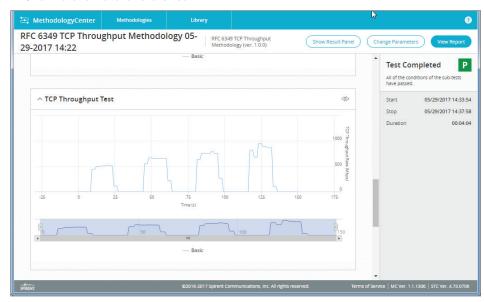
The RFC 6349 Methodology Pack for Spirent Methodology Center allows lab test engineers to easily perform the major parts of the RFC 6349 specification, including,

- Path Maximum Transmission Unit (MTU)
- Baseline Round-Trip Time (RTT)
- Bottleneck Bandwidth (BB)
- TCP Connection Throughput

Service providers are particularly interested in TCP throughput measurements to validate bandwidth levels offered to subscribers, and ensure policy enforcement. Lab engineers typically are most interested in re-creating field tests in the laboratory.

Spirent TestCenter ports, either virtual or hardware, may be used by the methodology to emulate 100% real TCP clients and servers. Test can be run with single or multiple TCP connections, each independently configured (see table below).

While tests are running, progress status and interim results are displayed in graphical format. After the test runs to completion, a detailed report is automatically generated, including an overall pass/fail results, sub-results, numerical data and graphical charts. The report can be exported and saved to PDF, DOCX or XLS formats for future reference.



TCP Connection Throughput Sample Results

## **RFC 6349 Methodology Pack**

## for Spirent MethodologyCenter



Technical	

Methodologies RFC 6349

Sub-Tests MTU

Bandwidth Bottleneck Round-Trip Time TCP Throughput

	TCF Tilloughput		
Configuration Controls		Measurements	
Test Level Controls  MTU Wait Time Bandwidth Bottleneck Wait Time RTT Wait Time RTT Timeout Throughput Wait Time Throughput Byte Loss Threshold Stop on Learning Failure	Bandwidth Bottleneck Wait Time RTT Wait Time	MTU Test	Tx Frame Size Rx Frame Size
	Bandwidth Bottleneck Test	Tx Throughput	
Per-Connection Controls	o control control	Round Trip Time Test	Round-Trip Time (Avg)
		TCP Throughput Test	Percent of Max-RWND Max TCP Window Size Connection Name Line Rate Ideal TCP Throughput Actual TCP Throughput Ideal TCP Transfer Time Actual TCP Transfer Time TCP Transfer Time Ratio Ideal TCP Transmitted Bytes Actual TCP Transmitted Bytes Retransmitted Bytes TCP Efficiency

## Ordering Information

 Description
 Part Number

 RFC 6349 Methodology Pack - perpetual
 TMV-MC-6349PACK-P

RFC 6349 Methodology Pack – 1 year

Americas 1-800-SPIRENT

TMV-MC-6349PACK-1YR

+1-800-774-7368 | sales@spirent.com

US Government & Defense

info@spirentfederal.com | spirentfederal.com

Europe and the Middle East

+44 (0) 1293 767979 | emeainfo@spirent.com

Asia and the Pacific

+86-10-8518-2539 | salesasia@spirent.com

#### **Contact Us**

For more information, call your Spirent sales representative or visit us on the web at www.spirent.com/ContactSpirent.

**UDP Port Number** 

TCP Throughput Threshold

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