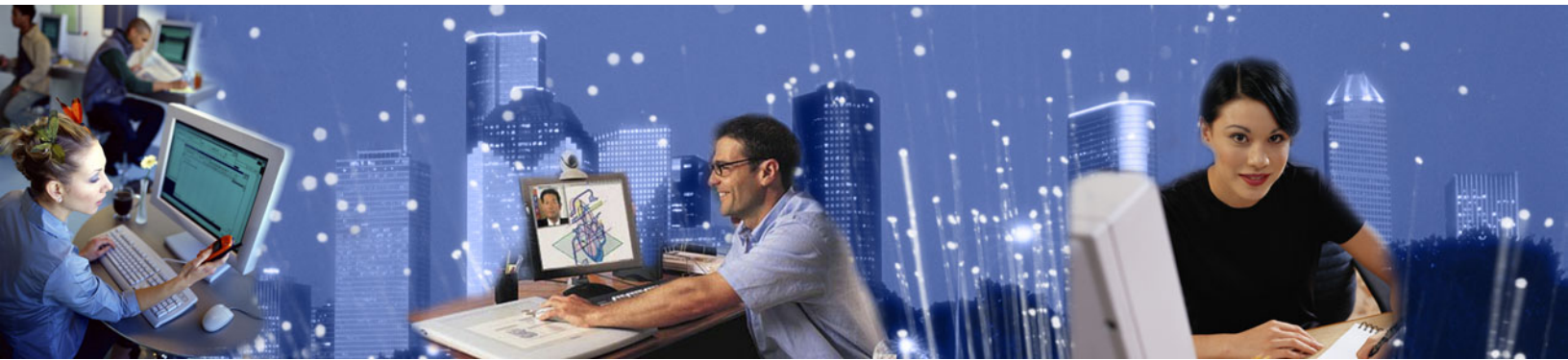


Metropolis® Wavelength Extension Solution



Boost fiber capacity using low-cost passive DWDM.
Readily integrates with existing environments
and is easy to maintain.

Benefits

- Delivers client signals cost-effectively
- Provides flexibility to support a wide range of applications
- Offers energy, space and operational savings
- Increases efficiency with scalable and flexible options
- Simplifies compatibility with bit-transparency
- Supports precise billing to match bandwidth changes
- Offers reliability and affordability

Lucent Technologies
Bell Labs Innovations



Delivers client signals cost-effectively

The Metropolis® Wavelength Extension Solution is an innovative portfolio of products that helps you cost-effectively meet increased demand and relieve fiber exhaustion in metro access and metro core optical networks. Plug and play setup with these seamless, self-configuring products can help you provide service to customers quickly and easily. They take advantage of passive DWDM technology and are easy to deploy – without the need for complex software downloads, database backups, or provisioning. Together, they provide transparent transport of signals including: FICON, ESCON, Fibre Channel, Video, Gigabit Ethernet (GbE), 155Mbps, 622Mbps, 2.5G, 10G, and 10G Ethernet on an ITU-T grid-compliant line.

Provides flexibility to support a wide range of applications

The Metropolis® Wavelength Extension Solution consists of:

- Metropolis® Multi-Wavelength Optical Amplifier (OA)
- Metropolis® Multi-Rate Transponder
- Metropolis® Passive OADM System
- Metropolis® Passive WDM System

These products can be configured to suit your specific applications requirements. They help provide operational efficiency and lower maintenance costs. For example, the Metropolis® Multi-Rate Transponder can be provisioned remotely from one data rate to another using network management software. Your customer receives a dedicated lambda that can be provisioned to their bit rate without the need to change any hardware or software.

The Metropolis® Passive WDM System can condense up to 32 wavelengths onto a single fiber, offering an excellent cost-effective answer for fiber exhaust in your metro and access network. The Metropolis® Passive OADM System helps provide optical add/drop capability to your metro access network, and the Metropolis® Multi-Wavelength OA can extend these multi-wavelength spans up to 130km. This combination of products offers a low-cost solution that can save floor space, increase operational efficiency, add network reliability and reduce maintenance costs.

Offers energy, space and operational savings

For metro access, you need a solution that is highly reliable and flexible – at a price that is cost-competitive. This includes ongoing operations costs in addition to your initial investment.

The Metropolis® Wavelength Extension Solution helps you use energy and floor space more efficiently. A single Metropolis® Multi-Rate Transponder can hold 12 transponders per shelf, and each one can support a wide array of data/optical interfaces. Because a single transponder can support multiple interfaces, it can help reduce your spare parts inventory. The Metropolis® Wavelength Extension Solution components using passive technology help reduce costs by simplifying operations and reducing energy.

Increases efficiency with scalable and flexible options

The Metropolis® Wavelength Extension Solution can be configured to suit many different applications in the mobility, enterprise, access, and metro space. This solution presents you with flexibility to select a suitable configuration for your applications – allowing you to turn up service and grow your system according to ever-changing customer needs. Highly scalable, it also offers:

- 8- or 16-channel unidirectional/bidirectional passive DWDM systems
- 32-channel unidirectional passive DWDM systems
- One-, two- or four-channel OADM units
- Stand-alone multi-wavelength or single-wavelength optical amplifiers
- Stand-alone transponders

The Metropolis® Wavelength Extension Solution is designed with your network evolution in mind. Lucent passive DWDM, OADM, and OAs support 2.5G and 10G, which are predominant in metro networks today.

