



# SAFE AIRPORTS

THE INTERSECTION OF TECHNOLOGY AND TRANSPORTATION





# CREATING SAFE AIRPORTS

Today's airports serve as critical infrastructure around the world. Every day, millions of travellers, workers and pallets of cargo travel in and out of your doors. Your promise — ensure the timely arrival and departure of flights while maintaining a streamlined and enjoyable experience for travellers, shippers and your airport's businesses.

But delivering on this promise is only achievable with a foundation of safety. Everything starts with safety. It's the centre that holds airport operations together.

At Motorola Solutions, we've created the first and only end-to-end enterprise technology ecosystem that unifies voice, video, data and analytics on a single platform — providing you with the foundation of safety you need by addressing the unique challenges of your airport. We've also reimagined how the technologies used to help keep airports safe, can do even more — drive efficiencies, improve productivity and generate better outcomes. Because safety, efficiency and productivity are deeply interconnected. With the right technologies, you can be faster, smarter, more focused and more resilient — better at everything you do.

Because when technologies communicate and learn from each other, safety and performance improve across your entire enterprise. Intelligence advances outwards, giving you eyes and ears where you've never had them before. Information flows where it's needed — from cameras, to radios, to smart devices, to command centres — and what you need to know is made clear. People collaborate in more personalized and productive ways, using any network or device they want. Fairness and accuracy replace biases and blindspots. Resiliency increases and decisions improve.

Our Safe Airports technologies come together to efficiently keep passengers, workers and cargo secure — providing the certainty of safety you need to deliver on your promise. Reassuring staff and travellers that potential threats can be identified and resolved before they escalate. Ensuring that if the unthinkable happens, there are plans and technology in place to respond as quickly as possible.



## EXAMPLE USE CASE: AIRFIELD BREACH

Our Safe Airports integrated ecosystem allows you to address everyday concerns as well as emerging situations through the four pillars — Detect, Analyze, Communicate and Respond. We will explore how these pillars work together to address your airport's challenges through the example of an airfield breach.



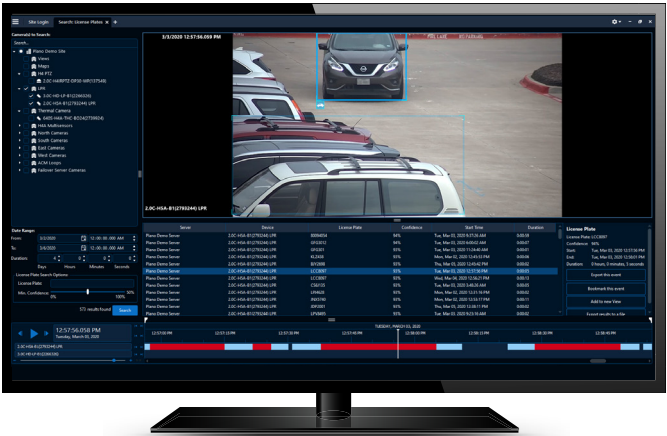


# DETECT

Overseeing a large, multi-zoned airport can be a challenge. From monitoring secure area perimeters to identifying potential threats, detection plays a critical role in minimizing potential threats to both passengers and airport personnel.

Integrated video security utilizes artificial intelligence to create high visibility across your airport, monitor large areas in one view and recognize potential security gaps. Access control provides entry management, access point detection and automatic notifications for door alarm activities. Automatic license plate recognition combined with watch list alerting analyzes vehicles and people entering and exiting the area — detecting potential perimeter breaks. Radio alerts ensure all personnel — across multiple teams — are informed of critical information simultaneously.

All of this comes together to ensure you know what is happening — with better insights to protect people, property and assets.



License Plate Recognition

## DETECTION SOLUTIONS

### Video Security

Create a safe and secure environment, deter threats and enhance visibility across all security zones with specialized cameras for every location — fisheye for secure rooms, multi-sensor for terminals, and ultra high-definition for parking lots and runways.

### License Plate Recognition

Monitor all roads and parking lots approaching and surrounding your airport and automatically alert security when threat-designated vehicles enter your perimeter.

### Access Control

Protect and monitor secure areas and doors within your facility using a role-based system with instant detection of individuals at access points and camera-based verifications.

### Watch List Alerting

Set an inner perimeter, identifying license plates of interest based on a secure, controlled watchlist created and maintained by authorized users within your security team. Expand the power of this capability to detect specific people of interest with the optional inclusion of facial recognition technology.

