

Tejas XTN Solutions

SONET Refresh —Maximizing SONET Asset Usage

Over the past 20 years significant investment has gone into SONET transport. SONET provided the reliability and predictability needed for many applications; such as Voice, Tele-protection, Data and SCADA.

In turn applications became dependent on SONET performance characteristics and optimizing their interfaces, latency and protection protocols to work best with SONET.

Recently much of this SONET deployment has fallen out of warranty, with parts and support becoming more difficult to procure.

And, while evolving to an all packet network may provide long term benefits, it also puts significant strain on capital expenditure plus increased expense for operational training.

A Tejas XTN SONET Refresh brings a new generation of SONET network elements to the market and your network. Old network elements can be replaced with new, cost effective solutions ensuring a stable network for years to come. Current deployments can be expanded increasing coverage and revenue. With up to date software, in warranty hardware and timely support operational expenses are significantly reduced.

Easily Maintain Existing Services such as DS1, DS3, OC-n and Layer 1 Ethernet. Networks can be deployed using OC3, OC-12, OC-48 or OC-192 rings in many combinations. Traditional interface protection for DS1s and DS3s is provided ensuring existing SLAs continue to be met.

Stabilize Network Operations with the versatility of Tejas XTN solutions which can flex to changing service requirements for years to come. This means there is no need for a radical change in the network design nor is the network hostage to an ever diminishing supply of spare parts for old equipment.

Lower Operations Costs by removing the need for maintenance contracts on aging equipment and grey market purchases. Initial trainings time is kept low with this refresh by using familiar technology, standard terminology and a graphical user interface. A low cost EMS/NMS is also available if desired.

Interworking with deployed SONET is achieved through the use of well established standards. Protection mechanisms such as UPSR, interfaces such as DS1 /DS3 and technologies such as GFP are well established within the industry. With a proven record of multi-vendor interoperability, Tejas solutions are designed to work with other vendors in many network deployment scenarios.

Evolving MSPP Networks to a Converged Optical Networks in the future is easily done with the XTN solution portfolio. Modules are available to bring the latest Ethernet and MPLS-TP switching to your network when it is appropriate. OTN switching upgrades are possible with a software upgrade.

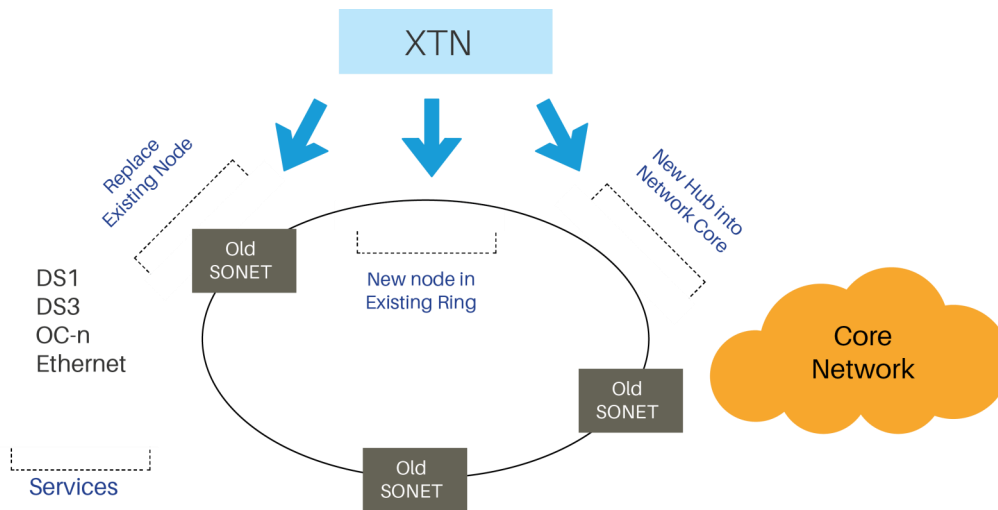
A Long Term Evolution Path becomes easier with the flexibility to introduce new technologies as required without expensive network re-designs. Some examples technologies are:

MPLS-TP to the edge of network for more advanced Ethernet services with the control and OAM required for strict Service Level Agreements (SLAs).

OTN to the edge of the network for high capacity services with a lower cost on-ramp to the network core.

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XTN MSPP Technologies

Async/PDH

DS1 and DS3 interfaces with protection and Transmux.

SONET

Full suite of SONET interfaces, rates and protection.

Ethernet

Layer 1 and Layer 2 Ethernet over SONET solutions

DWDM

Lower cost optical transport with very high capacities.

Pluggable optics

Ensure lower costs with a longer network life.

Flexible Interface Modules

Per port selectable handoff to various transport layers.

Flexible Network Protection

1:1, 1:N, Linear and Ring

Synchronization

Traditional BITS/SONET

Network Management

Multi-Layer provisioning across all technologies.

Long Term Evolution Capabilities

Advanced packet switching, OTN, GMPLS and other technologies are all available with the XTN solutions.

XTN SONET Product Solutions

TJ1400-7 2U MSPP and CPO

TJ1600-11 9U MSPP, CPO and DWDM Transport

TJ5000 Network Management System

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