

CUSTOMER INDUSTRY

Airports

WEBSITEwww.miami-airport.com**LOCATION**

Miami, Florida

BUSINESS NEED

Miami International Airport sought to strengthen overall security airport-wide. In addition, the airport needed a dedicated and integrated runway incursion solution in order to ensure safety, thwart crime, and prevent smuggling.

SOLUTIONS

NiceVision

Video and Data Analytics

Situator

THE IMPACT

Enhanced and increased levels of security and safety

Complete situational awareness and management capabilities for the entire airport environment, including runways

NiceVision facilitates a break-even cost model by enabling the MIA to offer video surveillance services to airlines via its ability to track usage per defined client

The runway intrusion detection solution helps ensure the safety of planes, passengers and reduces risk of unlawful actions to the airport's cargo transportation business

MIAMI INTERNATIONAL AIRPORT

ABOUT THE CUSTOMER

The largest gateway between the United States and Latin America, Miami International Airport (MIA) is also one of the largest airline hubs in the United States. In 2011 the airport ranked first in the United States by percentage of international flights and second by volume of international passengers. Annually, over 39 million passengers travel through the airport making it one of the world's busiest airports. Moreover, MIA transports 2.1 million tons of cargo, more than any other airport in the US.

THE CHALLENGE

As a major international airport, MIA sought to improve their security and safety operations through an integrated video surveillance solution with IP capabilities, video analytics for intrusion detection and synchronized audio to provide enhanced monitoring, incident verification and early notification of unfolding events. In addition, the airport sought a robust intrusion detection system for their runways and taxiways to ensure safety and address the security needs of their substantial cargo traffic.

THE SOLUTION**Phase I – NiceVision Video Management Solution with Qognify Video and Data Analytics**

Using a phased approach, as a first step Qognify designed and implemented a solution that manages and records 2600 video channels located throughout the interior and exterior of the airport, which include advanced video analytics. This has enhanced the airport's monitoring and intrusion detection capabilities.

The integrated, open-platform solution enables the MIA to leverage past investments while it enhances their functionality. An example of this is its ability to apply today's advanced IP functionality to existing analog infrastructure.

- Through Qognify's Smart Video Recorders (SVR) with hybrid functionality, the NiceVision solution enabled the MIA's existing 2000 analog cameras with advanced IP capabilities. At the same time, the SVR seamlessly integrates the newly deployed IP cameras, allowing the airport to migrate to an all IP solution at their own pace.

- The airport has achieved higher levels of security as a result of the integrated system. This enables security operators to focus on mission-critical tasks as many of the once manual tasks are now automated.
- With Qognify's Video and Data Analytics Suite (VA), the airport can better monitor and secure their entire environment as operators are alerted to potential unfolding events.

The airport security system consists of a highly distributed video surveillance system that monitors 24x7 and feeds the captured video into the Qognify recording system for simultaneous playback and viewing in any of the airport's monitoring locations.

Phase II – Situator for Runway and Taxiway Incursion Detection

With the proven success of the NiceVision and VA solutions, together with the IP capabilities it enabled across their existing infrastructure, MIA has deployed Situator to secure its runways and taxiways. The solution combines a mix of long-range smart surveillance cameras enabled with outdoor-ready intelligent video analytics, radar, vehicle tracking and GPS capabilities.

"Situator was not only one of the best products out there after the testing, but it was also something that gave us a return on investment because we already own most of the infrastructure. It's a platform that is customizable, not just for security. We can use it for point-of-sale, concessions vendors, for tracking vehicles, for license plate recognition. The runway-incursion

Ray Davalos, Building Systems Manager, Miami International Airport

"Everything is now automated for the security operators – just one click gives them access to live video, audio, and the control alarm as well as view capability for pre-and-post recording footage. We are also leveraging the system to offer security services to some of the airlines. This is helping us realize a break-even costing model."

Ray Davalos, Building Systems Manager, MIA

- Constantly monitoring the environment, as the backbone of the solution Situator manages alerts and reduces false alarms as it is completely integrated with all other systems and sensors.
- The solutions addresses both safety events, such as when an airport vehicle enters an active runway, together with security events that may come in the form of a breach from an external vehicle that makes its way on to the runway or taxiway.
- Once the event has been handled, a full incident report is generated and automatically distributed to all relevant stakeholders. This is then used for debriefing, while the insights gathered from the incident report can be used for process improvement and corrective action.

Through the integration of security systems and sensors, Situator is able to intelligently correlate the data flowing into the platform for the proactive identification and verification of unfolding events on the runway or taxiway. Once verified, operators can effectively respond to any given situation with approved, embedded and automated response plans.

ABOUT

Qognify helps organizations mitigate risk, maintain business continuity, and optimize operations. The Qognify portfolio includes video management, video and data analytics, and PSIM/Situation Management solutions that are deployed in financial institutions, transportation agencies, airports, seaports, utility companies, city centers, and to secure many of the world's highest-profile public events. www.Qognify.com

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