



▶ The Project

Bay Area Security Enhancement was one of the first and largest wireless IP-based security projects in the World.

The project was designed and built from scratch including all R&D funded by Caltrans immediately after 9/11.

The integration was very challenging. Proper commissioning and documentation of the system were going to be the key to turning over an easily maintainable project.

▶ The Challenges

Complexity: There were over 1,000 IP based devices that needed to have a wide range of criteria tracked on them and set perfectly to make sure the system operated properly.

Area: The project was spread over 2,000 square miles so being able to schedule maintenance and trouble calls efficiently was critical.

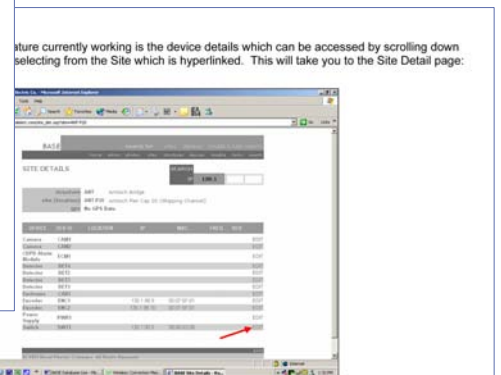
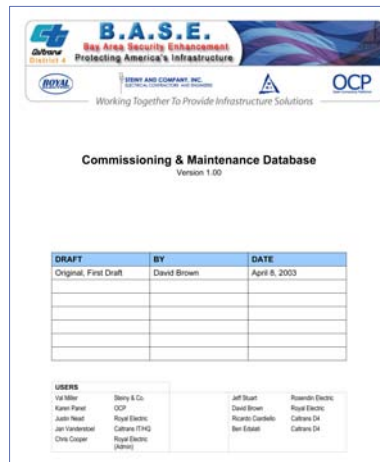
Site Location: Many of the sites were located in very difficult to access locations such as the tops of bridges, on pier caps, locations requiring bridge closures, etc. Efficiency was key and so was having all the information required when at the site.

▶ The Solution

We tried the standard paper form based solution with trouble tickets, carbon copies, pending work orders, etc.

Each day we were wasting valuable hours trying to organize the paperwork, doing double data entry and making mistakes entering critical information due to entry errors and handwriting recognition.

We designed a SQL database with a web front-end which could be accessed securely by everyone on the project team from any location via Sprint wireless CDPD modems in their laptops.



This custom solution had a pay-back within 2 months of use and was in use for 6 months during the commissioning. It is just one example of utilizing technology to streamline a repetitive task to improve quality and cut costs.