### Radio Alert

Instantly receive video analytic and access control alerts directly to your two-way radio via text message and text-to-voice alerts — including license plate recognition, breaches, loitering and presence detection.

## AIRFIELD BREACH - DETECT



### Large Areas Monitored With Less

HD wide-angle lens cameras allow airports to monitor more with less and one camera recognizes an individual scaling fence to airfield.



# ANALYZE

You're responsible for monitoring a large and diverse facility filled with secure areas, public areas, critical equipment, cargo and thousands of travellers and employees. Scouring through collected data in order to recognize points of interest across your busy airport is a demanding task. Technology can help simplify that process.

Appearance searches quickly and seamlessly explore video footage to track persons of interest moving through your facility. Integrated access control and identity search provide real-time insights into personnel movements, making it easy to find a missing employee. Unusual motion detection reveals atypical behaviour and events which need investigating.

Ultimately, these solutions and insights are crucial to cutting through the noise and highlighting important events so that you can quickly find what you are looking for and make informed decisions to take action.



Appearance Search

## ANALYTIC SOLUTIONS

### Avigilon Appearance Search™

Find who you are looking for faster with searches using specific physical descriptions such as clothing colour, gender or age.

### Unusual Motion & Activity Detection

Reveal atypical events that may need investigating with artificial intelligence that "learns" typical airport activities in a scene to automatically detect and flag unusual motion or activity that may otherwise be missed.

### Identity Search

Intelligently integrate ID badges with the power of video to map personnel movement throughout your entire premises via scanned door badge activity linked with video feeds.

### Focus of Attention

Easily identify where the action is required with potentially critical video activities identified by colour-coded hexagons so you can focus your attention on what's important.

## AIRFIELD BREACH - ANALYZE



### Appearance Tracked

Situational awareness maintained as intruder's appearance is tracked between multiple cameras on the airfield.





# COMMUNICATE

Whether it's a typical day of funnelling hundreds of passengers through the airport, or an emergency situation, clear and timely communication is key to creating a safe and connected airport.

Two-way radio communications instantly and reliably connect security, administration, staff and local first responders. Broadband push-to-x extends your reach by enabling voice and data to be shared across devices and teams. Dispatch software makes it easy to directly share data across devices and teams, including first responders.

Connectivity — across devices and networks — is an important part of ensuring you and your entire team are aware and informed at all times.



Avtec Scout Dispatch

## COMMUNICATION SOLUTIONS

### Two-Way Radio Communication

Communicate securely and clearly across all zones of operation with two-way radios that deliver superior voice clarity, rugged design, long battery life and outstanding range — ensuring personnel can hear and be heard.

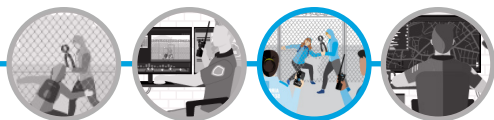
### WAVE PTX™ Broadband Push-to-X

Push-to-talk without device, network or geographic boundaries with capabilities enhanced with the ability to push details via text, photo, video or file attachment to smartphones, tablets, laptops and even land-lines — enabling you to share voice and data with your team.

