



S U C C E S S S T O R Y

To: Distributors and Customers
From: Marketing and Communications
Subject: Escuela Politécnica Nacional (EPN) Quito-Ecuador

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Answer to:
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The Polytechnic Nacional University (EPN) of Quito (Ecuador) was willing to install a new lab that should be capable to configure, simulate and measure parameters related to the new synchronization protocols.

According to Carlos Usbeck, General Manager of Complementos-e, the laboratory should support all the architectonic standards that are going to be set the pace of the telecom industry during the next decade:

1. Next Generation Ethernet/IP packet network
2. Ethernet and Synchronous Ethernet (SyncE) at the PHY layer
3. PTP master clock and PTP slave clocks

The users of the Lab were going to be professors and PhD students willing to investigate new telecom technologies. Therefore it was necessary not only to have proper telecom nodes, but also to reproduce real traffic conditions and this was the reason why it was necessary to integrate a WAN emulator. In this context a large variety of scenarios were demanded:

1. PTP configurable architecture to master/slave roles
2. Tools to verification the Quality of the Synchronization plane
3. WAN emulation to generate impairments to find the limits of the synchronization strength
4. Packet capture and protocol analysis of any synchronization stream
5. Multistream stress tests at the transmission network

The complete laboratory was built by Complementos-e using ALBEDO solutions such as Net.Time GM (a PTP master clock), Net.Time S (PTP slave clock), Net.Storm (WAN emulator), Net.Hunter (packet capture device) and a Ether.Genius (Ethernet and PTP tester). One of the key reasons for such decision was that a few manufacturers are able to supply all the bits and pieces that permit to satisfy such a complex architecture.

About us. ALBEDO Telecom is an International manufacturer of telecom synchronization nodes, testers and networking devices. We help R&D laboratories, Mobile and Telecom operators to install optical and electrical infrastructures that support any kind of applications based on voice, video and data. ALBEDO's core expertise range from LTE, 3G, PTP, SyncE, GbE, 10GbE, E1/T1, Jitter/Wander, Cabling measurements, QoS and SLA technologies implemented in WAN emulators, Taps, Testers, Clocks and Systems. ALBEDO has direct operations and representatives in more than 82 countries.

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