Case Study
Wireless IP CCTV at Bharat Oman Refineries Ltd.

End User
Bharat Oman Refineries Ltd.

Location
Vadinar and Bina, Madhya Pradesh

Vertical Market
Petrochemicals

Partners
IndigoVision
Pelco
Wavesight
Dell

Features
Full HD cameras
Wireless connectivity for all cameras
Distributed Storage, Video Analytics

Background

Bharat Oman Refineries Ltd. is a joint venture between Bharat Petroleum Corporation Ltd. and Oman Oil Company S.A.O.C. Sultanate of Oman. BORL operates a 6 MMTPA plant in the hinterlands of Madhya Pradesh located at Bina and is supported by an efficient receiving and storage terminal at Vadinar Gujarat via a cross country pipeline. BORL intended to procure a surveillance system for both the locations to improve overall security of the locations. The challenge was to create a wireless network for all the cameras in a hazardous environment.

Solution

Neural was selected to implement the solution for BORL. The deployed solution consists a total of 146 full HD fixed and PTZ cameras from IndigoVision (UK) connected over a wireless network from Wavesight (UK). Video Analytics complements the security. Explosion proof PTZ camera is installed in Bina which is integrated into the IndigoVision software.
Video Analytics are deployed on both the locations to detect any event and provide instant alarm for operators. A total of 3 operators manage the day to day operations o the system. Each location has a control room to monitor any situation that may arise. The system has built in support for redundancy and failover. Video is recorded at each location. The locations are interconnected using the existing network of BORL.
The system was commissioned in February 2014 and since then has been in continuous operation protecting the vital assets at both the locations.

Customer Benefits

- Full HD Video from 146 cameras covering the complete perimeter and vital locations
- Complete system on wireless radio with no maintenance of wired network
- Video Analytics at both locations to detect intrusion, smoke, fire, loitering, etc. providing crucial alerts in real time to the management for quick incident response
- Distributed architecture allowing two geographically separated locations to act as one
- Full redundancy and failover of video recording for a span of 15days
- 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 BORL to choose any third party ONVIF compliant vendor
- Future ready system for integration with 3rd party systems like access control, fire alarms, PSIM, etc.

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