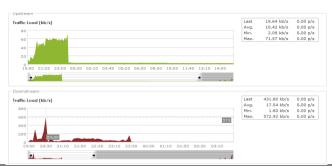
Net.Audit FUNCTIONAL SPECS





C/ Joan d'Austria, 112 08018 - Barcelona - Spain www.albedotelecom.com

To: Customers and Partners

From: JM Caballero

Subject: To be used as Tender Specifications

Date: Jan 2012

Answer to: pca@albedo.biz

Net.Audit functional specifications

Feature	How
QoS	IPTD: IP Packet Transfer Delay (RFC 2678 One way delay)
Measurements	IPDV: IP Packet Delay Variation (one-way)
	PLR: IP Packet Loss Ratio (one-way)
	IPER: IP Packet Error Ratio (one-way)
	PRR: IP Packet Reordering Ratio (one-way)
	Network Availability (upstream / downstream)
Bandwidth	Schedule upstream and downstream occupancy (kbit/s)
Measurements	Occupations ascending and descending high, low and middle (kbit/s)
SLA	Programmable IP layer QoS objectives
	Programmable IP layer Bandwidth objectives
Results	Graphs and statistics
	Separate upstream and downstream results
	Web browser application
	Pass / Fail indication
	Mail and csv reports
	Long term measurements and results: daily / weekly / monthly / year
Technology	Based on RFC 4656 One-Way Active Measurement Protocol (OWAMP)
	• Min. Overhead: 0.008 kbit/s (test packet size: 64 Bytes, 1 packet/min.)
	Max. Overhead: 12.144 kbit/s (test packet size: 1,518 Bytes, 1 packet/sec.)
Management	Centralized via SSH
	Web browser
	Remote Configuration
	Remote setup/modification of Quality objectives
Synchronization	• GPS
	NTP
Test Setup	Programmable test packet frequency from 1 second to 1 minute
	Programmable test packet size from 64 to 1518 bytes
	Programmable test packet DSCP
Mode	In-service verification
	Based on active probes
Operation	End-to-end measurements (beyond NATs)
	Multiple (and parallel) measurements between probes
Topology	Point to Point
	Point to Multipoint
	Multipoint to Multipoint
Architecture	LAN, MAN, WAN support
	VLAN support
	Compatible with MPLS based e-Line, E-LAN, e-Three