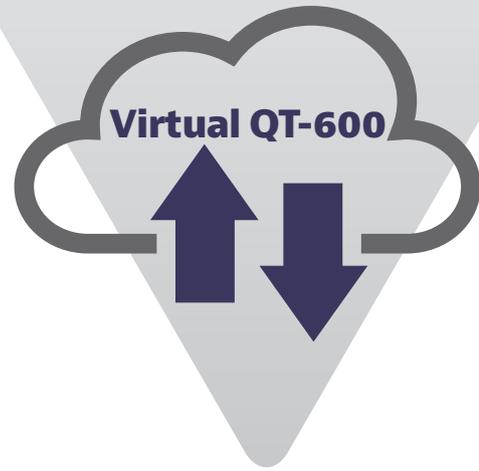


EtherASSURE™ Virtual QT-600

A scalable, VNF addition to the NetComplete®
EtherASSURE service assurance portfolio



The Viavi Solutions® Virtual QT-600 (VQT) is a Linux-based software agent that delivers test, troubleshooting, and performance monitoring. Based on the industry-leading capabilities of the purpose-built hardware version of the QT-600-10, it is deployable on industry-standard x86 server platforms.

The VQT shines in cloud environments for flexible and economical rollouts of assurance services. Customers can now deploy and scale the virtual network function (VNF) solution up/down based on varying network or capacity scenarios, deploying the proper-sized virtual test platform as needed. Support for Linux and kernel-based virtual machines (KVMs) enables the use of common off the shelf (COTS), rack-mounted x86 servers, edge vCPEs, and core routers/switches that are increasingly being deployed with x86 server complexes to support network function virtualization (NFV).

The VQT uses the same EtherASSURE user interface and follows the same workflow as the QT-600-10 so operations personnel can seamlessly transition to the VQT without retraining. Like the QT-600-10, the VQT supports service activation tests like RFC2544 and Y.1564. It also supports performance monitoring tests such as TWAMP for L3 and Y.1731 for Layer 2 service assurance. It also supports troubleshooting tests such as ping, ping reply, and loopback.

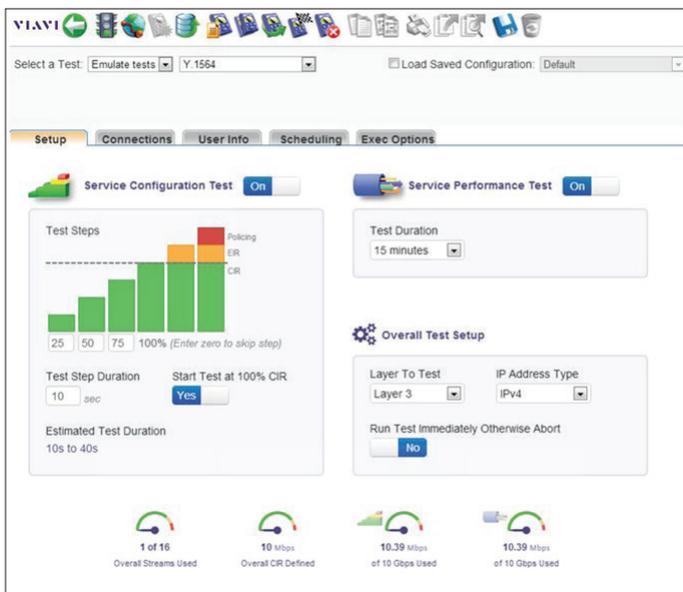
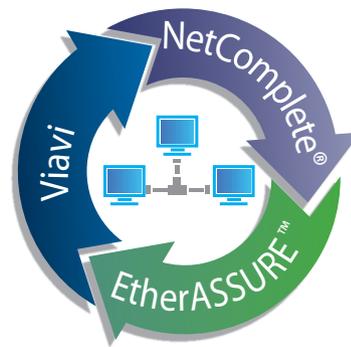
Key Benefits

- Deploys on industry-standard commodity hardware
- Provides standards-based service-activation testing, troubleshooting, and performance monitoring
- Ready for SDN/NFV-based deployments for investment protection as needs evolve
- Scales with your assurance solution and network capacity by adding additional instances of VQT

Applications

- Centralized service verification and assurance for:
 - Mobile Ethernet backhaul in 3G, 4G, and LTE networks
 - Ethernet business service and cloud connectivity for point-to-point and point-to-multipoint architectures
- Fast, efficient, and reliable service activation for multiple services in parallel based on RFC 2544, Y.1564
- In-service performance monitoring and SLA verification via TWAMP or Y.1731
- Point-to-point testing between virtualized remote test sites including eNodeBs

Developed for carrier-class networks worldwide, the VQT can emulate end-user equipment and actively generate traffic that simulates actual customer traffic patterns. Providers can test and validate connectivity, using ping for example, while verifying service turn-up with RFC 2544 and Y.1564 throughput, latency, frame loss, and back-to-back/committed burst size tests. It can also support 24x7 performance monitoring for SLA management.



