State Power Utility Chooses Tejas Solution for Network Modernization

The state power utility of a South Asian country is revamping the existing communication system to have a state-of-the-art networking infrastructure. As part of this, the Power Line Carrier Communication (PLCC) will be replaced by fiber network. The existing SDH communication equipment will be replaced by upgraded equipment based on Packet Transport Network. This will ensure that their network is ready for upcoming requirements.

Challenges

- Requires a compact solution that caters to different types of traffic for without much disruption on traffic clients

- Along with SCADA traffic, there will be additional traffic such as video surveillance, IP telephony and enterprise data

- System should be ready for future technological evolution and scalability including applications such as smart grid

Solutions

- Tejas will be providing versatile TJ1400-7 UCB platforms across 30+ sites of customer; to replace legacy SDH and PLCC network

- UCB will provide Circuit Emulation and Packet Transport Network

- In addition, Tele-protection and GPS are provided from partners

- Tejas NMS for end-to-end manageability

- All High Voltage Substations are to be connected with fiber optic network and catered by Tejas platforms
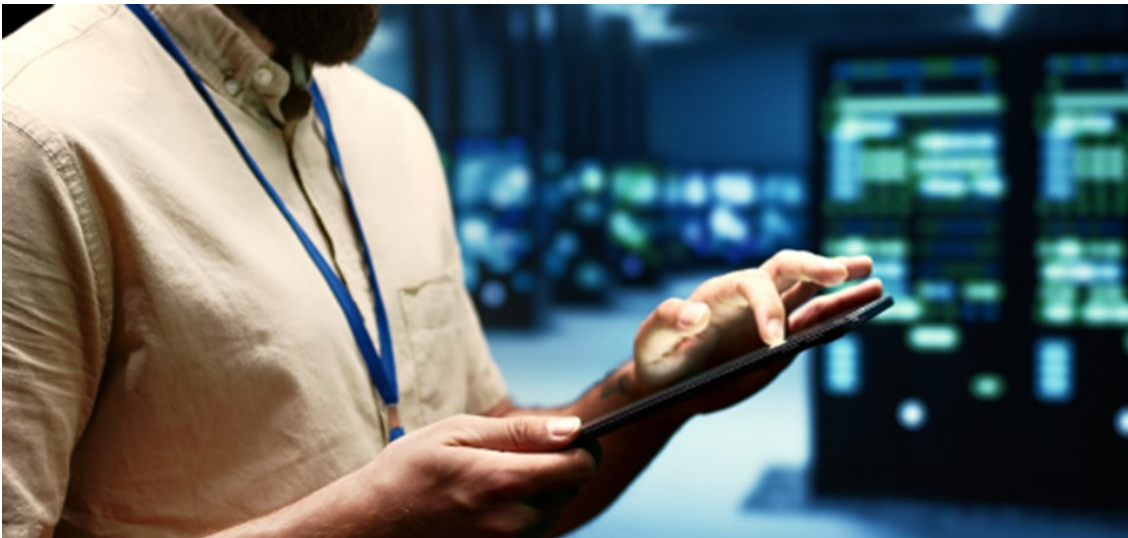
Results

- Tejas solution was selected considering the architecture flexibility, expertise in utility networking and support capabilities

- TJ1400 UCB was selected for its unmatched capability to support different technologies in one box using the 'Swiss Knife' approach

- The existing SDH communication equipment shall be replaced by Tejas equipment MPLS-TP based PTN technology

- To cater to various traffics – SCADA, CCTV, LAN, IP Phone and Internet

Key Value Propositions

- Software Defined Hardware architecture for phased transition and future network evolution with same level of performance

- MPLS-TP to provide enhanced functionalities for protection switching, performance monitoring and OAM

- Reliability and advanced protection mechanism

- Industry expertise in utility networking through multiple successful deliveries

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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