Simplifies compatibility with bit-transparency

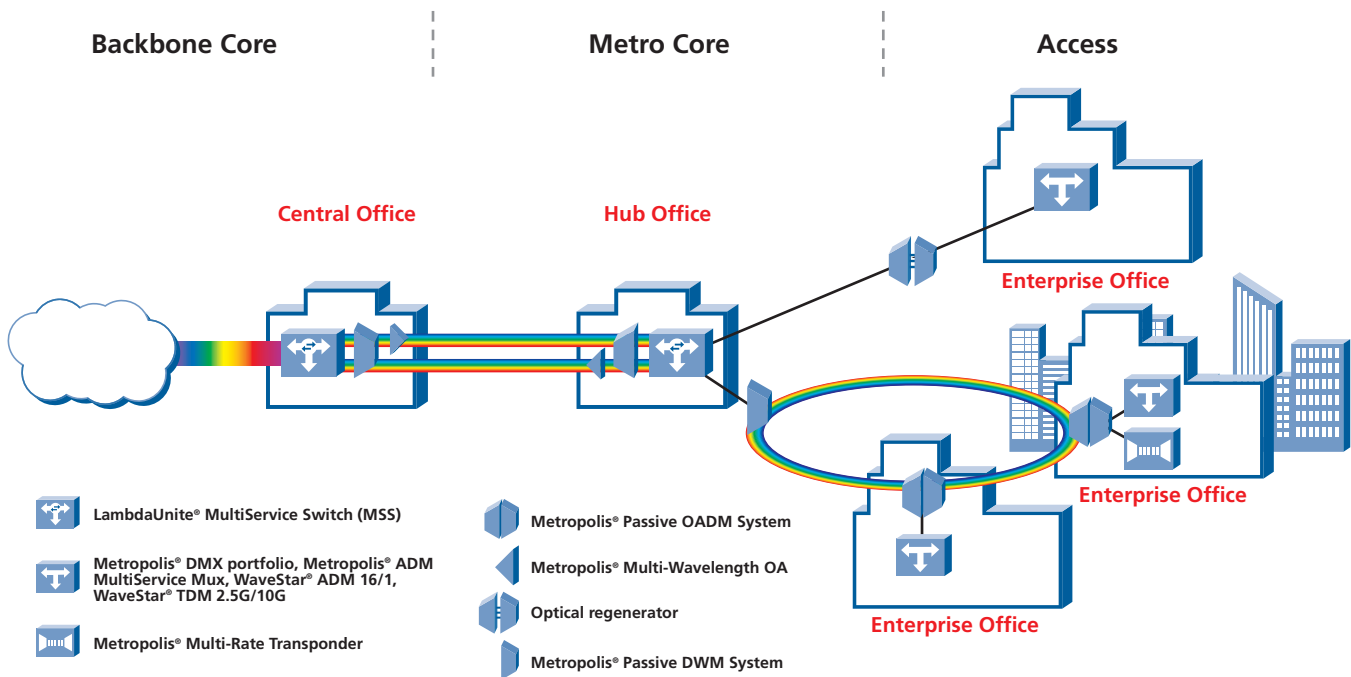
This solution offers bit-transparent lambdas at a fraction of metro-managed DWDM systems costs. The ITU-T grid-compatible lambdas for DWDM and OADM systems, and the SONET/DWDM standards-compliant features, facilitates the ability of these products to interwork with a variety of vendor's equipment.

Supports precise billing to match bandwidth changes

The Metropolis® Wavelength Extension Solution allows you to alter bandwidth easily. You can remotely change a customer's bandwidth while in-service when the provided bandwidth is exceeded, or at your customer's request. The network management system tracks these changes so you can bill customers based on their exact bandwidth usage.

Offers reliability and affordability

This portfolio of products is field-proven – with systems installed in a variety of configurations around the world. The Metropolis® Wavelength Extension Solution has demonstrated its high level of reliability. Use this portfolio of innovative, modular products to help you cost-effectively address metro access, fiber exhaustion, and span extension applications in your optical metro and metro core networks, and to efficiently turn up services and grow your network as your needs change.



The Metropolis® Wavelength Extension Solution can address your metro, access and core network needs, including: span extension in single and multi-wavelength applications, regeneration, wavelength service delivery to the customer premise, and economic relief of bandwidth exhaust.

The Lucent advantage...

With the Metropolis® Wavelength Extension Solution, you have the power and flexibility to serve many different applications reliably and cost-effectively. Its seamless, self-configuring design lets you scale your system using the latest Lucent Technologies products. Plus, the Metropolis® Wavelength Extension Solution gives you the added advantages of:

- Bit-transparency
- Energy and space savings
- Reduced maintenance and operational costs
- Low initial investment
- Equipment investment protection
- Standard-compliant design
- Cost-effective solution for metro fiber exhaust

To learn more about our comprehensive portfolio, please contact your Lucent Technologies Sales Representative or call 1-888-426-2252.

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

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