Metropolis® ADM MultiService Mux



Transition your metro network with a cost-effective multiservice platform. Offer next-generation services over reliable SDH networks.

Benefits

- Offers a flexible multiservice platform for economical delivery of both circuit and packet based traffic.
- Increases revenue potential by enabling a wide variety of services with improved flexibility and reliability.
- Enables operational savings due to low power consumption and small footprint.
- Supports enhanced Ethernet services with flexible bandwidth assignment as part of the WaveStar® TransLAN™ Card solution.
- Offers seamless management integration with Navis™ Optical Management Solution.

Lucent Technologies
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Offers a flexible multiservice platform

Metropolis® ADM MultiService Mux is a platform that supports an array of metro needs. It is capable of providing a variety of Ethernet, PDH and SDH services, and fits in different network layers to help support a cost-effective, scalable solution optimized for STM-4, STM-16 and STM-64 line speeds. Offered with either a Universal or Compact shelf option, the product can be configured to fit applications ranging from the metro core to metro access.

An innovative product based on the solid foundation of the WaveStar® ADM 16/1 platform, it offers reliability, standards compliance, and interoperability right from the start. Metropolis® ADM helps define the new model for metro transport networking.

Increases revenue potential

Metropolis® ADM is part of the Lucent Technologies optical networking portfolio, and offers seamless migration from TDM to multiservice networks. Its capabilities can increase your revenue-generating opportunities by helping you offer a more diverse portfolio of billable services, such as:

- PDH leased line access (E1 up to DS3)
- SDH leased line access (STM-1o/e up to STM-4)
- Ethernet services:
  - Ethernet Private Line
  - Private LAN services
  - Virtual Private LAN services

These service help support the following user applications:

- Access for voice and broadband business data
- Fast Ethernet (10/100BASE-T) and GbE LAN interconnects and Virtual LANs
- ISP router interconnects
- Internet Access

Metropolis® ADM also helps enable DSLAM aggregation and established network evolution, the foundation for xDSL and other emerging services. It offers additional revenue-generating opportunities through efficient transport of ATM via concatenated leased line services, and easy integration between SONET and SDH networks.

Typical network applications for the Metropolis® ADM are:

- **Central office** – to groom and hand off traffic to TDM and ATM switches and DWDM. With GbE trunking support, data can be handed off to core routers in a cost-effective way
- **Hub office** – to interconnect and terminate high-speed rings and groom traffic for efficient bandwidth use
- **Access feeder** – to close and groom multiple STM-1/4/16 access rings and cost effectively trunk Ethernet, Fast Ethernet, and Gigabit Ethernet traffic
- **Office parks** – to offer scalability and cost effectiveness in a wide variety of requested access services such as voice and data interconnection

