

WDM for Research and Education Networks



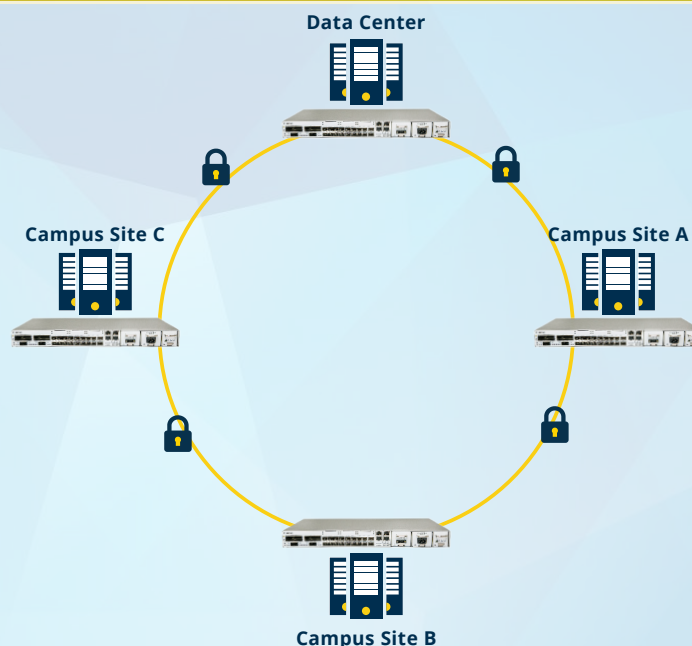
Challenges

- ◆ Connect remote facilities with high capacity network
- ◆ Connect multiple fragmented campus buildings into one unified network
- ◆ High level data security to protect sensitive data
- ◆ Build backbone that is easy to grow
- ◆ Simple setup and maintenance enabling self maintenance and low OPEX
- ◆ Cost-saving equipment
- ◆ Network management system for complete control



Solution

- ◆ High capacity backbone network with DWDM product suite
- ◆ Flexible mix of services including Ethernet, Fibre Channel and video protocols
- ◆ Layer-1 encryption with fully transparent data transport
- ◆ Pay-as-you-grow scalable architecture
- ◆ Quick to deploy and operate
- ◆ Low power consumption and 1U compact form factor guarantee low OPEX
- ◆ Ultra-low latency for fast, reliable data transfer
- ◆ EMS/NMS - for easy configuration, management, and monitoring



PL-2000T



800G integrated optical transport platform

- ◆ Offers scalable 8 x 100G services network
- ◆ Integrated solution with mux/demux and optical amplifiers
- ◆ Encryption per each 100Gb Eth service
- ◆ Supported services - 100Gb Eth, OTU4

PL-2000M



200G multi-protocol coherent muxponder solution

- ◆ Build network with 200G capacity per wavelength
- ◆ Flexible aggregation of mix of services
- ◆ Encryption per service or per uplink
- ◆ Supported services - 10G/40G/100G Eth, STM-64/OC-192, 8G/16G/32G FC, OTU2/2e/3/4

PL-2000AD



200G ADM for long haul

- ◆ Dual 100G links to bolster existing OTN/DWDM infrastructure
- ◆ Supports 100G protected ring and point-to-point topologies
- ◆ Features OTN cross-connect sub-100G services into dual 100G uplink
- ◆ Encryption per service or per uplink
- ◆ Supported services - 10G/40G/100G Eth, STM-64/OC-192, 8G/16G/32G FC, OTU2/2e/3/4

PL-2000ADS



200G multi-protocol, multi-rate solution for short haul

- ◆ Muxponder/transponder
- ◆ Encryption per service or per uplink
- ◆ Supported services - 10G/40G/100G Eth, STM-64/OC-192, 8G/16G/32G FC, OTU2/2e/3/4

PL-1000TE-Crypto



Multi-protocol multi-rate low latency solution

- ◆ Up to 8 multi-rate transponders
- ◆ Encryption per transponder
- ◆ Supported services - GbE, 10G/40Gb Eth, 2G/4G/8G/10G/16G FC