ARICENT™

Reduce R&D expenses by up to 40% with Aricent's IP backhaul solution

Deliver High-Quality, Cost-Effective IP Backhaul Solutions

Challenges
Vendors of Carrier Ethernet-based mobile backhaul equipment need to support multiple legacy technologies and also ensure stringent bounds on critical parameters such as RAN delay, loss rate, synchronization, and availability.

Solution
Aricent's solution is based on an extensive feature set enabled by ISS-Metro software, and supported by complete product lifecycle services which enables vendors deliver high quality IP Backhaul solutions.

Benefits
Aricent's IP Backhaul solutions help minimize time-to-market for new products while significantly reducing development, testing, integration and sustenance costs.

The joint solution simplifies development complexity and risk for base station OEMs, allowing them to focus on their core competencies and improve their competitive position in the market

Overview

A rapid increase in data traffic on mobile networks over the last few years has resulted in steep increases in backhaul expenses for mobile operators. Leased line OPEX is the single largest expense for service providers, and with LTE deployments, which would typically require three or four times the capacity available at NodeBs today, these costs can be expected to increase significantly. Thus, as revenue per bit is decreasing rapidly, operators are actively defining their backhaul migration strategies to reduce leased line expenses.

Operators are looking for high quality Carrier Ethernet based backhaul solutions which address the following requirements:

1. *Single Integrated Platform:* A single integrated platform which supports the transport of multiple legacy backhaul technologies such as TDM (SONET/SDH/PDH) and ATM over a Carrier Ethernet network.

2. *High Performance:* The mobile backhaul network transports real-time traffic such as voice, necessitating strict adherence to Key Performance Indicators (KPIs) such as backhaul delay budget and packet loss rate.

3. *Synchronization:* Clock synchronization is a key requirement for cellular networks for the smooth operation of mobile devices, both during normal usage as well as during handoffs.

4. *Availability:* The solution must be capable of the "five nines" availability requirement expected of carrier networking equipment.

Aricent's IP Backhaul Solution

Aricent's IP Backhaul solution is based on its ISS-Metro product and turnkey services which span the entire product lifecycle. Aricent's solutions leverage deep domain expertise in mobile backhaul technologies and can be used to build complete systems for mobile backhaul solutions, such as IP RAN Aggregation Devices, Data Offload Gateways, Metro Ethernet Switches, etc.

ISS-Metro provides a comprehensive feature-set that includes:

Basic Layer 2 - VLAN, RTSP, MTSP, LACP, 802.1X, IGMP and MLD snooping, IGMP proxy

Advanced Layer 2 - Provider Bridging, EOAM, ECFM, Y.1731, multiple instance L2 VPN

QoS - ACL, rate limit, storm control, 802.1p, Diffserv, queuing, policing, shaping

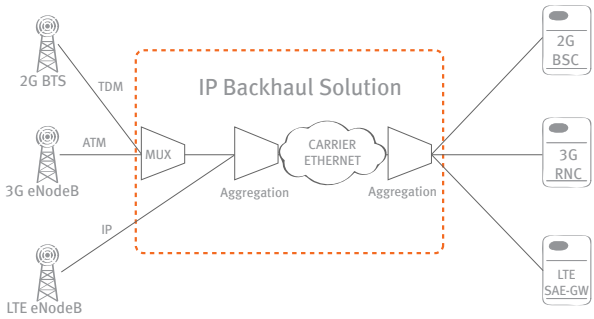
VPN - MPLS/VPLS with PWE3

System - Mirroring, DHCP, configuration save and restore, software upgrade

Management - CLI, Telnet, SSH, WebUI, HTPP, SSL, SNMP(v3), RADIUS, Tacacs+

Layer 3 Options - IPv4 and IPv6 unicast and multicast routing

Interface Management - Generic interfaces to introduce support for non-Ethernet technologies such as PON, FTTU, etc.



Modular Systems - Multi-board system management, high availability

Silicon Support - Includes support for Fulcrum, Broadcom, Marvell and Wintegra platforms

Control Processor Support - Processor platforms supported include x86, ARM, MIPS and PPC

Product Lifecycle Services

Product Strategy and Design – Product architecture, prototyping and evaluation, product roadmap definition, multi-core architecture consulting.

Product Development - Software development and optimization on both the signaling and media planes, network EMS and applications, complete system development services.

Testing and Certification - Complete functionality testing, interoperability testing as well as network testing, automation and performance benchmarking supported by Aricent's Carrier Ethernet IOT.

Cost Reduction Re-engineering – These services not only help equipment vendors migrate from proprietary to modular platforms, but also port their code base to different platforms.

Sustenance Practices – Aricent has extensive experience in sustaining products with offerings including software maintenance and release management, bug fixing, feature enhancement, and EOL product ownership.

Benefits

Proven and Scalable Software Solution: Aricent's ISS is an industry-leading Layer 2 software package with the flexibility to realize multiple products and applications.

Optmized R&D Expenditure: Aricent's IP Backhaul solution can reduce R&D expenses by up to 40%.

Support Expertise: Aricent offers an unmatched support infrastructure for ISS with a dedicated single-window helpdesk interface to customers with well defined SLAs and 24X7 coverage.

Single Stop Source of Telecom Expertise: Aricent is a one-stop source for telecom expertise in wireless, wireline, datacom and convergence technologies.

Flexible Business Models: Aricent offers multiple flexible engagement models such as time and material, dedicated development facility and price-performance based models, tailored to meet customers' specific needs.

Next Steps

To learn more about Aricent's IP Backhaul solution, contact your sales representative.You can also find more information at: http://www.aricent.com/LTE

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