

TrueSpeed™ VNF

Throughput testing as a virtual network function based on RFC 6349

The Viavi Solutions™ TrueSpeed VNF provides network operators and enterprise users with a repeatable, standards-based test methodology to resolve complaints about poor network performance faster than ever before.

The transition of enterprise applications to the cloud, the proliferation of high-speed LTE mobile data from limitless apps, and the relentless growth of over-the-top (OTT) streaming video in consumer broadband combine to increase the strain on network data capacity. All the while, customer expectations of high-quality data services continue to ratchet up, resulting in unacceptable customer churn when those expectations are not met.

With TrueSpeed VNF, operators can leverage their installed base of commercial-off-the-shelf (COTS) server resources to quickly evaluate the customer experience of their network and provide actionable information to resolve any problems. Based on the IETF RFC 6349 TCP throughput testing methodology, TrueSpeed VNF performance tests serve as a neutral 3rd-party evaluation of network quality. Operating as a virtual network function (VNF) in conjunction with VMware hypervisors, Red Hat Linux, and x86 compute resources, TrueSpeed VNF deploys quickly and tests reliably in all parts of an operator or enterprise network.

Key Benefits

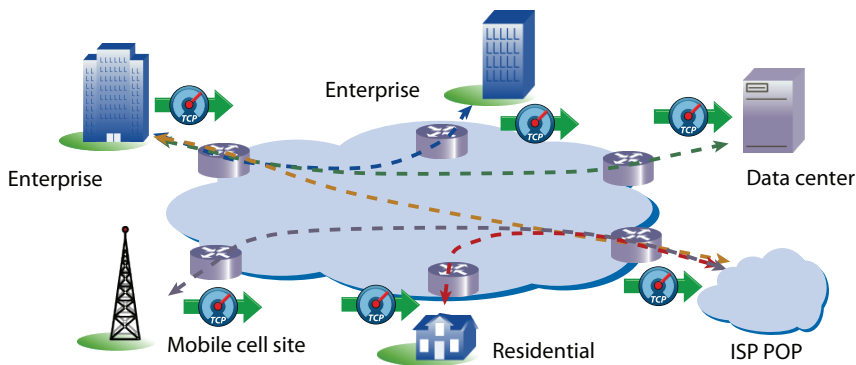
- Resolve customer complaints faster
- Increase customer satisfaction with Ethernet and IP services
- Divert technician truck rolls with helpdesk-based remote testing
- Reduce technician coordination for RFC 6349-compliant TrueSpeed tests

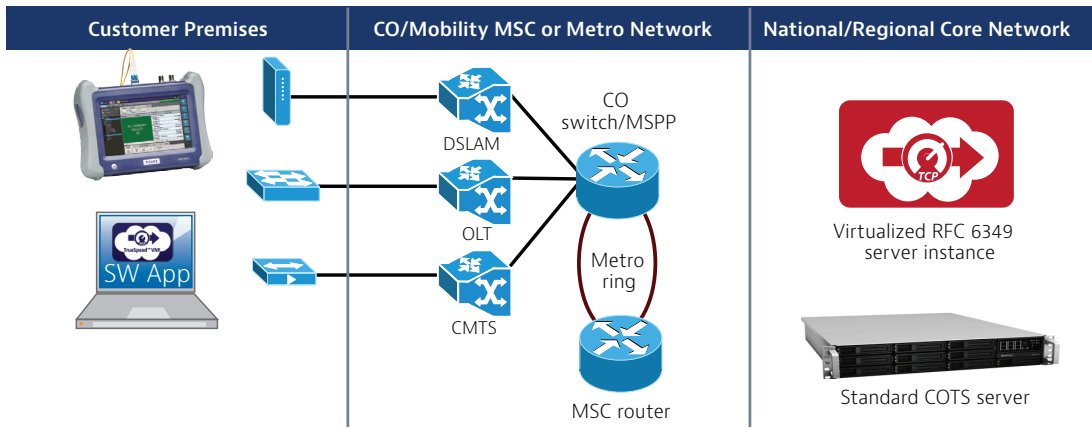
Key Features

- Standards-based, repeatable TCP throughput test
- TCP throughput test results in Mbps as well as TCP efficiency and buffer delay metrics
- Compatible with commercial, high-volume x86-based servers

Applications

- Business services and residential customer-care testing
- Mobility backhaul qualification and troubleshooting
- Residential ISP installation testing
- Metro and core network mesh testing

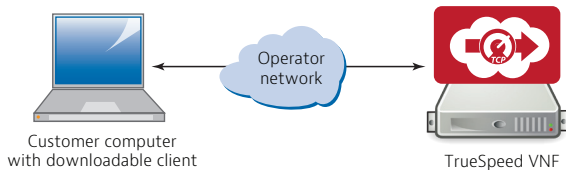




TrueSpeed VNF — architecture, software, and hardware elements

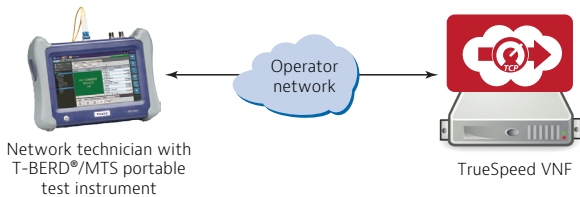
Use Case: Customer-Care Evaluation of Network Performance Complaint

Helpdesk technicians use TrueSpeed VNF to reliably evaluate the customer experience of network performance without needing to dispatch a field technician or dedicated test equipment. An easy-to-use, web-based interface lets the helpdesk technician configure all test parameters remotely so that the customer just has click on a customer-specific URL and press Start. Detailed, easy-to-read results and interpretations indicate key RFC 6349 metrics such as TCP throughput, TCP efficiency, and buffer delay.



Use Case: Far-End Support for Technician-Driven Service Activation and Troubleshooting

Field network technicians use TrueSpeed VNF as the far-end endpoint for their RFC 6349-compliant TrueSpeed tests. Testing to a TrueSpeed VNF instance co-located at an Internet point of presence or data center eliminates the need for dedicated test equipment and coordination requirements with a far-end technician. With TrueSpeed VNF qualifying TCP throughput performance, service activation is faster, easier, and less expensive than ever before.



Use Case: Metro and Core Network TCP Mesh Testing

Using two TrueSpeed VNF instances, network technicians responsible for metro and core networks test TCP performance across their area of responsibility to ensure high-quality service delivery. TrueSpeed VNF automates the evaluation of TCP performance between various internet points of presence (POP), data centers, and network handoffs.

Ordering Information

Description	Part Number
Software image	TVNF-REV1.X.X-ISO
TrueSpeed VNF 1.0 — client-to-server software and base license	TVNF-REV1.X.X-CLT-SVR
TrueSpeed VNF 1.0 — server-to-server software and base license	TVNF-REV1.X.X-SVR-SVR
Test license: 500 MB and 5 tests	TVNF-REV1.X.X-500M-5TEST
Test license: 1 GB and 10 tests	TVNF-REV1.X.X-1G-10TEST
Test license: 2 GB and 10 tests	TVNF-REV1.X.X-2G-10TEST
Test license: 5 additional concurrent tests	TVNF-REV1.X.X-5TEST
Test license: 1 GB additional server capacity	TVNF-REV1.X.X-1G
1 year additional maintenance	TVNF-REV1.x.x-MAINT
Installation	TVNF-REV1.x.x-INST



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