Integrated Systems and Infrastructure Solutions

Client
City of San Diego

Location
San Diego, California

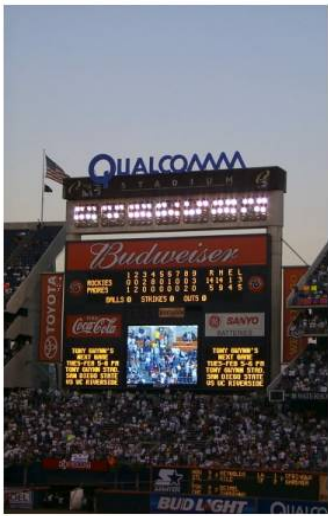
Services
- System Design
- Software Development
- Fiber Optics Communications Design
- Systems Integration
- Testing
- Operator Training

Date
2003

Key Personnel
Dan Lukasik, P.E.

Mission Valley Event Management

Scope of Services



Delcan (formerly Delcan-NET) was the principal subcontractor for Mission Valley system design, software development, system integration, acceptance testing and training, and is the Intermodal Transportation Management System (IMTMS) System Integrator prime contractor.

Phase 1 of this project focused on fiber optics communications design, the design and location of field elements, and on a redesigned City Transportation Operations Center (TOC). Phase 2 was directed toward software development, system integration and testing and operator training. A project Integrated Workstation (IWS) was designed, built and deployed at three sites, including the City of San Diego TOC, at Qualcomm Stadium's Event Management Center (EMC), and at the San Diego (Caltrans) Regional Transportation Management Center (TMC). The IWS is capable of viewing and controlling field surveillance and control devices including CCTV and Changeable Message Signs (CMS), and is capable of remote operation of a field Highway Advisory Radio (HAR) station. The IWS facilitates the secure transfer of CMS and CCTV control among the three IWS sites using the Common Object Request Broker Architecture (CORBA) Center-to-Center NTCIP standard. The City has access to District 11's new IP video system through a fiber network-to-network link and remote video compression Codec's supplied by Baxall USA Ltd.

Project Description

The *San Diego Mission Valley* project addressed event management challenges through the design and deployment of a unique Advanced Transportation Management /Advanced Traveler Information System (ATMIS). The project deployed a transportation surveillance and control network within San Diego's Mission Valley corridor, and established the first link of a planned Regional InterModal Transportation Management System (IMTMS) network. The project developed communications and CCTV integration technologies, field-device sharing protocols and software, and event management strategies and procedures. Collectively, these project elements addressed inter-modal traffic surveillance and control, and associated access, circulation and parking management strategies associated with major events at San Diego's 72,000-seat Qualcomm Stadium.

Results

This project was the recipient of the prestigious Best of ITS Award in the Partnership Deployment (2004).