

Sydney Airport Corporation Australia

Case Study



THE CUSTOMER

With some 29.1 million people per year using both the international and domestic terminals, Sydney Airport Corporation Limited (SACL) is responsible for managing Australia's busiest airport.

Radio forms an integral part of these operations by connecting a vast range of personnel within the organization, from SACL airfield operations and security personnel, to baggage handlers and coordination staff.

SITUATION

SACL needed to upgrade their radio network to improve their coverage, system redundancy and compatibility with other state and federal agencies. SACL needed a system that was cost-effective and could handle the predicted growth of Sydney Airport over the next 20 years.

RESPONSE

Tait dealer, Mastercom developed a dual site P25 solution using six Tait P25 TB9100 digital base stations and utilizing the advanced software features available in the TB9100.

The new system is designed to provide maximum coverage and emergency backup communications for both the international and domestic airports. The two sites are designed with a significant coverage overlap, so if one site is disabled, the second site can continue to provide the required radio coverage and meet their emergency backup requirements. It was critical for SACL that the two sites were able to operate autonomously in order to provide a seamless service for their users in the event of a system failure.

“Tait equipment was chosen because of its features and support for P25 standard.

Combining this with Mastercom's detailed understanding of our requirements, the choice was simple. The new wide area network has improved radio coverage and quality of voice communications.”

Paul Mendoza - IT Manager
Sydney Airport Corporation Limited

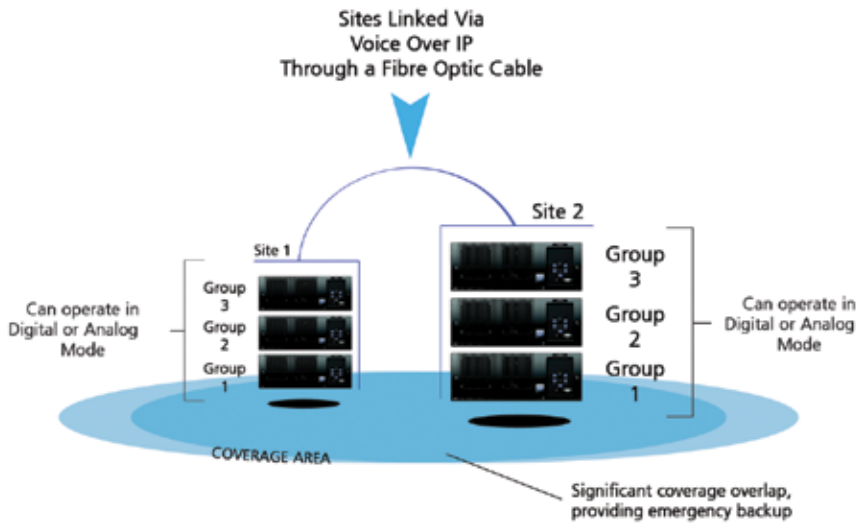
The resulting TB9100 network repeats both analog and digital signals providing seamless operation with the existing SACL analog equipment and coverage over the entire site.

As well as compatibility with analog, P25 digital radio is an open standard supported by many manufacturers and public safety agencies, allowing SACL the option of communicating with other emergency services should there be a need for it in the future.

SACL invested heavily in an extensive fibre optic network around the airport. This was utilized to link the sites together using VoIP built into the TB9100 base stations. Base voting has also been implemented to maximize voice clarity (the TB9100 P25 digital base station has a built-in voter as standard). When a call is made, the bases operating on that channel, at either site, receive and compare the signal. The base with the best quality signal then instantly retransmits across the whole network.

OUTCOME

SACL's new dual site P25 digital solution provides the organization with improved coverage, improved voice clarity, emergency backup communications and system flexibility for future growth. In the first month of operation, the system logged some 40,000 calls, rapidly proving its worth.



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 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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CUSTOMER PROFILE

SACL is responsible for managing Australia's busiest airport where radio is vital for communication.

APPLICATIONS

- ▶ P25 digital system

BUSINESS BENEFITS

- ▶ Ability to integrate with analog
- ▶ Interoperability allows for improved communication between SACL and emergency services
- ▶ Improved coverage
- ▶ Flexible system allowing for future growth
- ▶ Improved task management through Voice Over Internet Protocol (VoIP)

PRODUCTS USED

- ▶ Tait P25 TB9100 base stations