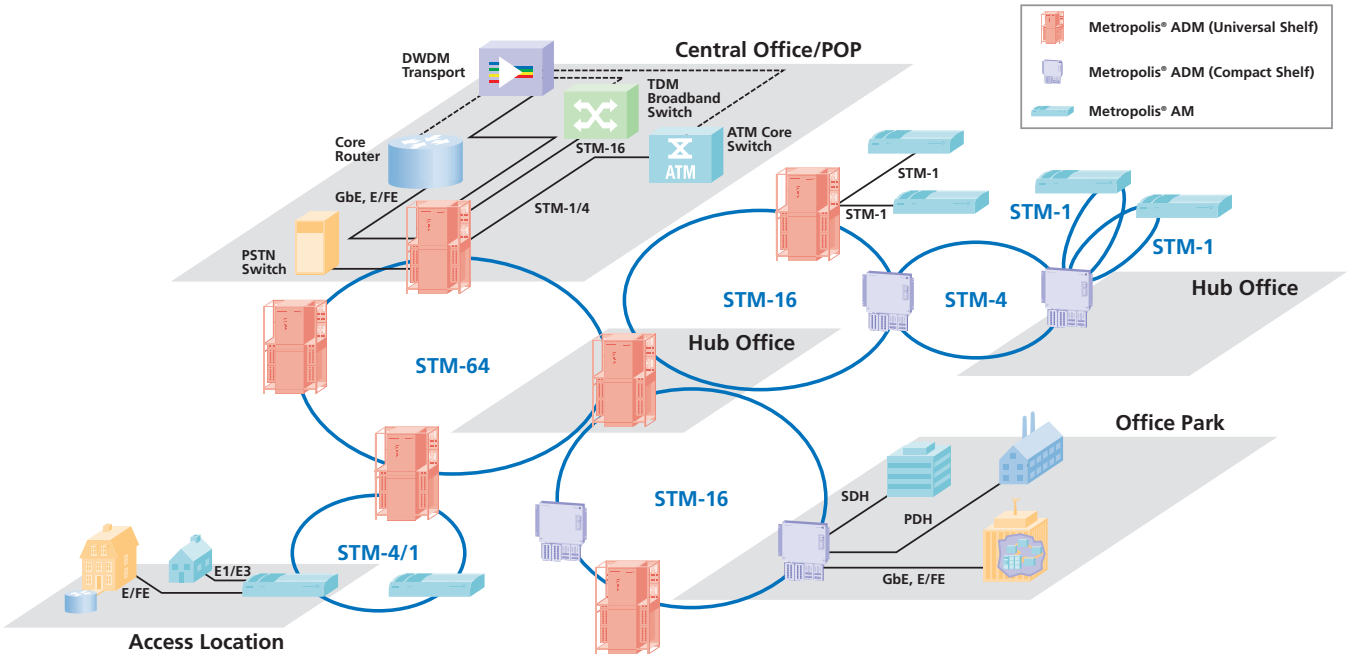
Enables operational savings

Metropolis® ADM can reduce your expenses in a number of ways. It offers enhanced bandwidth utilization by introducing Ethernet into the metropolitan network. Ethernet and optical networking layers are combined into one stable network platform, and help reduce your need to invest in overlay networks. It can optimize space savings, efficiency and flexibility by design – fitting on a single 300mm deep shelf. It provides full front access with a unique cabling design, and is designed to minimize power consumption.

The Metropolis® ADM can help simplify your metro network architecture and operations. It shares hardware and software assets between multiplexers, resulting in cross-feature availability and circuit pack compatibility, which can save on spare parts and maintenance costs.



Metropolis® ADM (Compact and Universal shelf) combines the strengths of Ethernet and SDH into a flexible, high-density network element designed with full front accessibility.



Metropolis® ADM offers multiple services for different types of network applications, and helps simplify your network architecture and management.

Supports enhanced Ethernet (E/FE/GbE) services

Metropolis® ADM offers enhanced Ethernet transport services. The VLAN trunking capabilities (IEEE 802.1Q VLAN tagging) help reduce the number of routers and its interfaces (TDM/Ethernet) needed in your network.

Lucent Technologies WaveStar® TransLAN™ Card helps cost-effectively provide Ethernet interconnectivity to end customers and ISP equipment while maintaining the reliability, interoperability and manageability of SDH networking. The Ethernet frames are mapped in SDH with GFP (ITU G.7041) mapping, and transported via virtually concatenated VC-12s, VC-3s or VC-4s in the SDH network.

The WaveStar® TransLAN™ Card also supports LCAS (ITU G.7042), which can enable smooth addition and deletion of virtually concatenated bandwidth: improving network efficiency and offering efficient protection schemes. And, it helps support a variety of Layer 2 switching functions, including:

- Transparent repeater mode for point-to-point connectivity
- LAN interconnect mode with dedicated bandwidth for single end-users, for point-to-point and point-to-multipoint topologies
- LAN-VPN mode, where multiple end-users share the same SDH WAN port(s) and bandwidth
- Provisionable IEEE 802.1p QoS
- IEEE 802.1Q VLAN Tagging for traffic segregation and VLAN trunking

Offers seamless management integration

Metropolis® ADM is supported by the Lucent Technologies Navis™ Optical Management Solution portfolio, which can enable common network management with existing Lucent optical equipment. It also helps network operators offer service assurance via fast path provisioning, path management and real-time services, such as Virtual Private Network and leased line offerings.

Your "multiservice power platform"

Metropolis® ADM can enhance your network's potential. Providing revenue opportunities by offering new billable services, it helps your business grow in a scalable, cost-effective way. The reduced power and space requirements, plus its spare parts commonality within the product platform, can help reduce your operating and maintenance costs. Metropolis® ADM gives you the flexibility to help support Ethernet, Fast Ethernet and Gigabit Ethernet transport services and transform your metro network to meet ever-shifting market demands.

Features

Offers cost-effective and scalable solution for STM-64, STM-16 and STM-4 wideband applications

Supports metro needs with a single hardware platform

- Wideband multiplexer (STM-64/16/4 to E1 drop) with true low order cross connect capabilities
- Large variety of services including, PDH, SDH, Ethernet
- Wide field of application
- Full Navis™ Optical Management Solution support

Enables significant operational expense savings opportunities

Scalable platform:

- Commonality with circuit packs and software
- Optimize the network architecture with flexibility of two types of shelves
- Spare part savings
- Cross feature availability
- 300mm deep shelves, with full front access and unique cabling design
- Low power consumption

Can add data services to your existing SDH network

- WaveStar® TransLAN™ Card technology: provides E/FE/GbE together with virtual concatenation, Rapid Spanning Tree Protocol, LCAS and VLAN trunking

Offers SDH-SONET interworking

CE Certified

To learn more about our comprehensive portfolio, please contact your Lucent Technologies Sales Representative or call +800 11223333 (Europe wide Freephone) or +32 70 22 20 52.

Visit our web site at http://www.lucent.com.

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