

SAFETY
REIMAGINED

Apex
Radio Systems Ltd.

SAFE AIRPORTS

THE INTERSECTION OF TECHNOLOGY AND TRANSPORTATION

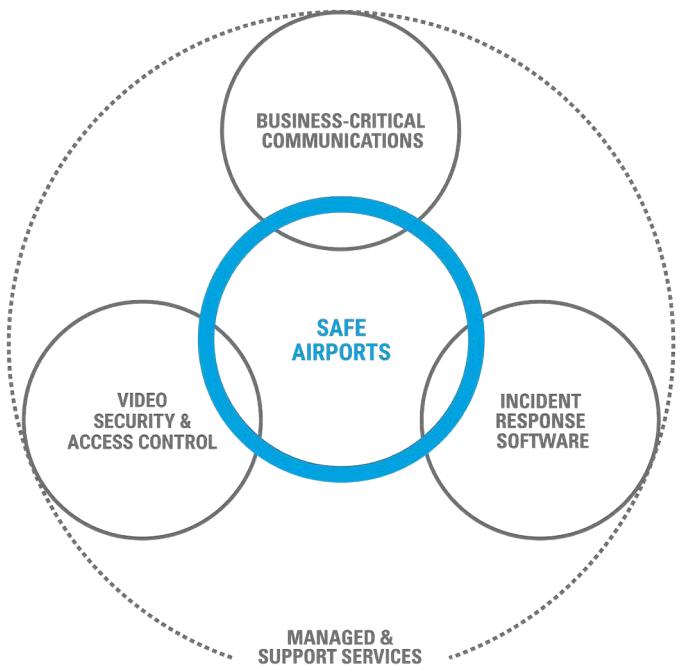
CREATING SAFE AIRPORTS

There are countless reasons an individual could be entering an airport. Whether they are a traveler, a staff member, security personnel or custodian their experience should begin with safety. We envision a world where technology works seamlessly together to combine intelligent awareness solutions with fast, seamless communication to enable not only safety but efficiency, from check in to take off. We call this vision – Safety Reimagined.

At Motorola Solutions, we've made this vision a reality by building a unified and connected technology ecosystem that integrates critical communications, video security, data and analytics and is built on one common operating platform – giving airports the systems they need to detect, analyse, communicate and respond to unfolding incidents or threats.

With so many factors to consider from ensuring that guests have a positive experience, to providing a safe environment and preventing emergencies, airports need a technology ecosystem that provides actionable intelligence and team-specific applications that help automate security, monitor tasks and streamline operational processes.

These intelligence-driven technologies not only help ensure guest and worker safety, but also improve situational awareness, deliver efficiency and enhance communication across all teams. All of which are essential to creating a Safe Airport.



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, Analyse, Communicate and Respond.

We will explore how these pillars work together to address your airports challenges through the example of responding to an unwanted individual on the premises.



DETECT

Safeguarding an entire airport where there are potential incidents and emergencies happening at any given time, is no small feat. From controlling multiple points of entry to monitoring overall safety and surveilling restricted areas, detection plays a critical role in improving situational awareness and decreasing response times to potential issues and operational problems. Integrated video security uses artificial intelligence to create high visibility across your facility all in one view. Access control provides entry management, immediate lockdown capabilities and push notifications to devices. Ensure all personnel — across multiple teams and devices — are automatically informed of critical information simultaneously and automatically when a situation is detected. All of this comes together to provide you with better insights — so you can focus on stopping incidents before they become emergencies.

DETECTION OUTCOMES

Secure Sensitive Areas

Monitor and secure restricted areas using access control and video analytics technologies. Receive instant notifications of an access point breach via text message and text-to-voice alerts on radios, smartphones or any device of choice.

Maintain Proactive Awareness for Suspicious Activity

Enhance visibility across vast areas like parking lots and corridors using our wide-view cameras combined with video analytics technology allowing for a holistic view for any unusual movement such as vehicles driving the wrong direction or loitering.

Be Alerted on Who is Coming In and Out of Airport Grounds

Monitor points of entry to your facility using License Plate Recognition analytics and Watch List Alerting. Whether a banned individual enters the parking lot or a shuttle has arrived on the property, automatically notify all relevant staff to engage the appropriate response plan. Expand on the power of video security analytics by including facial recognition technology.

Get Visibility into Escalating Situations

Protect your staff and guests from interactions with disruptive individuals. Alerts can be sent to appropriate staff directly on their radios and in the security operations centre while footage from fixed video security and body worn cameras can be utilised for situation awareness before responding to an escalating situation.



FEATURED TECHNOLOGY

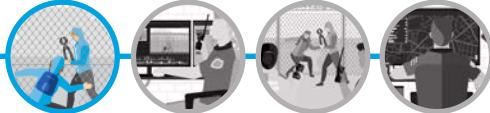
ACCESS CONTROL

Manage access to different buildings or restricted areas within your facilities using a role-based system with instant detection of individuals at access points and camera-based verifications.

