

CASE STUDY: CITY OF SAN LUIS OBISPO, CA, USA

THE CUSTOMER

The City of San Luis Obispo (SLO) is located on the central coast of California, mid-way between San Francisco and Los Angeles. With a population of 45,000, SLO covers 10.8 square miles of mountainous topography.

SITUATION

The police, fire departments and public utilities providers of the mountainous City of San Luis Obispo, California, had been relying on a 30-year-old analog public safety radio network. The challenging terrain meant that portable hand-held service was particularly unreliable.

Steve Schmidt, SLO IT Manager, says in an emergency, first responders had to physically leave the emergency site and drive until they could establish radio communications to request back-up. "Even worse, they would use their cell phones to communicate. This was simply unacceptable—people's lives were at risk."

The City is also contracted to provide fire service for the California Polytechnic State University campus and student residences.

In 2009, the City decided to replace the old analog network with a new network that could provide reliable, secure city-wide coverage, encourage increased co-operation between Police, SWAT, Fire, City and Dispatch teams, and make use of existing fiber infrastructure.

"I've worked with a lot of different companies over the years and I have never worked with a company as customer-focused as Tait."

Steve Schmidt - IT Manager City of San Luis Obispo



RESPONSE

Tait experts worked closely with the City to design a solution that addressed the challenges of the terrain, without compromising reliability, by carefully selecting three geographically diverse radio sites to reduce risk of network failure. The solution was also designed to re-utilize the existing fiber infrastructure.

The solution was a six-site IP-based TaitNet QS² simulcast/P25 conventional simulcast network for the City's Police, SWAT, Fire, Public Works and Utility departments. The hybrid solution was designed to interface with Avtec IP-based console equipment located at the Emergency Communications Center.

The network deployment in 2010 was managed by qualified Tait professionals. "Project Management was great," says Steve Schmidt. "They kept everything on time and there were no delays with installation."

Commissioning, Technical Training and Support are provided by Tait Services experts on an ongoing basis.

OUTCOME

Coverage tests show that SLO now has 98.5% city-wide coverage on portable and mobile radios, as well as 100% network redundancy via re-use of the City's fiber infrastructure, giving first responders confidence in their communications. The resilient Tait P25 radio system has solved all of the previously identified coverage issues.

"With the new state-of-the-art Tait network, our city workers feel confident now with their communications equipment," says Steve Schmidt. "The system has solved all of the coverage issues we had in the City and out at the Cal Poly campus."

The Simulcast cross-band, city common channel means that communication between police, fire, utility and public works is fully interoperable, enabling radio users to work together seamlessly to manage large events or emergencies.

A P25 digital encrypted channel, utilizing the FIPS-certified 140-2 Advanced Encryption Standard (AES), ensures that Police and SWAT operations are carried out in complete secrecy, improving safety of staff and the community.

In August 2011, the Association of Public Safety Communications Officials (APCO) International awarded the SLO Communications Center the prestigious Horizon Award, recognizing the proactive achievements of the Center.

MORE INFORMATION

For news, product specifications, comprehensive technical information and contact details of your nearest Tait service facility, please visit www.taitradio.com

CUSTOMER PROFILE

The City of San Luis Obispo has a population of 45,000 and covers 10.8 square miles of mountainous topography.

APPLICATIONS

- ➤ Six-site IP-based TaitNet QS² simulcast/P25 simulcast network
- Two analog simulcast FM channels (VHF)
- Five analog simulcast FM channels (UHF)
- One digital simulcast P25 encrypted channel (UHF) for Police and SWAT teams
- ▶ Cross-band City common channel
- Avtec IP-based console solution

BUSINESS BENEFITS

- ▶ Proven 98.5% city-wide coverage
- Communications that the Police,
 Fire, Utility and Public Works
 teams can trust
- Re-utilizing existing fiber infrastructure provides 100% network redundancy
- ► Re-utilizing the City's subscriber units kept the project costs down
- Reliable communications network can now provide full fire service to the California Polytechnic State University campus
- Flexible simulcast solution caters to analog and digital users and the needs of each City department

Tait is a global leader in designing, delivering and managing innovative communication solutions that help utilities and public safety organizations to keep the lights on and communities safe.

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