Case Study
Jaipur Metro Rail

End User
Jaipur Metro Rail Corporation

Location
Jaipur, Rajasthan

Vertical Market
Mass Transit

Partners
IndigoVision
Dell
Barco

Features
All IP cameras
Distributed architecture
Highly Resilient, Video Analytics
Central Command Centre

Background

Jaipur Metro is considered to be the fastest built metro line in India till date. The first phase became operational in June 2015. The East – West line consists of 9 stations spanning a distance of just over 12 kms. A central command centre monitors and operates the entire line. The line provides world class infrastructure and comfort to the citizens of the Pink City.

Solution

Neural was selected by the lead bidder to execute the CCTV system of the project. The system consists of over 600 cameras spread across the stations, depot and command centre. All the cameras are from IndigoVision (UK). Servers and storage solution is provided by Dell. At each location operators and security personnel use the system to monitor the safety of commuters. The system has built in support for full redundancy and failover at each location. Video is recorded for 7 days at full frame rate of 25fps. The system is designed to scale up to another 25% without the addition of any hardware.

The command centre views live video from all the stations on a large video wall. Video analytics at the edge devices keep a constant vigil to alert the authorities of any unwanted event.

The system was commissioned in March 2015.

Customer Benefits

- Video from 600+ IP cameras covering the vital locations
- Command centre integrated with video wall for live feed of cameras for quick response
- Video Analytics to detect intrusion, smoke, fire, loitering, etc. providing crucial alerts in real time to the management for quick incident response
- Distributed architecture with no single point of failure
- Full redundancy and failover of video recording for a span of 7 days
- Systems is fully expandable by up to 20% without the addition of any server or storage hardware
- Fully ONVIF compliant system giving maximum flexibility to choose any third party ONVIF compliant vendor
- Future ready system for integration with 3rd party systems like access control, fire alarms, PSIM, etc.