DUBAI AIRPORT
USE CASE

SECURING THE PERIMETER OF DUBAI AIRPORT: AUTOTRACKING

Dubai Airport is a major airport in the Middle East which provides connections between Europe and Asia.

The airport is strategically located halfway between Europe and Asia and is the first airport in the world by international traffic, the fifth busiest in the world with more than 88 million passengers in 2018 and the sixth in the world in terms of freight with more than 2.65 million transiting tons in 2019. The airport desert more than 270 destinations and hosts more than 150 airlines.

There are nearly 8,000 flights per week and over 90,000 employees mentioned above we need to use long-focal lenses, resulting in a very narrow field of view. This in turn implies that a large number of cameras have to be installed to cover wide-open spaces and thermal cameras are quite expensive.

PROJECT KEY POINTS

• **Organization**: Dubai Airport
• **Location**: Dubai, United Arab Emirates
• **Sector**: Transport
• **Application**: Site protection, security
• **Technology partners**:
Smartworld, Flir, Genetec Security Center

MISSION

At the end of 2017, the integrator Smartworld contacted us for a project to secure Dubai airport. They were looking for an effective autotracking solution to support an already existing perimeter protection solution. There were a total of 41 Flir PT, PTZ cameras to be equipped with an autotracking solution with an average of 10 presets per camera. The solution had to be able to follow a person and resume the tracking after the person had been hiding for more than a minute. The goal was to provide assistance to the operator through Genetec Security Center by following a target after crossing the fence. Several other solutions have been tested, but none has reached the set objectives.

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SOLUTION APPLIED TO THE PROJECT

The solution that ACIC proposed was our ACIC **Autotracking** solution with integration into the VMS Genetec Security Center. Our **Autotracking** solution fully achieved the set objectives: it tracks people who have crossed the fence and ensures the resumption of the tracking after the subject has hidden himself. This solution runs on on-site analysis server and was integrated into Genetec Omnicast in a first time and then into Security Center.
A redundancy server has also been deployed to provide continuous analytics in case the main server fails. This option is called Failover.
In addition, we had to integrate the event streams from the existing thermal cameras to make it possible to distinguish the source of the alarms.

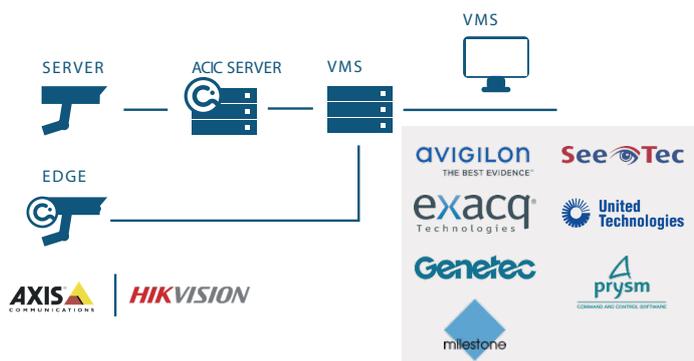

RESULTS
DUBAI AIRPORT

In January 2018, the order was placed. We then spent a week there to train the Smartworld teams and help bring the solution into service. Initially, the VMS was Genetec Omnicast. A second on-site support was required to finalize the installation. In May 2019 a second phase was launched for the migration to Genetec Security Center. Remote access was enough and there was no need to travel.

ACTIVITY DETECTION

ACIC **ActivityDetection** produces an alarm when an object crosses a virtual line or is present for some time in a secure area. Smart algorithms adapt to environmental conditions to limit false alarms due to parasitic movements or changes in illumination.

ACTIVITY DETECTION - INTEGRATION SOLUTIONS

AUTRES RÉFÉRENCES