



EMERGENCY SERVICES, SOUTHERN IDAHO, USA

CASE STUDY



Customer profile

Emergency services in Southern Idaho

Applications

- Tait Quasi-Sync system

Business benefits

- High audio quality
- Reliable communications
- Reduced spectrum costs
- Advanced computer technology greatly reducing servicing
- Reduced maintenance costs

Products used

- TaitNet Quasi-Sync
- 45 base stations/repeaters

THE CUSTOMER

Fire and Police services in four Southern Idaho counties - Lincoln, Gooding, Jerome and Twin Falls - decided to improve communications and reduce costs by consolidating to just one despatch system.

THE CHALLENGE

The Services chose a TaitNet Quasi-Sync Simulcast system that simultaneously broadcasts from many transmitters on the same frequency.

The users of these emergency services' mobile radios are spread across a large area and with the simulcast system they all have access to the same radio channel.

Traditional simulcast systems can be expensive to buy and maintain because precise control of the transmitters is required to receive an undistorted audio signal in coverage overlap areas.

Over time the transmitter frequencies drift and the audio signals that modulate the transmitters have to be corrected.

"Tait Quasi-Sync is one of the best systems I have seen. The Southern Idaho 911 system is exceeding expectations. The users are real happy. Not only was the Tait Quasi-Sync system less expensive to buy, it will also cost less to maintain."



Joe Blaschka
Emergency Services' Consultant
Adcom Engineering

THE SOLUTION

The TaitNet QS system has key advantages over traditional technology. It uses advanced computer technology to virtually eliminate servicing.

TaitNet QS uses high stability oscillators to maintain a very stable transmitter frequency.

Digital signal processing based Line Equalizer Modules that route audio to each transmitter, analyze the characteristics of the neighboring transmitter and automatically adapt their own signal to match.

The new system provides high audio quality as well as coverage to areas not previously reached.

Tait North America, in conjunction with dealer Teton Communications, installed a four-channel system with a total of 20 sites for the emergency services in Southern Idaho.

- One is a Police data channel (five sites)
- One channel for Fire voice despatch (six sites)
- Two are Police voice despatch channels: one for the northern area (five sites) and one for the southern area (four sites)

The network uses 45 Tait base stations/repeaters across the four counties.

MORE INFORMATION

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

www.taitradio.com

Tait is your complete supplier of radio communications equipment, with mobile, portable and infrastructure solutions. Tait is renowned for its flexibility, responsiveness and commitment to producing innovative world-class mobile radio communications products.

Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purposes only. Please note that not all frequency bands and power outputs are available in all markets. For further information please check with your nearest Tait office or authorized dealer.

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