

**Product:**

Vi-System – Real-Time Video Analytics

Application:

Security and Perimeter Protection

Customer: Iberia Airlines Maintenance**Location:** Barajas Airport, Madrid, Spain**Vertical Market:** Mass Transportation Hubs - Airport**Agent Vi Partners:**

Nordés Prosegur Tecnología – System Integrator

On-Net Surveillance Systems Inc. (OnSSI) – Video

Recording System

Sony Corporation – Cameras

Agent Vi Boosts Airport Security for Spain's Iberia Airlines

Challenge

Iberia Airlines – Spain's largest airline – has a 200,000 square meter facility at Madrid's Barajas International Airport which includes aircraft hangars, warehouses, fuel storage depots, terminals, computer centers, perimeters and security identification display areas (SIDAs). The airport serves as one of the most important European hub airports and as the gateway to the Iberian peninsula from the rest of Europe and the world. The facility ranks as the world's 12th – and Europe's 5th – busiest airport.

In December 2006, a terrorist attack at the airport killed 2 people and injured 26 others, as well as destroying 60% of the parking lot building and part of the terminal. In the wake of the bombing, Iberia Airlines sought to heighten security, improve safety in aircraft-only areas, and prevent theft in its facilities. Dissatisfied with its CCTV security system, the airline turned to Agent Vi for an intelligent, real-time analytics-powered surveillance system.

"Security became a primary concern at our operation following various breaches and attacks at a number of airports," said Diana Simon, Security Manager, Iberia Airlines. Airline officials sought to protect facilities against both terrorism and crime. They sought a real-time solution that could accurately detect and alert to persons moving in user-defined areas, entering or exiting closed areas, and crossing virtual lines, notwithstanding movement interference from aircraft, trucks and swaying trees. Specifically, the solution needed to detect and alert to vehicles and persons entering aircraft-only areas and emergency landing zones. The airline carrier also required the solution to protect its warehouses and computer facility against theft and vandalism.

Solution

Iberia Airlines selected Vi-System – Agent Vi's real-time video analytics solution – and local integrator Nordés Prosegur Tecnología was chosen to implement it. Iberia Airlines uses OnSSI's NetDVMS as its recording and viewing application which is certified as fully integrated with Vi-System. This enables events generated by detections following analysis to be sent to NetDVMS for display.

"Moving to an all IP-based solution required that we look for a highly-scalable video analytics offering that would allow us to deploy hundreds of cameras while eliminating the need for additional server hardware and keeping operational costs down. Agent Vi's software allowed us to do that, and the analytics have performed extremely well despite the challenging outdoor environment near a busy airport."

—Security Manager
Iberia Airlines

With two stages of the project completed, Iberia's network cameras include 150 Sony IP cameras, of which 50 run Agent Vi's real-time analytics solution. Analytics rules applied to the cameras in Iberia's facilities include:

- **Person/Vehicle moving in an area** to detect the presence of unauthorized personnel or vehicles in secure zones such as the runways;
- **Person/Vehicle crossing a line** to detect people and/or vehicle intrusion into restricted zones, such as the hangars, warehouses, computer rooms, fuel storage depots and other buildings.

Result

Vi-System – Agent Vi's real-time analytics solution – enabled Iberia to ramp up its security without having to take on additional staff. The automatic detections made by Vi-System have resulted in more effective surveillance, managed centrally from the security team's headquarters, without the need for regular patrols around the large site.

Despite passing aircraft and trucks, and even shadows from nearby trees, Agent Vi has given Iberia a way to receive automatic alerts regarding targets moving inside user-defined areas, entering or exiting closed areas, and crossing virtual lines – tracking both direction and speed, and differentiating among various targets by size and other parameters.

Diana Simon, Security Manager at Iberia Airlines commented that "Moving to an all IP-based solution required that we look for a highly-scalable video analytics offering that would allow us to deploy hundreds of cameras while eliminating the need for additional server hardware and keeping operational costs down. Agent Vi's software allowed us to do that, and the analytics have performed extremely well despite the challenging outdoor environment near a busy airport."

About Agent Vi

Agent Video Intelligence (Agent Vi) is a leading provider of open architecture, video analytics software deployed in a variety of security, safety and business intelligence applications worldwide. The comprehensive video analytics solutions offered by Agent Vi extend from real-time video analysis and alerts to forensic search and post-event analysis, and are fully integrated with a range of third party edge devices and video management systems.

Integrating Agent Vi's advanced video analytics capabilities into existing or new surveillance networks enables users to benefit from the true potential of their surveillance networks, transforming them into intelligent tools that respond to the practical challenges of the 21st century.

About Vi-System

Vi-System is Agent Vi's real-time video analytics software, which transforms standard surveillance networks into intelligent and effective detection and alert systems.

By performing real-time analysis of the video stream, Vi-System identifies and generates alerts for a variety of user-defined events relating to people, vehicles and objects. Used for applications such as security, safety and business intelligence, Vi-System offers effective monitoring of multiple video sources in parallel, enabling automatic detections, alerts and responses to events, as they emerge.

Based on Agent Vi's open architecture, pure-software approach, Vi-System can be easily integrated with a wide range of edge devices and video management systems, in both new and existing surveillance networks.

Vi-System boasts the combined benefits of superior detection performance, high scalability, installation simplicity and ease of use, making Vi-System the most advanced, comprehensive and cost effective real-time video analytics solution on the market.