Fresno Community Hospital Chose Genius Vision for Its

New Central Control System

Community Regional Medical Center (CRMC), offers a full-service emergency department, state-of-the-art radiology and cardiology departments, inpatient and outpatient surgery, dialysis, rehabilitation, pediatric services and cancer treatments. CRMC remains the largest of Community Medical Centers' three acute-care facilities and is adjacent to the new trauma and critical care building, the centerpiece of the 58-acre medical campus in the heart of downtown Fresno.

Community Medical Center is leading the largest redevelopment project ever in the city of Fresno. Plans call for the development of 58 acres into a state-of-the-art medical campus. The trauma and critical care building, which is adjacent to the existing 5- and 10-story buildings formerly called Community Medical Center-Fresno. Upon completion, the CRMC will provide premier medical facilities, including the region's only burn and Level 1 trauma centers, a proposed 91,000-square-foot ambulatory care center and a University of California, San Francisco, Fresno Medical Education and Research Center.

Services will include emergency, trauma, burn, intensive care, inpatient surgery, heart catheterization labs and radiology. It will include 58 intensive-care beds, 10 intensive-care burn treatment rooms, eight additional operating rooms, 68 treatment areas in the emergency department and two rooftop helicopter landing pads.

Situation

CRMC is one of the major regional medical centers take the initiative to upgrade the video surveillance and security systems. It has installed the CCTV and Access Control System throughout the campus however, both systems remain un-integrated. So all information could only be accessed in one single security control center. The security professionals at the Emergency Dispatch Center were unable to receive overall information should an event occurred. Response Time is very critical and it took a lot of time to gather enough

information from several systems, before the response or decision can be made. This project was to manage all buildings, parking lots, and public areas in the campus. This included:

- More than 300 Cameras (most of them are PTZ model)
- Enterprise class Access Control System, manage more than 1200 door/contacts and 1500 access cards
- More than 20 DVR, 16-channel each
- More than 15 digital live video workstations running GVD Client

Solution

CRMC selected FacilitySm@rt to integrate various on-site security systems—such as CCTV and access control system — on a single browser-based graphic interface. Therefore, the security professionals at the campus and the 911 Emergency Dispatch Center could access integrated security information, remotely or locally, from any workstation on the private network. This greatly simplified the security operation. Moreover, a single graphic interface dramatically shortened the response time.

System Architecture

1. Provide camera coverage for surveillance and control from control console located at Security Desk of 911 Emergency Dispatch Center. Provide digital graphic system interface required to interface equipment on the 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, 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 CRMC Ethernet network.

   Coordinate selection of IP addresses with GSIS Contractor.

   Provide smart node software required to interface Access Control System and Digital Video Recorders to GSIS system.

   Provide GSIS logon for use via web browser on GSIS workstation.

   Limit maps, event info and camera views for this logon to local cameras only.

This project included 2 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 (more than 15 units): Provide the integrated GUI functions for operator who wants to view live video from DVR and receive the event/alarm information.

System Features

1. **Intuitive Mapping Graphical Interface:**
   FacilitySm@rt's easy to use site map interface is extremely intuitive. Icons of devices, like cameras, doors, and motion sensors, are displayed right 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 site map interface enables users to visualize the location of each device and proves to be the most effective user interface.

2. **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.

3. **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.

Result

The new baseline security management system includes firewalls, password-protected commands and control capabilities through a remote web-enabled management system for CRMC campus facilities. The integrated system did help ensure secure and fast communication among a variety of security agencies in the event of an emergency. And because of its open system architecture

and scalability, it truly reduces the total owner of cost to grow and maintain the system.

About Genius Vision Digital www.gvdigital.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.