EtherASSURE SAMComplete™ window



EtherASSURE TWAMP window

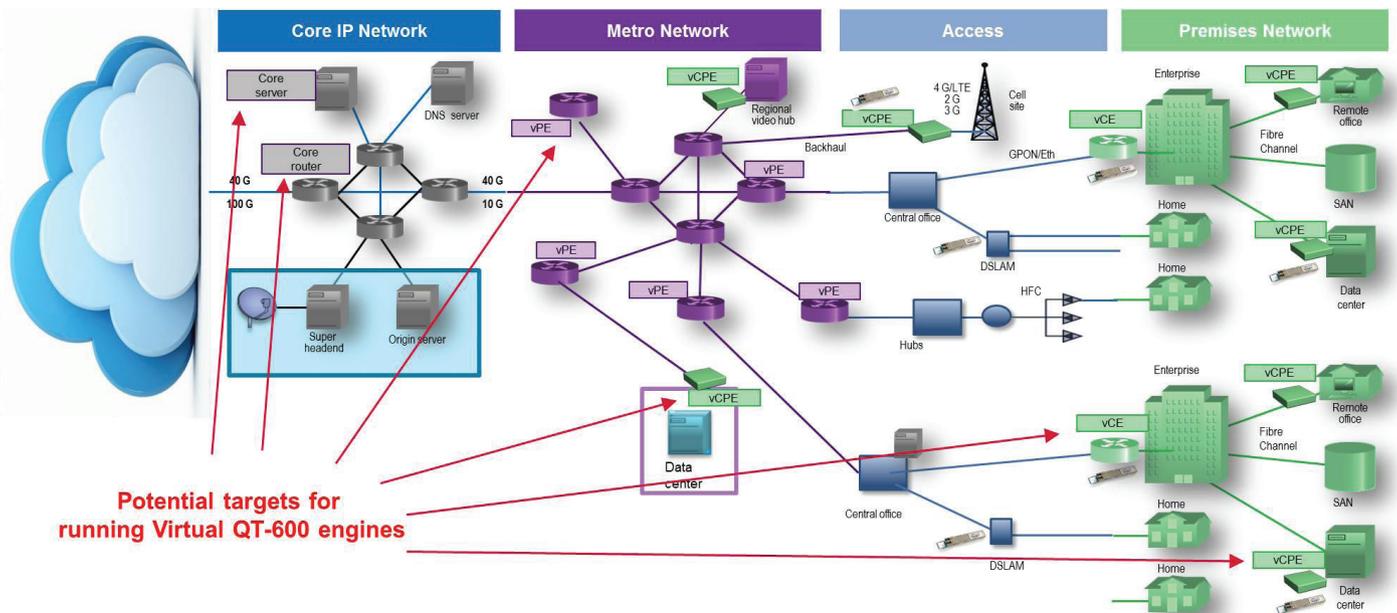
Simplified, Error-Proof Testing

The VQT seamlessly integrates with the EtherASSURE test and troubleshooting OSS so providers can create and manage centralized tests to ensure that standardized, consistent test procedures are followed, reducing user errors. Through its scheduling capability, operators can run repeatable test campaigns at specific times and intervals to assess network and service-level quality. Test results can be automatically e-mailed and can also serve as a baseline for future comparison over time. Its customer-mapping function lets operators create and run tests against customer services rather than against specific VQT probes for a simpler, more intuitive testing process with fewer errors. The VQT and hardware-based QT-600 share a consistent workflow and intuitive UI provided by the EtherASSURE OSS.

Distributed Test and PM Capability

The efficient footprint and processing requirements of the VQT enable edge deployments, at the access demarcation or in the metro/core network, depending on the carrier use case wherever a suitable x86 compute environment is located. Unlike the hardware QT-600-10 that is typically centrally located at an aggregation location, the VQT can be effectively deployed in a number of locations. It augments the EtherASSURE QT-600 and the Viavi intelligent SFP portfolio to provide a comprehensive solution. The devices are fully interoperable with each other and can be simultaneously supported by the same EtherASSURE OSS.

The VQT supports 4-8 simultaneous tests for RFC2544/Y.1564 tests and 100-500 flows for TWAMP/Y.1731 performance monitoring.



Specifications

Test and PM	
Test Types	
RFC 2544	
Y.1564 (SAMComplete)	
Loopback	
Ping	
Ping reply	
TWAMP PM	
Y.1731 PM	
Requirements	
Number of virtual CPUs	Minimum 1 core, 2 cores recommended
Memory	Minimum 512 MB, 1 GB recommended
Disk space	Minimum 512 MB, 2 GB recommended

Ordering Information

Description	Part Number
Virtual QT-600 base license	VQT600
Virtual QT-600 metro Ethernet base license (4 tests, 8 streams): RFC 2544, Y.1564, ping, etc.	VQT-MEBS
Virtual QT-600 8 test upgrade (8 tests, 8 streams)	VQT-8-TEST
Virtual QT-600 performance monitoring license (100 PM flows)	VQT-PMGEN
Virtual QT-600 500 flow upgrade (500 PM flows)	VQT-500-FLOW



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To reach the Viavi office nearest you,
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