

MMR Proposal P13-0523

Crosstex Energy, Surveillance System, Geismar, LA

Scope of Services & Materials:

Solution Summary

Provide all of the hardware, software, installation and training necessary to replace the existing video surveillance system with an IP based Video Management System and Hi Resolution Cameras. This will improve the quality of the existing video cameras and allow for viewing, recording and operation of the cameras by anyone connected to the network with the user rights to the system. The server is sized to handle up to **30 days of recorded video**. Additional storage if needed can be added via additional drives in the server or by adding an external disk(s). The Video Management Software includes unlimited client viewers either through a "smart client" application, web browser or mobile application. A PC, laptop or mobile device can be used to view live or recorded video as well as operate PTZ cameras, the only requirement is that the device must have access to the network. The software includes functionality for event management and alarms that can either send emails with captured video images or pop up on a display running the application to alert users of an alarm or event.

Solution Components

Qty Description

- 1 Milestone XProtect Enterprise Base License
- 1 Milestone XProtect Enterprise Base License 1 Year PMA
- 13 Milestone XProtect Enterprise Device License
- 13 Milestone XProtect Enterprise Device 1 Year PMA
- 1 Windows Server with Keyboard, Video & Mouse (Tower)
- 1 1500va UPS (Tower)

4 42" Display with Pendant Mount

1 Workstation with 4 display output

Provided by customer:

- Network connectivity for the Media converter, Server, Workstation in the control room (1 Port Each)

Scope of Services - Software Installation & Configuration

Ready all hardware with required o/s versions and patch releases

Install Software on all servers

Setup console to manage all servers simultaneously and propagate accounts & policies

Establish Admin Account

Active Directory Integration

Setup User Roles & Security Rights

Establish User Policies

Setup archiving policies

Provision Cameras

PTZ patrols

Setup Custom Views by buildings, by outdoor cameras etc.

Matrix video policies

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Event management

Rule based recording

System Training - Onsite training for End Users and System Administrator

End User Training

- o Introduction to Smart Client
- o Navigating Views
- o Smart Search
- o Export
- o Browse Archived Video
- o Printing Captured Image
- o Creating Custom Views

- System Administration Training
- o Archiving Setup & Policies
- o New User Setup
- o User Roles Setup & Administration
- o Setup of User Rights & Policies
- o Camera Setup & Configuration
- o Positioning of Camera
- o Setup of Digital Patrols / PTZ- presets
- o Masking
- o Recording Options
- o Setup of views
- o Search functionality
- o Exporting of video

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Gate Cameras

Solution Summary

Replace existing gate camera with a Hi Resolution Network Camera and two way intercom connected via the audio input/outputs on the camera. Install new serial to Ethernet device to allow for remote operation of gate via smart buttons within video camera view.

Replace existing cameras on Admin Bldg and Security Office with High Definition Fixed Cameras. Install new cat5 cabling from camera mount to switches in Security Office and Admin Bldg.

Solution Components

Qty Description

Gate to Admin Bldg

1 Axis Q1602E Fixed Network Camera with Outdoor Housing & Low Light Technology

2 Comnet Ethernet Over Coax Devices

1 Two-way intercom

1 Serial to Ethernet Relay for controlling gate

Admin Bldg Camera facing Front Security Gate

1 Axis Q1755E Fixed Network Camera with Outdoor Housing 10x Optical Zoom

1 Cat5 cabling to network closet in Admin Bldg

Security Office Camera

1 Axis P3364VE Fixed Outdoor Network Camera with Low Light Technology

1 Cat5 cabling to network closet in Security Office

Provided by customer:

- Network connectivity for the Admin Bldg and Gate Camera in the Admin Bldg (2 Ports)

- Network connectivity for the Security Office Camera in the Security Office (1 Port)

Scope of Services:

- Demo existing cameras
- Install new Fixed Network Camera on Existing Pole
- Install new Ethernet to Coax device in existing housing
- Configure camera and EoC devices for Crosstex Network
- Provision cameras in Milestone Video System
- Demo existing intercom
- Install new Intercom on existing pedestal
- Install and Configure new serial to Ethernet relay device
- Setup smart buttons in camera view for remote operation of the gate

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Rail Cameras

Solution Summary

Replace existing cameras with a Hi Resolution Network Camera on existing tower. Install new Ethernet

over Twisted Pair devices. Install new **Q6035E PTZ** Network Camera at the end of Rail Rack and connect via wireless or fiber to the Operator Building.

