

Major Asian Oil and Gas Utility uses Tejas Networks Platforms for Pan-Country Optical Network

The customer is one of the largest Oil and Gas companies in the globe with 16,000+ kms of gas pipeline. To maintain and monitor this huge network, they have 11,000+ kms of Optical Fiber Cable (OFC) infrastructure that connects major cities and ports.

Safety and reliability of this network is of paramount importance as various critical functionalities such as Supervisory Control & Data Acquisition System (SCADA) system, Leak Detection & Inventory Calculation, Pipeline Intrusion Detection System, Video based surveillance etc. are dependent on this optical network.

The traditional network has been SDH technology based. As the customer is looking for modernizing the telecom networks, it requires reliable and trusted solution that enables a seamless technology upgrade while making it future-proof.



Challenges

- Requires an optimized migration mechanism to packet networks while operating and maintaining the existing SDH networks
- Superior network reliability, fault restoration and OAM capabilities
- Uniform network management experience



Solutions

- Tejas has been the major vendor for SDH platforms for the customer.
- When it came to network modernization, Tejas platforms supporting MPLS-TP was selected as it provides scalability benefits of packet networks while giving superior OAM and sub 50 ms protection switching
- Tejas TJ1400 platforms in different configurations i.e., TJ1400-7, TJ1400-12 and TJ1400-18 along with Tejas NMS (TJ5500) have been utilized for end-to-end network provisioning & management benefits of packet networks while giving superior OAM and sub 50 ms protection switching

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Results

- Tejas TJ1400 platform is capable of supporting existing SDH traffic as well as packet transport network with MPLS-TP
- Today major portion of the network – both legacy as well as modernized portion – is powered by Tejas systems
- Tejas NMS provides single glass of pane management for different technologies



Key Value Propositions

- Tejas ultra converged platforms support multiple technologies such as PTN, SONET/ SDH, xPON and wireless in the same chassis thus optimizing the capex and opex for the customer
- Dense Circuit Emulation support leading to optimized network modernization
- Centralized 'SDN Ready' Control Plane Architecture with Traffic Engineered Service from NMS
- Hierarchical QoS supports preferential treatment and prioritization of utility traffic profiles such as SCADA, video surveillance or LAN traffic



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. To know how we can help you fulfill your business objectives, contact us today!

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