

PROFESSIONAL MOBILE RADIO: NEW AIRPORTS

DELIVERING EXCELLENCE IN MISSION-CRITICAL RADIO DESIGN AND INSTALLATION

New airports need state-of-the-art radio systems to drive operational excellence. Coverage needs to be reliable and secure, and it needs to be provided to all public and operational areas. Rollout also needs to be delivered on time, on budget and to meet quality standards – which is especially challenging when building work is frequently ongoing.

ISSUES

Secure airport coverage

Airport operations need reliable professional mobile radio (PMR) systems, including devices and indoor coverage – often in difficult radio environments (characterized by features such as metal structures and numerous small interior rooms).

System complexity

Radio systems require up-to-date skills and expertise in order to manage their complexity. This may range from regulatory aspects to radio design and process integration.

SOLUTION

SITA provides state-of-the-art PMR systems with up to 99.999% reliability. The solutions are delivered through new, improved radio terminals and best-in-class distributed antenna systems (DAS).

SITA's systems ensure minimal impact to building infrastructure, with installation completion and sign-off aligned to airport inaugurations.

SITA's systems are deployed with future considerations in mind. The PMR systems are IP-based and allow integration of future applications. The distributed antenna systems allow additional frequencies to be added without modification, and SITA can complement solutions with unified communications platforms.

BENEFITS

- Minimal impact to infrastructure
- Coverage and performance – past systems have delivered above customer expectations
- Fast and accurate deployment due to SITA's experience in airport installations
- Fully managed systems – SITA combines its technical solution with local SITA support
- Flexibility – our systems can be evolved to meet the demands of the airport and its future tenants.

Up to

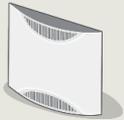
99.999%
system availability

Complete
secure
reliable coverage

HOW DOES IT WORK?



Devices



Enhanced indoor coverage



Local radio deployment



Local switches

LTE & UCP

Evolution

SOLUTION COMPONENTS

1. Core network PMR solution

SITA delivers state-of-the-art IP PMR solutions which provide up to 99.999% reliability and integration capabilities. This ensures that the solution can grow and adapt to the changing requirements of an airport's users.

2. Reliable PMR devices

SITA selects highly reliable devices from a range of suppliers. We also tailor device type to the specific airport conditions.

3. Distributed Antenna System

SITA's indoor coverage solution uses an Active Wideband Distributed Antenna System. This ensures less impact on buildings during installation and provides better coverage and performance. It also has the advantage of being scaleable and future-proof.

4. Unified communications platform

SITA can complement the PMR solution with a unified communications platform (UCP) to combine other technologies (smart phones etc) with the PMR groups

5. Next generation systems

SITA has extensive expertise in future "4G and LTE" solutions to enable airports to grow and migrate from voice-centric PMR to data-centric IP-based systems

CASE STUDY

When a large Middle Eastern Airport needed a mission-critical PMR solution with extensive indoor coverage, SITA designed and installed a complete PMR system, including a distributed antenna system.

The system was implemented alongside the airport construction, and the customer relied on SITA's expertise to guide them through the design phase. Particular attention needed to be paid to overcoming the difficult radio environment and the fact that the new airport was nearing completion of construction work.

The successful delivery demonstrated that SITA had the knowledge to design, install and integrate the PMR solution while working closely with other airport projects.

The system is fully operational, with local onsite support, and has the potential to grow in capacity and expand as the need arises.

For more information please contact us at info@sita.aero

SITA

Create success. Together