



Wireless Backhaul – Toward an LTE Converged Network

Challenge: In a highly advanced and competitive mobile market, the largest operator in the country is on a constant race to offer the most advanced services, in a cost-effective and timely manner. The challenge consists of building a 3G/LTE-ready backhaul while leveraging its all-IP nature to support the operator's business goals to expand beyond its mobile offering and to provide Layer 2 and 3 services to business customers.



The Operator

ECI's customer is the leading operator in an EMEA country. With millions of subscribers, the company faces stiff competition to address the country's high-ARPU customers. The operator focus is on data communications and advanced services.

Solution

To support the operator's need for increased packet-based communication, ECI is deploying the 1Net Wireless Backhaul solution. Addressing this operator's specific needs and required services, ECI is deploying a pure packet network, with end-to-end MPLS. To do so effectively, ECI is integrating IP/MPLS and MPLS-TP, including gateway functionality, timing synchronization over Ethernet links (SyncE) as required by 3G and LTE networks, as well as circuit emulation services to 2G backhaul over the unified IP/MPLS network.



The 1Net Wireless Backhaul Solution

The 1Net Wireless Backhaul solution is a highly integrated breadth of offerings, spanning the entire backhaul. The main concept behind this simple proposition is that no two networks are alike. Although operators are facing similar pain points and challenges, each and every one of them have individual requirements based on their existing networks, their path for growth, and the specific dynamics in their markets (regulatory, business, demographics).

With 1Net, ECI takes on a technology-agnostic consultative approach for a tailored & flexible network migration scheme, be a gradual evolution to packet, leveraging and preserving TDM infrastructure for investment protection or the building of a pure-packet infrastructure today.

Addressing this Operator's Pain Points

To address this operator's pain points, only a robust and future-proof converged network would be able to carry the new emerging services expected. By deploying the 9000 Family, ECI partnered with the operator to build an end-to-end MPLS network, from access to the metro core. This network supports the operator's advanced 3G/LTE services, and is a converged infrastructure supporting also business services.

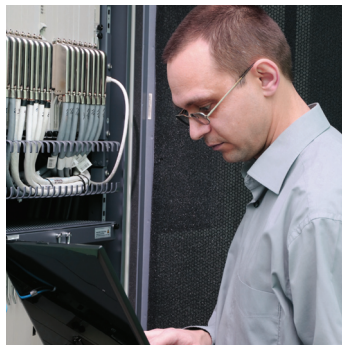
One special focus was reduced operational expenditures. By managing the combined IP/MPLS and MPLS-TP through ECI's LightSoft® Network Management System, the operator simplified day-to-day operations, reducing opex in the process.

The operator will deploy the BG9300 for the access rings, and the SR9700/9600 at the aggregation level, providing also the gateway functionally between IP/MPLS at the metro core and MPLS-TP used at the access. The entire network is managed end-to-end by the LightSoft unified and multilayer management system, enabling end-to-end management of CES services, L2 VPN services and L3 VPN services, including provisioning, fault localization, and network health monitoring.

With ECI's technology-agnostic consultative approach, the customer enjoys great flexibility to choose the best and most cost efficient way for mobile backhauling and to create new services wherever needed and increase bandwidth whenever needed.

By keeping it simple and addressing this operator's specific pain points, we achieved the ultimate results of lower operational expenditures, without jeopardizing the quick evolution to next-generation networks and services.





1Net

1Net defines ECI's total focus on facilitating our customers' optimal transition to Next-Generation Networks, through the unique combination of innovative and multi-functional network equipment, fully integrated solutions and all-around services



www.ecitele.com

ECI Headquarters
Tel: +972 3926 6555
Fax: +972 3928 7100

EMEA
Tel: +44 1256 388000
Fax: +44 1256 388143

RoAPAC
Tel: +65 65051960
Fax: +65 65051999

CIS
Tel: +972 3926 8548
Fax: +972 3926 6452

Americas
Tel: +1 954 772 3070
Fax: +1 954 351 4404

India (Mumbai)
Tel: +91 22 6715 5555
Fax: +91 22 6675 8973

