

Measure end user quality of
experience (QoE) in real time
using virtual probes

OVERVIEW

While service providers specify service-level agreements (SLAs) for their services to their customers at Layer 2 and 3, the quality of experience (QoE) that end users experience in reality could be drastically different. SAMTEST L4 – L7 Performance Benchmarking helps enterprises and service providers to quickly measure the quality of experience for end users for TCP, HTTP and VoIP services.

SOLUTION

SAMTEST TCP Benchmarking helps to quickly evaluate the quality of user experience. This uses the testing methodology defined in IETF RFC 6349, provides accurate measurements of TCP metrics, such as throughput, round trip time and optimal window size. The tool emulates hundreds multiple simultaneous sessions to simulate the real time test scenarios.

SAMTEST HTTP Benchmarking helps to quickly benchmark the performance of HTTP service and server application. It measures the key parameters of HTTP application like download time and download rate which helps in tuning the performance of the network and the server applications to give better service to end customers. The tool emulates hundreds multiple simultaneous sessions to simulate the real time test scenarios.

SAMTEST VoIP Benchmarking helps to quickly evaluate the Voice of IP quality of experience. It provides important statistics of SIP signaling and RTP media like response, connect, hang-up delays, packet loss, packet mis-order and jitter. It also provides quality of user experience using R-factor and MOS values defined in ITU-T G.107. The tool emulates hundreds multiple simultaneous calls to simulate the real time test scenarios.

These tests can be done using **SAMTEST vProbes**, which can be deployed in any commercial off the shelf x86-based servers.

KEY HIGHLIGHTS

- Supports industry standard hypervisors including KVM and VMware vSphere*
- Supports traffic generation and analysis up to 10Gbps
- Available as VM

NAME	DESCRIPTION	SPECIFICATION	METRICS
TCP Benchmarking	TCP performance tests through emulation of stateful TCP sessions	IETF RFC 6349	Path MTU, Baseline RTT, Throughput with different window sizes or different no. of sessions, Re-transmission count, Transfer time Ratio, Efficiency, Buffer Delay Percentage, Optimal window size and session
HTTP Benchmarking	HTTP performance test through full emulation of client and server	HTTP 1.1	Response time, Download time, Download rate, Web Page rendering time
VoIP Benchmarking	VoIP performance tests through emulation of VoIP calls in real-time	SIP, SDP, RTP, ITU-T G.107	Call Connect Time, Hang-up Time, Packet Loss, Jitter, R-factor, MOS

SYSTEM REQUIREMENTS FOR vPROBE	
vCPU	4 (2.20 GHz, 15M Cache)
Memory	2 GB
Disk Storage	2 GB
Supported NIC	Intel SR-IOV enabled

* In roadmap

About Verityx Technologies

Verityx Technologies is a provider of innovative testing, automation and monitoring solutions for network service providers, cloud service providers, data centers, Enterprise IT and network equipment vendors. Verityx offers solutions for network testing, performance monitoring and equipment testing applications for technologies such as Carrier Ethernet, IP, Cloud, SDN, NFV and Smart Networks.

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