

Port of Greater Baton Rouge gets security overhaul



BOSCH

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Industry:

Transportation/critical infrastructure

End User:

The Port of Greater Baton Rouge in Louisiana

is one of the top 10 ports in the United States and ranked 32nd in the world in total annual tonnage. Situated 230 miles from the Gulf of Mexico on the Mississippi River and the U.S. Gulf Intracoastal Waterway, it covers multiple facilities that span 85 miles of the Mississippi River and encompasses Ascension, East Baton Rouge, Iberville and West Baton Rouge Parishes in its Port jurisdiction.

Business Objective:

When the port recently looked to update its security system, it faced several challenges pertaining to its physical location and set up, as well as remote access to security data. Officials from the Port of Greater Baton Rouge hired local systems integrator Vanguard Technologies Inc. to provide a solution that would conquer the logistical issues of the port's main Mississippi River Terminal and Inland Rivers Terminal.

Solution:

Due to the distance between locations, Vanguard Technologies recommended a hybrid wireless IP communication and fiber-based video surveillance system. To meet these equipment needs, the company turned to Bosch Security Systems.

The installation comprised over 50 fixed and PTZ cameras, with Bosch VideoJet MPEG 4 Encoders strategically located throughout each location. Connectivity to the cameras and Bosch encoders were provided via an IP network including both point-to-point and point-to-multipoint wireless devices, as well as more than a mile of multi-mode fiber optic cable. The MPEG 4 solution enabled the Port to manage bandwidth across a large IP network.

The system uses long distance video data packet transfer to address distance, terrain and logistics without compromising data integrity or security. It also provides the capability to archive video data for retrieval in the future.

Another important feature of the system is the capability to continuously monitor security devices and network links via powerful network monitoring tools to insure 24/7 uptime as well as fast problem resolution. The result is that each authorized operator has instant access to live video from all 50 cameras, as well as any new camera that may be added to the



system. The video is stored centrally on four Network Video Recorders (NVRs) delivering several terabytes of fault-tolerant RAID 5 storage.

Vanguard Technologies also installed Bosch's VIDOS Video Management System to provide the Port with video surveillance, security and alarm management software capability. The solution offers intuitive site map graphics, sophisticated video play back, and many other CCTV functions.

Result:

"We were working within some very specific restraints, namely to provide a cost-effective system that would allow key personnel access to security data from a number of locations. There are two separate terminals—the main Mississippi River Terminal and the Inland Rivers Terminal—that needed to be connected via a network," noted Jerry Jones, President of Vanguard Technologies. "By using video over IP-enabled equipment from Bosch Security Systems, we were able to provide a reliable, cost-effective video surveillance system. That solution features live video over an IP network, data access to all field devices and remote power management tools that enable Port executives and facility security officers to manage the installed devices from the internal network or through secured Internet access."

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