Solution Components

Qty Description

3 Axis Q1602E Fixed Network Camera with Outdoor Housing & Low Light Technology

6 Comnet Ethernet Over Twisted Pair

1 16 x 12 x 8 Fiberglass Enclosure with Backplane

1 Axis Q6035E – Hi Def Outdoor PTZ Network Camera with Pendant and Pole Mount Kit

1 Conduit and Fiber Cabling from Operator Building to Building at end of Rail Rack *

1 Fiber Patch Panel and Enclosure on Center of Rail Rack *

1 Fiber Patch Panel and Enclosure in Chronograph bldg at end of Rail Rack *

*Fiber Option priced separately

Provided by customer:

- Network connectivity for the Ethernet over Twisted Pair Devices in the Admin Building (3 Ports)
- Network connectivity for the Wireless or Media Converter in the Operator Building (1 Port)

Scope of Services:

- Demo existing cameras
- Install new Fixed Network Cameras on Existing Tower
- Install new Ethernet over Twisted Pair EoTP devices in existing housing
- Configure cameras and EoTP devices for Crosstex Network
- Provision cameras in Milestone Video System

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Plant Cameras

Solution Summary

Replace existing flare camera with Axis Q1755 hi definition IP camera mounted to same pole as existing camera. Install a new Hi Definition PTZ Camera on the existing pole next to the Change Building with Cat6 cable to the existing switch in the warehouse.

Qty Description

Flare Camera

1 Axis Q1755E Fixed Network Camera with Outdoor Housing 10x Optical Zoom

2 Comnet Ethernet Over Coax Device

1 8x8x6" Nema Enclosure pole mount for Ethernet over Coax device

PTZ Camera next to Change Bldg

1 Axis Q6035E – Hi Def Outdoor PTZ Network Camera with Pendant and Pole Mount Kit

1 Cat5e Cabling and conduit from pole to switch in Warehouse

Provided by customer:

- Network connectivity for the Flare camera in the Operator Building
- Network connectivity for the PTZ camera in the Warehouse

Scope of Services:

- Demo existing Flare camera
- Install new Fixed Network Cameras on Existing Pole
- Install new Ethernet over Coax devices & Outdoor Enclosure on Pole
- Configure cameras Crosstex Network
- Provision cameras in Milestone Video System

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Dock Cameras

Solution Summary

Provide new Hi Definition network cameras to cover the expanded dock barges and area surrounding the barges and catwalks. The existing enclosure will be relocated from the Rohn Tower to the Flare Tower to ensure access regardless of the river level. Two new 5 Megapixel Fixed Cameras will be installed on the Rohn Tower providing full time coverage of the entire barge area. New Hi Def PTZ Cameras will be

installed on the Flare Tower and Speaker Array tower to provide coverage of the barges, catwalks and surrounding areas. These cameras have hi-zoom capabilities and can be put on a customized continuous patrol as needed for detailed coverage of particular areas or to monitor loading/offloading process.

Solution Components

Qty Description

1 Phoenix Contact – 5 Port Din Rail Switch

1 Phoenix Power Supply with UPS

1 Ubiquiti 5Ghz Wireless Radio with Antenna – mounted to Flare Tower

1 Ubiquiti 5Ghz Wireless Radio with Antenna – mounted to Radio Tower

2 Axis 3367VE – 5 Megapixel Outdoor Network camera with Pendant and Pole Mount Kit

2 Axis Q6035E – Hi Def Outdoor PTZ Network Camera with Pendant and Pole Mount Kit

2 FO MM Media Converters (Microwave Bldg & Control Room)

Provided by customer:

- Network connectivity for the Radio in the Microwave Comms Building (1 Port)

Scope of Services:

- Relocate existing enclosure from Rohn Tower to Flare Tower
- Demo existing Power Supplies and Radio's from Enclosure
- Install new Hardened Din Rail Mount Network Switch in Enclosure
- Install new Power Supply and Battery Backup in Enclosure
- Install new Integrated Radio & Antenna on Pole mounted to railing on Flare Tower
- Install conduit and cabling to connect Radio to enclosure
- Install new Integrated Radio & Antenna on Radio Tower at Comms Building
- Install cabling from Radio into Comms building – connect to media converter
- Demo existing cameras and wireless equipment from Rohn Tower
- Install new Fixed Cameras on Rohn Tower
- Demo power cable in existing pathway from Flare Tower to Rohn Tower and replace with 2 Cat6 cables connecting the two fixed Cameras
- Install new PTZ Camera on Tower below speaker array
- Install new underground conduit from Flare Tower to Speaker Tower to connect new PTZ Camera
- Install new PTZ Camera on Flare Tower mounted to new pole mounted to handrail
- Install conduit and cabling from PTZ Camera to Enclosure
- Configure cameras for Crosstex Network
- Provision cameras in Video Management Software