



C/ Joan d'Austria, 112
08018 Barcelona - Spain
www.telecom.albedo.biz

To: T&M experts
From: JM Caballero (Pepe)
Subject: QoS and BW measurements in GbE / IP / MPLS

Date: May 2011
Answer to: pca@albedo.biz

Dear All,

There is a good number of reasons to state that Testers and Routers are not the right tools to measure the QoS, SLA, and Performance of Ethernet / IP networks because they assume wrong testing criteria, and use inadequate methodology.

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

Look and Compare, and you will find out this solution is very unique in the Test & Measurement niche. However, if you find something missing, or want to adapt something please tell us.

We can do it for you!

Jose M Caballero – ALBEDO Telecom (Barcelona)