Ethernet over SONET Solutions



Leverage the Lucent Advantage™ to combine the reliability and reach of SONET with the affordability and simplicity of Ethernet

The benefits of Ethernet over SONET for your business:

- Leverages existing TDM infrastructure and fiber investment
- Lowers the total cost of ownership of your network
- Enhances the resiliency of data services and improves network utilization
- Facilitates evolution to carrier-grade Ethernet services
- Creates pull-through opportunities for other services and revenue streams

The benefits of Ethernet over SONET for your enterprise customers:

- Helps reduce equipment costs
- Reduces network complexity and helps lower IT staff and training requirements
- Increases security and reliability
- Supports bandwidth-intensive applications
- Provides flexible Quality of Service (QoS) options for differentiated services

Lucent Technologies
Bell Labs Innovations

Ethernet over SONET Solutions



Ethernet over SONET Solutions leverage your existing SONET network investments to enable a seamless evolution to Ethernet services.

Ethernet over SONET Solutions with the Lucent Advantage™ help you meet the increasing need for bandwidth, security and service-level management driven by LAN-based applications, including broadband Internet access, Virtual Private Networks (VPNs), e-commerce, and LAN interconnections.

Accommodating the proliferation of LAN-based applications and resulting bandwidth and service management demands on today's networks can be daunting.

Taking advantage of new opportunities while simultaneously offering traditional voice and private line services requires a solution that leverages your existing network while incrementally enabling you to offer new Ethernet services.

Ethernet over SONET Solutions that leverage the Lucent Advantage™ are dually optimized for TDM and Ethernet services. They offer reliable and efficient transport of circuit- and packet-based traffic, while leveraging your existing TDM infrastructure to provide a seamless evolution to Ethernet. The window of opportunity to capitalize on Ethernet over SONET — with the Lucent Advantage — is now. Our comprehensive portfolio offers end-to-end optical solutions for today's metro and long-haul networks that are coupled with leading software and services to deliver EOS Services quickly and profitably.

The Lucent Advantage™ is built into products that help lower your total cost of network ownership while delivering higher levels of performance and value. The Metropolis® DMX portfolio and LambdaUnite® MultiService Switch (MSS) can deliver both TDM and Ethernet services using a single platform that can improve operational efficiency, compared to maintaining multiple networks. You can support growth and profitability objectives in the existing circuit-switched market while opening the door to new revenue-generating opportunities through value-added Ethernet services.

What enterprises want...

Enterprises are looking for ways to manage their increasing thirst for bandwidth driven by LAN-based applications, including high speed Internet access, intranet connectivity between distant sites, e-commerce, partner extranets and telecommuting. LANs predominantly run on Ethernet, and Enterprise customers want services that leverage their network.

Lucent Ethernet over SONET Solutions allow you to offer customer-demanded switched or private line services at 10/100Mbps or Gigabit Ethernet interface rates. Bandwidth can be added in increments of STS-1 (~50Mbps) for private line services, or increments of 1Mbps for packet ring services.

What enterprises need...

Like you, your enterprise customers are focused on lowering costs and increasing profitability. Compared to traditional SONET networks, Ethernet over SONET Solutions can dramatically decrease your customers' capital and operating expenses and quickly improve enterprise return on investment. They can eliminate the barriers between LANs and WANs by supporting native Ethernet switching, seamlessly supporting geographically diverse corporate networks, and reduce network cost and complexity by avoiding separate, costly Ethernet conversion devices. In addition to Ethernet, the Metropolis® DMX portfolio and LambdaUnite® MSS allow you to offer traditional voice and data services including DS1/DS3, ATM, and Frame Relay transport (external switches) for additional revenue opportunities.



Why Ethernet over SONET: It enables you to leverage your existing investment in SONET networks while enabling a seamless evolution to Ethernet services.

How Ethernet over SONET pays off for you...

Ethernet over SONET Solutions open up new revenue streams and profitability for your business, while preserving much of the investment you've already made in your network. You'll be able to offer a complete portfolio of Ethernet services, such as Ethernet Private Line, Transparent LAN Services and High Speed Internet Access.

The Metropolis® DMX portfolio and LambdaUnite® MSS also support voice and private line services. DS1/DS3 and OC-N traffic are supported without separate overlay networks to transport the circuit- and packet-based traffic. This greatly reduces equipment and management expense. Implementing Ethernet over SONET Solutions to complement or replace legacy technologies can leverage the affordability, simplicity and efficiency of Ethernet along with the reliability and scalability of SONET.

The Navis® Optical Management System helps to improve network efficiency and significantly reduce operating expenses. The Ethernet Manager module, for example, helps reduce costs by automating Ethernet management and enabling point-and-click Ethernet provisioning.

We have products, software and services that enable you to offer Ethernet over SONET Services quickly and profitably. EoS Solutions that deliver the Lucent Advantage consist of:

Metropolis® DMX Access Multiplexer

Compact, highly scalable hybrid multiservice over SONET multiplexer and cross-connect designed to bridge the bandwidth gap between LANs and core backbone networks.

Metropolis® DMX*press* Access Multiplexer

An optical "last mile" platform for provisioning bandwidth to the customer premises equipment or metro network edge with the smallest footprint, low-cost, line-rate Ethernet over SONET access plus TDM services enabling 2.5 Gbps of drop capacity in a 3.5-inch element.

Metropolis® DMX*tend* Access Multiplexer

Delivers high-capacity TDM and Ethernet services to the edge of your OC-3/12 network. This compact platform offers the flexibility to combine electrical and optical interfaces with cost-effective Ethernet services and industry-leading DS1 density.

Metropolis® DMX*plore*

Ultra-compact SONET multiplexer designed for fiber-to-the-business and fiber-to-the-curb applications. Its small size and low power consumption make it suitable for delivering low density DS-1s to small- and medium-sized customers.

LambdaUnite® MultiService Switch (MSS)

Facilitates high-capacity TDM and Ethernet service to metro/regional hubs. It can lower initial and ongoing equipment expenses by limiting additional cross-connect and multiplexing systems, and by supporting a comprehensive set of standard ring and mesh capabilities.

Navis® Optical Management System

Provides a complete metro optical solution in a single management system, by integrating the management of transport (SONET/Optical) and Ethernet data services.

Lucent Worldwide Services (LWS)

Experience, expertise and tools that can make any network more efficient, more secure and more cost-effective by providing world-class planning, integration, deployment, operations and maintenance services.

Leverage the Lucent Advantage™ with your enterprise customers

Ethernet over SONET Solutions that leverage the Lucent Advantage™ provide the flexibility and feature set that your Enterprise customers need. Lucent has the products that can help you lower your total cost of network ownership. And with the capabilities of Lucent Worldwide Services, we can design, implement and integrate Ethernet over SONET Solutions into your network, helping you generate revenue more quickly. LWS is able to utilize network design, security and optimization tools developed by Bell Labs to support faster, better decisions. Talk to your Lucent representative about Ethernet over SONET Solutions that offer the Lucent Advantage™, and offer your customers the most cost-effective and easily deployed hybrid Ethernet/TDM solutions available today.

To learn more about Ethernet over SONET Solutions with the Lucent Advantage™, please contact your sales representative, or call 1-888-426-2252. You can also visit our web site at http://www.lucent.com/solutions/eos

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