

Sonoma County

California, USA

Case Study



THE CUSTOMER

In Sonoma County, California, 400 staff from three law enforcement agencies were operating a TaitNet QS2 Simulcast system. When the Russia River basin in Sonoma County flooded during a storm, local emergency services urgently required additional channel capacity for their radio communications.

SITUATION

At the time of the flood, the County's new Tait QS2 Simulcast system still had to be commissioned, but the first of five channel conversions was completed.

The law enforcement agencies were so confident after the build-out of the first Quasi-Sync 2 channel that they encouraged the Sheriff's employees to begin using that channel in emergencies, even before the official acceptance of the system.

RESPONSE

The five channel system has now been expanded from seven to eight sites.

Sonoma County chose TaitNet QS2's high simulcast performance that significantly reduces maintenance. TaitNet QS2 uses high-stability oscillators to maintain very stable transmitter frequency, unlike traditional simulcast frequencies that drift over time so regular maintenance is required at each site to avoid distorted audio signals where coverage overlaps.

“The audio quality is distinctly better than our previous, 12 year old system.

The Sheriff Department is very pleased with its performance. In fact we even cross-connected the UHF law enforcement channel with our VHF fire and emergency medical services to better co-ordinate emergency responses.”

Joe Perez - Assistant Communications
Sonoma County manager



TaitNet QS2 digital signal processing-based Line Equalizer Modules route audio to each transmitter, analyses the characteristics of a neighbouring transmitter and automatically adapts its own signals to match.

The County also chose the system because it was modular, simple to install and because it was able to interface with microwave or radio frequency audio paths or telecommunications lines.

OUTCOME

The County has been able to keep their existing radio infrastructure and fleet radios, significantly reducing the cost of the upgrade. TaitNet QS2 System Control equipment, Line Equalizer Modules and Frequency Reference Modules were overlaid on the County’s existing radio communications network (base stations and antennae).

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

Law enforcement agencies in Sonoma County, California.

APPLICATIONS

- ▶ Tait QS2 simulcast

BUSINESS BENEFITS

- ▶ High audio quality
- ▶ Reliable communications
- ▶ Advanced computer technology greatly reducing servicing
- ▶ Fitted with existing equipment and infrastructure
- ▶ Simple installation

PRODUCTS USED

- ▶ Five channel TaitNet QS2 Simulcast system



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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