Aeropuertos Argentina – Transportation Case Story

Aeropuertos Argentina elevates national airport security with open platform video integrations and cloud technology

Aeropuertos Argentina, part of the Corporación América Group, has been tasked with designing and managing security systems for multiple airports across Argentina since 1998. Aeropuertos Argentina is enhancing security systems for airports by deploying integrated technology ranging from access control to video components, and by incorporating innovative new cloud and analytic solutions. Aeropuertos is working with Milestone Systems and its open platform video management software to address these challenges in a wide range of airport construction projects.

Customer
Aeropuertos Argentina
Corporación América Group

Milestone products
XProtect® VMS,
License Plate Reader analytics

Integrations
AXIS Perimeter Defender,
people counting, heatmaps,
crowd flow, access control,
tarmac movements,
cloud deployments

Location
35+ terminals across Argentina

Camera count
1,000+ AXIS and other brands

Partner
Aeropuertos Argentina

Challenge: separate legacy systems

Aeropuertos Argentina needed a unified, flexible video security solution across multiple airports to seamlessly integrate with a wide range of video analytic applications and network cameras, including cameras from Axis Communications. The legacy systems at many airports are outdated. Aeropuertos needed video technology software that can provide end-to-end encryption, regardless of camera make or model, to ensure the highest level of security for sensitive airport data.

Solution: open platform architecture

After careful evaluation, Milestone Systems' open platform XProtect VMS was selected for the airport security system upgrades. An open platform architecture allows for the integration of cameras from various manufacturers and third-party analytics solutions, enabling Aeropuertos Argentina to tailor the security system to each airport's specific needs.

Result: Advanced Analytics Integration

As the upgrade projects continue to roll out, the adoption of the XProtect VMS is beginning to significantly benefit Aeropuertos Argentina and the airports under its management. The open platform enables the integration of advanced analytics, such as AXIS Perimeter Defender, enhancing perimeter security. The scalability of the XProtect VMS allowed Aeropuertos Argentina to easily expand the security system as new airports are added or existing airports require upgrades.

Enhancing Security and Operations

In addition to security enhancements, Aeropuertos Argentina has also been tasked with obtaining comprehensive insights into passenger behavior, aircraft movement on the tarmac, and crowd flow within the airports. The existing systems lacked the flexibility and scalability needed to accommodate the diverse requirements of Argentina's airports.

With a unified, data-driven security system in place, Aeropuertos Argentina will be able to efficiently monitor and manage security at multiple airports from a centralized location. This technology will lead to improved situational awareness, faster incident response times, and enhanced overall security for passengers, staff, and assets.

As advanced analytics are integrated, such as people counting and heatmap tools, the system will be able to provide managers with valuable insights into passenger flow and behavior. This data-driven approach enables the organization to optimize airport layout, staffing, and resource allocation, ultimately enhancing the passenger experience and streamlining operations.

The high-quality video data captured by the system has also proved valuable for incident investigation and analysis. The future-proof approach of the open platform architecture ensures that Aeropuertos Argentina can readily adapt to evolving security challenges and incorporate cutting-edge technologies as available.

"In terms of security, Aeroparque Jorge Newbery needed to monitor the perimeter of their airport. Choosing Milestone allowed us to implement the AXIS Perimeter Defender, which is currently used by the Airport Security Police. There are approximately 22 posts set up with the duo of Axis dome cameras and bullet thermal models, monitoring the whole perimeter and using the analytics provided by the AXIS cameras running in the Milestone platform."
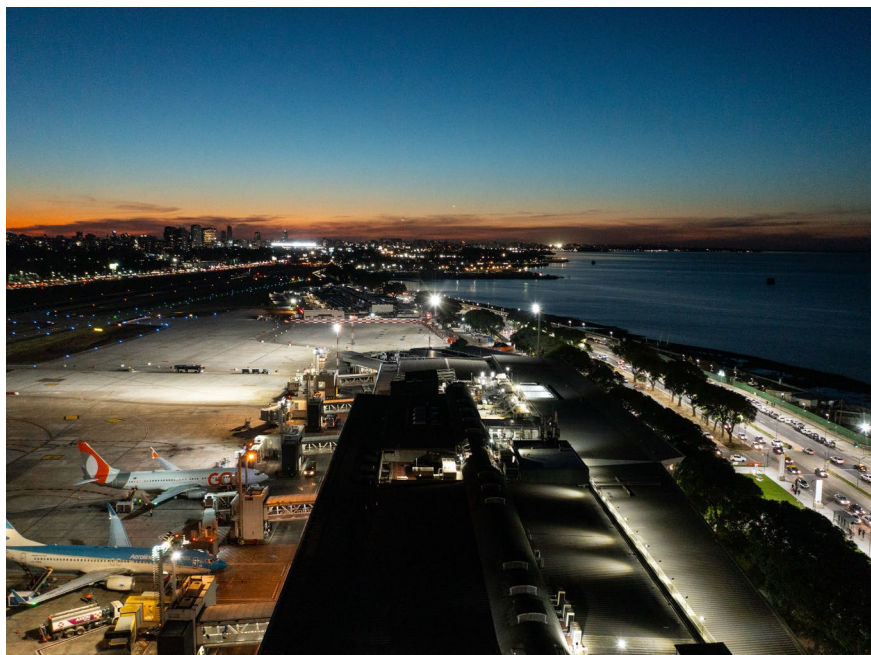
- Juan Sebastián Charneca, technology consultant for Aeropuertos Argentina

