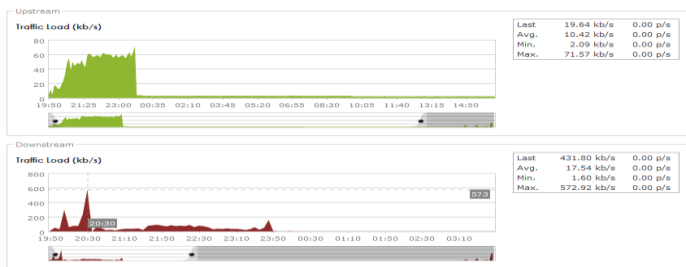


Net.Audit SLA monitoring



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To: QoS and SLA monitoring in enterprises
From: ALBEDO Telecom
Subject: Why Testers and Routers are short of Capabilities

Date: July 2013
Contact: pca@albedotelecom.com

Dear Colleague,

There are many reasons why Testers and Routers are not the right tools to measure the QoS, SLA, and Performance once a network is in service. Most Testers and all Routers are really designed to measure the performance of packet networks. GbE testers are designed for either installation or development testing but are not suited to measuring the constantly changing conditions in a live, dynamic network environment. Testers typically take a 'Snap Shot, when what is really required is a streaming video over a period of time. Routers are typically very good at routing traffic and whilst they all have clever monitoring capability this is not their prime function and often the accuracy of information provided by such products is affected at times of high network load.

We believe Net.Audit is the right tool and this is why:

Feature	Routers	Testers	ALBEDO Net.Audit	Benefits
End-to-End	NO	NO	YES	Net.Audit can measure Quality and Performance from any point of the Network, beyond NATs to local addresses
In-Service	YES	NO	YES	In Ethernet / IP out-of-service measurements of QoS are not valid, because traffic conditions change continuously
Long Term	YES	NO	YES	IP results are correlated i.e. most Mondays are similar and different to Sundays. A week often is a min test period
Technology	Ping	Synthetic Traffic	OWAMP	Ping is a low priority, testers are too intrusive, while Net.Audit is based on OWAMP (RFC 4656) one way test
One-Way	NO	NO	YES	Up & downstream measurements is a must because IP is asymmetric. It is useless round-trip or loop-back!
Synchronized	NO	NO	YES	A tool GPS synchronized has an accuracy better than < 1ms
Results	Browser	Screen	Browser, CSV, email	Browser results allow remote monitoring, CSV permit customized reports, while email is fine for alerts & alarms
Multipoint	YES	NO	YES	If IP network are multipoint, why hand-held instruments are still executing point-to-point tests?
Independent	NO	YES	YES	It is not fair a router SLA application to be used to measure the quality of the routers of the same manufacturer
WAN emulation	NO	NO	YES	Only Net.Storm can generate real traffic impairments to simulate Internet and find out the limits of the Network

Albedo provides unique Test, Measurement and Monitoring tools designed to satisfy customer demand. We take our lead from the customers in the market place and any feedback will receive serious consideration.