

CASE STUDY: TRANSPORT

HAMAD INTERNATIONAL AIRPORT, QATAR



Hamad International Airport is the sole international airport in the state of Qatar. Located south of its capital, Doha, it replaced the former Doha International Airport as Qatar's principal airport. Formerly known as New Doha International Airport (NDIA), Hamad International Airport was originally scheduled to commence operations in 2009, but after a series of delays was finally opened on 30 April 2014.

Background

With Hamad International Airport being expanded to accommodate increased passengers numbers due to the FIFA 2022 World Cup and Qatar Airway's continued passenger growth, the customer needed to extend the reach of the existing FFT perimeter intrusion detection systems used to protect the site and upgrade from FFT Secure Fence and FFT Aura to the latest generation FFT Aura Ai-2. Minimal nuisance alarms was a key requirement, as was cut resilience and integration with existing security management systems.

Requirements

- ✓ Fibre optic fence mounted and covert buried intrusion detection solution
- ✓ Strict performance criteria including precise intrusion location
- ✓ Cut resilience and redundancy
- ✓ Real-time alarm/event notification
- ✓ Integration with existing security management systems
- ✓ High detection combined with Low Nuisance Alarms
- ✓ Immune to RFI/EMI and lightning

Our Solution

FFT Aura Ai-2 was installed to replace FFT Secure Fence and FFT Aura which had been used to monitor the perimeter of the airport since 2013. The extended perimeter was protected using a combination of fence mounted covert buried fibre optic.

FFT Aura Ai-2 was successfully commissioned, with intrusion alerts highlighted on a site map using FFT CAMS graphical user interface. Integration with the existing video management system enabled the control centre to visually verify intrusion alerts using CCTV.

Customer Response

To test the effectiveness of the perimeter intrusion detection solution, the customer conducted extensive FFT Aura Ai-2 Acceptance Testing during which intrusion simulations were conducted along the perimeter. FFT Aura Ai-2 successfully detected all intrusions and seamlessly communicated the information to the video management system which triggered the closest CCTV camera to verify the alarm. The customer now extending sectors within the airport monitored by FFT Aura Ai-2 to include the baggage handling area and airport maintenance.



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