To cover the airports' expansive multi-acre areas, the team standardized a mix of AXIS cameras, including high-resolution, pan/tilt/zoom and thermal imaging models. Jorge Newbery Airport in Buenos Aires, for example, currently uses around 800 devices. If the planned projects for this year are completed, this number will reach 1,200 cameras.

By integrating AXIS cameras, sensors, and the AXIS Perimeter Defender video analytic, with Milestone VMS, the airports are able to create a virtual "fence" around a designated area. This perimeter solution automatically detects human and vehicular motion and issues alerts on intrusions of airport property.

A key feature of the Milestone Systems solution is its ability to provide a single-pane-of-glass view of the entire security system. This centralized management enables Aeropuertos Argentina to monitor and control all cameras, analytics, and alarms from a single interface, streamlining operations and improving incident response.

Open platform, data-driven video technology software can ingest, process, and present vast amounts of data to security personnel, enabling them to monitor events in real time and make informed, proactive decisions as they occur, significantly improving overall airport safety and security.

Seamless integrations and cloud verified

The open platform approach allows Aeropuertos Argentina to integrate with other existing systems, such as access control, lighting, alarm, and intercom systems, creating a comprehensive, proactive approach to safety. By consolidating a broad range of cumulative digital intelligence, the XProtect solution will become the cornerstone of Aeropuertos Argentina's airport security ecosystem.

The implementation process involves close collaboration between Aeropuertos Argentina, Milestone Systems, and certified partners throughout Argentina. This approach ensures that the VMS be seamlessly integrated with existing systems and that the solution will be deployed efficiently across all airports.

"Technically speaking, Milestone's VMS provides us with a round-trip encryption tunnel with any camera model or brand, which other providers did not have."

Juan Sebastian Charneca, technology consultant for AA

"As part of our services, we evaluate platforms, and we did thorough testing of XProtect's AWS integration. We verified that the VMS software in the cloud works the same as the on-premises version, and for recordings. This keeps the Milestone software a step ahead of the rest of the VMS systems here in Argentina."

- Juan Sebastián Charneca, technology consultant for AA

At most sites throughout the country, the recorded video data has been stored on the airports' local servers for 31 days. The Aeropuertos Argentina team is considering moving video storage and management to the cloud in many locations to reduce costs for long-term storage and to enhance video data use and sharing via high availability in the cloud.

XProtect on AWS (Amazon Web Services) is a pre-packaged XProtect application deployed directly from the AWS Marketplace. XProtect on AWS delivers the same performance, stability, and open platform compatibility as on-prem systems but in the cloud.

The Milestone open platform, coupled with the fast-growing AWS ecosystem of video analytic tools, a flexible pricing structure, and ease of implementation and maintenance make XProtect on AWS a cost-effective choice.

Future Plans on the horizon

Looking ahead, Aeropuertos Argentina is exploring the integration of additional analytics, such as facial recognition and license plate recognition, to bolster security and efficiency. Aeropuertos Argentina is also considering the potential of cloud-based solutions, having already tested XProtect with AWS, which achieved promising results.

As Argentina's airports continue to grow and evolve, Aeropuertos Argentina is confident that the XProtect solution will continue to provide the flexibility and scalability needed to meet future challenges head-on.

"Milestone's VMS has been a game-changer for Aeropuertos Argentina. It allows us to integrate the best cameras, analytics, and solutions, creating a comprehensive security system that adapts to each airport's needs. The open platform's flexibility ensures we can incorporate new technologies and adapt to changing security landscapes, helping future proof our investment. With Milestone, we are confident in our ability to elevate airport security across Argentina, now and in the future."
- Juan Sebastián Charneca, technology consultant

◆ milestone

Recognize the challenges?

Do you also need to see what is happening on all your premises, so you can respond in time?

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