

# Alien Wavelength Solution



## Challenges

- ◆ Growth is restricted due to maximized fiber utilization
- ◆ Fiber capacity is used up by low rate services
- ◆ Increased demands on bandwidth, requiring quick and effective capacity expansion
- ◆ Unique service transmission needs require fast resolution
- ◆ Need for backbone security with Layer-1 encryption

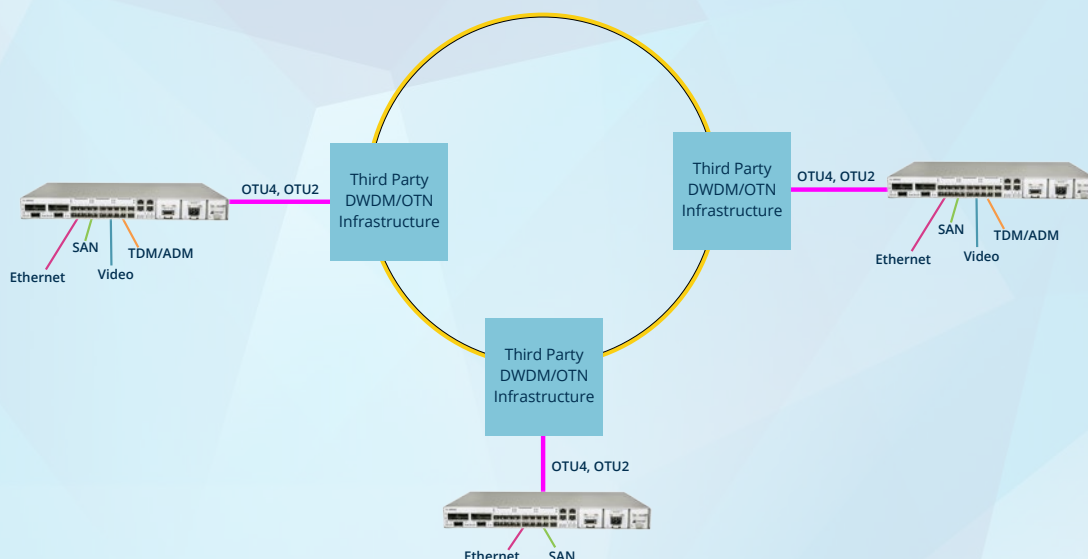


## Solution

- ◆ Build high capacity fiber optic network with compact DWDM product suite
- ◆ Increase wavelength capacity by 20 times or more with muxponder
- ◆ Add 200G of new services quickly and cost effectively
- ◆ Offer your clients a flexible mix of services including 1/4/8/16/32G FC, and GbE/10/40/100Gb Ethernet
- ◆ Encrypt Layer-1 infrastructure to ensure secure connectivity for all data
- ◆ Vendor-agnostic and integrates with any third party WDM/OTN supplier
- ◆ Easy to deploy and operate
- ◆ FAST ROI – Guaranteed!



## Network Diagram



◆ GbE/10/40/100Gb Eth  
Fast Ethernet

◆ 1/2/4/8/16/32G FC,  
FICON

◆ 3G HD-SDI, HD-SDI,  
SD-SDI, DVB-ASI

◆ SONET, SDH/PDH,  
STM-1/4/16/64, OC-3/12/48/192

# Expand Bandwidth in Existing Backbone

## ↑ Advantages

- ◆ Expands existing OTN/DWDM infrastructure capacity by up to 400G per wavelength
- ◆ Aggregates mix of services into 100G/200/400G uplink
- ◆ APS and OTN level protection for point-to-point and ring topologies
- ◆ OTN cross-connect sub-100G services into dual 100G uplink
- ◆ Encryption per service or per uplink
- ◆ Supported services - GbE/10/25/40/100/400Gb Ethernet, 1/2/4/8/16/32G FC/FICON, OTU2/2e/3/4, STM-1/4/16/64 / OC-3/12/48/192, DVB-ASI, SD-SDI, HD-SDI, 3G-SDI

## 🎯 Products for This Solution



**PL-4000M**  
400G muxponder



**PL-4000T**  
4x400G  
transponder/muxponder



**PL-4000G**  
4.8T transponder



**PL-2000T**  
800G platform



**PL-2000ADS**  
200G multi-rate ADM  
muxponder/transponder



**PL-2000M**  
200G multi-protocol  
coherent muxponder



**PL-2000**  
20G OTN ADM  
muxponder

## ⚙ Industries



DCI



Cloud service  
providers



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providers



Enterprises



Utilities



Education



Government