

BSNL Gets More Out of Existing Optical Network using Tejas Alien Wave Solution



BSNL is India's state-owned public sector undertaking having massive PAN-India network providing wireless and wireline services to retail and business segments. Various critical & Government institutions rely on BSNL for their 24/7 networking requirements. Moreover, it has the responsibility of providing connectivity to the remote and underserved areas where connectivity options may be otherwise limited.

BSNL has designed 40-80 channel 100G Long Haul OTN based DWDM network based on equipment from a third-party provider. However, there are some unutilized bandwidth capacities which they wanted to realize in the most optimal way – keeping both future technology requirements and cost in consideration.



Challenges

- Utilize available bandwidth capacity at optimal cost
- Additional transponder cards of 100G from same OEM is capex intensive
- Require flexible platform ready for future evolution



Solutions

- Tejas TJ1600-2, a multipurpose compact platform, enables deployment of Alien 100G channels on 3rd party equipment
- Tejas Alien Cloud Simulator (TACS), a unique Alien Wave design toolkit helps to create precise deployment plan
- Tejas NMS for end-to-end manageability



Results

- Tejas worked with Customer and demonstrated the solution through a POC set-up between the 2 major cities
- On successful demonstration, the solution was rolled-out pan India covering 300 sites
- Significant capex savings compared to traditional solution of additional line cards from the same OEM



Key Value Propositions

- ✓ Proven interoperability for a number of global optical OEMs
- ✓ Converged platform comprising DWDM and compact OTN cross-connects with sub wavelength traffic grooming
- ✓ Seamless integration on a 3rd party DWDM network without guard band
- ✓ A range of 100G/ 200G Modules
- ✓ Alien Cloud Simulator: In-house network feasibility study tool to simulate and evaluate the network prior to deployment



Tejas Networks

Tejas Networks is a global broadband, optical and wireless networking company, with a focus on technology, innovation and R&D. Tejas' carrier-class products are used by telecom service providers, utilities, government, and defence networks in 75+ countries.

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