

Genius Vision Enhanced the Surveillance System for

Capital of Louisiana



Post 9/11, security concerns at the homeland government agencies have intensified. Most agencies have stepped up their security management and facilities. State of Louisiana is one of the major state governments to take the initiative to upgrade its video surveillance and security systems. The implementation site was at the City of Baton Rouge, the capital of Louisiana, United States of America.

Situation

The first phase of this project was to manage 6 buildings in the campus. The challenge was to integrate the following:

- 112 Cameras (25 PTZ cameras / 87 Fix cameras) total
- 1 CCTV matrix switcher in each building (first tier), and 1 matrix switcher in the Central Control Center (second tier), each first tier switcher will have two outputs connecting to the inputs of the second tier switcher
- Johnson Control CardKey Access Control System
- 1 Koyo DL05 PLC bring back the sensor alarm from one building
- Intellex DVR, four 16-channel units, one 8-channel unit Integral DVR, two 16-channel units
- 10 Flashbus analog live video workstations running GVD Client
- 15 digital live video workstations running GVD Client

Solution



State of Louisiana selected FacilitySm@rt, the security integration software to integrate various security systems—such as DVR, CCTV matrix switcher, and access control system — on a single browser-based graphic interface.

Therefore, the security professionals at the campus could access integrated security information, remotely or locally, from any workstation on the private network from a single graphic interface.

This greatly simplifies the security operation and dramatically shortens the response time when an outrageous situation occurs.

System Architecture

1. Provide camera coverage for surveillance and control from control console located at Security Desk. Provide digital graphic system interface required to interface equipment to system network.
2. Enterprise Surveillance Graphical Security Integration Sub-system (GSIS):
 - Coordinate integration of this sub-system with the Contractor furnishing and installing GSIS.
 - Program GSIS system control, graphics maps, maps, icons, alarms, and user interface screens as required to seamlessly integrate system control with existing GSIS system.
 - Provide network workstations, connections, and control cables required to connect this sub-system to the GSIS system via the State Security Ethernet network.
 - Coordinate selection of IP addresses with GSIS Contractor.
 - Provide smart node software required to interface multi-tier matrix switchers and digital recorders to GSIS system.
 - Provide GSIS logon for use via web browser on GSIS workstation.
 - Limit maps and camera views for this logon to local cameras only.

This project included 3 interface systems:

1. Application Server/Sm@rtNode: It hosts the GVD FacilitySm@rt web page and services, and provides the software interface to other subsystems.
2. GVD GUI Workstations (15 units): Provide the integrated GUI functions for operator who wants to view live video from DVR
3. GVD Flashbus Workstations (10 units): Provide a map/camera interface to switcher operator

System Features

1. Intuitive Mapping Graphical Interface:

FacilitySm@rt's easy-to-use sitemap interface is extremely intuitive. Icons of devices, like cameras, doors, and motion sensors, are displayed on the screen. One click on a device icon brings up real-time information associated with the selected device.



Remote device control is exercised through clicking on device icons, whether it is directing PTZ cameras, locking doors, or turning on lights. FacilitySm@rt's sitemap interface enables users to visualize the location of each device and proves to be a most effective user interface.

2. Auto-Switching for Multiple Layers of Matrix Switcher Connection:

It's almost impossible for switcher operator to memorize all camera locations in such big scale projects, not to speak of using multiple traditional switcher keyboards to control all matrix switchers on first and second tier. The auto-switching function provided by FacilitySm@rt can easily help the switcher operator to switch the camera he/she would like to see, to a final analog display destination, such as TV monitor or the Flashbus analog video display workstation. All users need to do is to right click the camera icon in the map, or in the camera tree, then pick the final display destination.

3. Integrated Alarm Summary and Verification:

The FacilitySm@rt alarm summary page displays overall alarm information on one page, including alarm location and site map, real-time video, pre and post alarm video clips, alarm response procedures and emergency alarm notification. Users may view all information at one glance without switching from one security system to another. FacilitySm@rt ensures a timely and professional response to each alarm.

4. Remote Monitoring and Control:

FacilitySm@rt's convenience and global accessibility allows authorized users to review and respond anywhere, anytime. No need to install special software.

About Genius Vision Digital www.gvddigital.com

Genius Vision Digital (GVD) is a company based in Taipei with cutting edge technologies. GVD brings the next generation of IP surveillance systems for the upcoming "Full High Definition" age by providing robust video storage and management systems for the mission critical applications in Banking, Hospital, Retailing, Government, and Gaming etc.