

# Indian Railways Builds Passenger Safety Surveillance Network using Tejas Enterprise Switches



Indian Railways is one of the largest rail networks of the world covering 68,000 km route and carrying 8 billion+ passengers every year. In order to enhance passenger safety, it initiated a comprehensive project to create digital monitoring and surveillance system across the stations.

RailTel, the network infrastructure arm of Indian Railways, is responsible for building the communication network for the project. Considering the various categories of stations and their corresponding infrastructure design, RailTel was looking for a reliable set of enterprise switches with different configuration to fulfill the requirement.



## Challenges

- Switches to support specified set of configurations in a cost-effective manner
- Large number of equipment to be shipped within a tight deadline
- Conformance to safety and EMC certification



## Solutions

- Tejas TJ1400P-M series of Enterprise Ethernet switches which provides comprehensive Layer 2/ Layer 3 switching functionalities
- 10,000+ number of devices across the below switches have been utilized
  - TJ1400P-M1
  - TJ1400P-M2
- Tejas NMS for end-to-end manageability



## Results

- Tejas enterprise switches are deployed in railway stations across the country to support the surveillance project requirement
- A variety of port combinations are supported as required by the customer – including GE, 10GE, SFP, SFP+, BaseT, PoE
- Flexible architecture allows re-use for different requirements that may arise in future



## Key Value Propositions

- ✓ Layer 2 and Layer 3 switching capability
- ✓ Power over Ethernet (PoE)
- ✓ Carrier Ethernet features including ERPS, CFM and Y.1731
- ✓ Secure network access and advanced QoS features
- ✓ Redundant power with AC/ DC supply
- ✓ Stackable to provide additional client ports
- ✓ Energy efficient operation – allows the ports to go into a low-power inactive state and reduce power consumption
- ✓ Compliance to Safety, EMI, EMC and Environmental certification standards



## 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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