### Dispatch Software

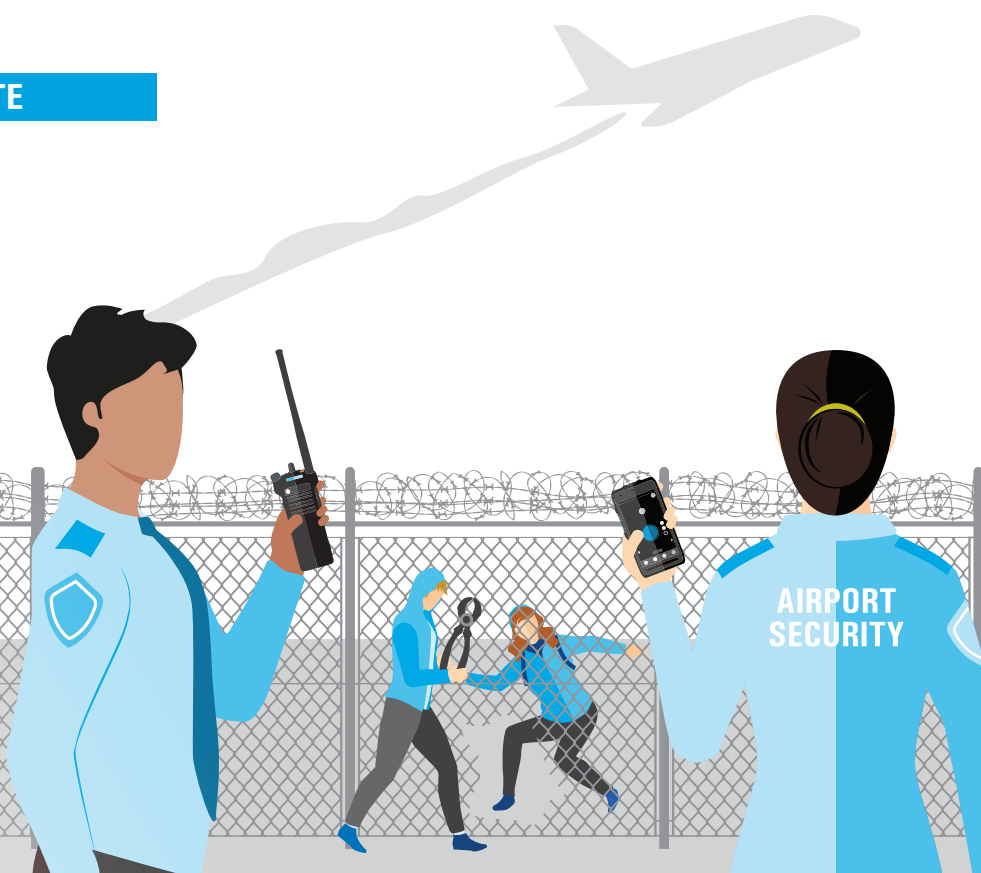
Simplify and standardize your dispatch process and workflow with streamlined dashboard views and instant communications across different devices, networks and locations scaled to your airport's specific needs.

## AIRFIELD BREACH - COMMUNICATE



### Resources Dispatched

Hiding place of intruder is determined and shared across security team to apprehend intruder.





# RESPOND

Being ready and aware is crucial to ensuring your team can quickly respond to problems before they escalate. Emergency connectivity ensures instant response of first responders to your airport.

Incident management streamlines the logging of incident reports, unifies data and evidence storage, and makes it easy to share multimedia with other personnel. CommandCentral software aggregates information feeds to help streamline incident response with informed decision making.

Because enabling rapid response and documenting past incidents can be the key to preventing incidents from becoming tragedies.



Control Room Solutions

## RESPOND SOLUTIONS

### Control Room Solutions

Integrating powerful voice and data communications with advanced fleet control and dispatch functionalities, Control Room Solutions maximize your operational effectiveness. Control room personnel are equipped with tools that allow them to organize and deliver tasks more efficiently, communicate better with teams in the field and make faster, sounder decisions when incidents happen.

### Dynamic Interoperability

Easily enable and disable dynamic, seamless and secure communication links between networks regardless of the situation with interoperability between first responders and airport security.

## AIRFIELD BREACH - RESPOND



### First Response Dispatched

Local police directly informed with video for immediate first response and incident logged with associated data.







## SERVICES

Effectively managing a complex ecosystem can be complicated. You need the right service, support and management to ensure your day-to-day needs are taken care of ensuring smooth operations. At Motorola Solutions, our unique service offerings provide technical support, hardware repair and replacement and software updates to ensure your two-way radio, infrastructure, cameras and software are always working at peak performance.

# 900M

air passengers travel each year to, from and within the European Union<sup>1</sup>.

### Technical Support

Effectively troubleshoot and promptly resolve technical and non-technical issues with dedicated experts.

### Repair and Replacement

Protect system components from normal wear and tear and keep them in operation with state-of-the-art diagnostics equipment, repair tools and replacement parts.

### Software Updates

Ensure continuous security, extended performance and enhanced functionality of two-way radios, infrastructure and cameras with certified and pre-tested software updates.



## TAKING AIRPORT SAFETY TO THE NEXT LEVEL

It's time to reimagine what safety technology can do for your airport — driving efficiencies, bolstering performance and helping you deliver on your promise of a safe, streamlined and enjoyable experience for travellers.

The Motorola Solutions' Safe Airports integrated technology ecosystem unifies mission-critical technologies to improve safety across your facility while also creating better outcomes in your day-to-day operations.

By bringing together the technologies and solutions you need to detect, analyze, communicate and respond, we're ensuring your airport is better equipped to prevent threats to passengers, employees and cargo from impacting on-time departure. By enabling modern incident and operational management, you can be sure that workers and passengers are safer and can remain focused on the task at hand.

Sources:

<sup>1</sup> EuroControl: Supporting European Aviation



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