VIDEO SECURITY AND ANALYTICS

Deter threats and enhance visibility across the airport with specialised wide-view cameras for every location — such as fisheye cameras for secure areas, multi-sensor for terminals, pan-tilt-zoom for parking lots and runways. Ensure situational awareness is always maintained by sending instant notifications of these analytics to the appropriate individuals on the device of their choice from radios to smartphones and more.

AIRFIELD BREACH - DETECT



Large Areas Monitored With Less

A camera recognises an individual scaling the fence to an airfield and automatically alerts appropriate teams on a device of their choice and in the security operations centre.



ANALYSE

Many people can name the security measures that are most commonly associated with airports, but security personnel know the amount of time, effort and resources that go into the operations happening behind the scenes. Security breaches and potential emergencies are constantly being intercepted. Identifying unwanted individuals, tracking persons of interest, locating nearest resources and containing escalating situations in this environment is a demanding task. Appearance Search capabilities quickly and seamlessly explore video footage to identify persons or vehicles of interest across airport terminals or parking lots. Video analytics detect potentially suspicious or dangerous activity, providing real-time insights into facility-wide movements. The Focus of Attention interface quickly brings your attention to areas of video security interest, increasing efficiency and improving response time when evaluating a situation. Ultimately, these solutions and insights are crucial to cutting through the noise, proactively locating points of interest and recognising which events are important — so you can have eyes on the scene to evaluate and determine the best response possible with greater confidence.

ANALYTIC OUTCOMES

Track and Locate Persons of Interest in Real-time

Pin-point the location of specific individuals within the property to respond to or prevent potential incidents. Using video analytics, security teams can respond quicker to a person of interest by using their appearance, shoes or clothing as an identifying characteristic to begin an area search. Prevent potential escalations by automatically populating relevant cameras if an intruder is identified on the facility and monitor their path of trajectory.

Actively Monitor the Location of Response Resources

Determine your closest resources to an incident for the most efficient and timely response. Whether maintenance is needed to clean up a spill or an emergency is taking place, leveraging the mapping of the real-time GPS location of devices and people can enable your staff to increase their efficiency and promptly respond to any situation at hand.

Quickly Evaluate a Situation on a Single View

Save seconds and have the full story by populating all nearby cameras to an incident with a single click and view all available intelligence aggregated onto a single screen.



FEATURED TECHNOLOGY

Appearance Search

Find who you are looking for faster with video search that can be initiated by selecting specific physical descriptions such as hair or clothing colour, gender and age category or vehicle type and colour.

Video Analytics

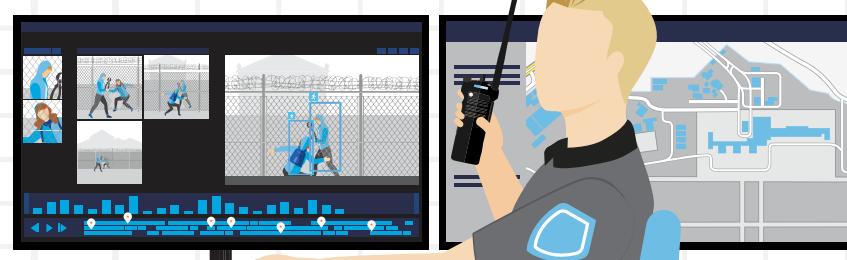
Use advanced pattern-based analytics and teach-by-example technology to proactively monitor and accurately recognise movements of people and vehicles while ignoring motion not relevant to a scene that could pose a safety or operational risk. Additional rules-based analytics help ensure your security staff don't miss important events that need further investigation, such as loitering.

AIRFIELD BREACH - ANALYSE



Appearance Tracked

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



COMMUNICATE

Whether you are routinely communicating across various teams or responding to a major security threat, clear and timely communication is key to keeping your teams connected and informed. Radio communications instantly and reliably connects security, response teams, parking attendants, and local first responders when needed. Broadband push-to-talk with multimedia capabilities extends your reach by enabling voice and data information to be shared across devices to those in other airports or off-site. Mass notification capabilities make it easy to notify and share information with your entire organisation at a moment's notice. Connectivity — across devices, networks and locations — is an important part of ensuring you and your entire team are aware and informed at all times.

COMMUNICATION OUTCOMES

Instantly Share Information Across Multiple Facilities

Distribute intelligence across multiple devices and facilities for seamless communication no matter where your staff is located. Images of unwanted or disruptive individuals or abandoned bags can be shared with a press of a button for an efficient response from your security teams and operations to intercept potential escalations.

Broadcast Mass Notification Alerts To Relevant Groups

Notify and enable your staff at a moment's notice with alerts sent via text, email or voice message from laptops or smartphones. Send images of a concerning incident to multiple groups and teams to provide your staff with the most up to date information.

Manage and Access All Communications From a Single View

Simplify and standardise your dispatch process with streamlined dashboard views and instant communication across multiple devices from a single desktop application.

Transmit Multi-Media Intelligence

Live video and intelligence can be shared with security staff monitoring building entrances to intercept individuals and prevent them from entering the facility. Share images of disruptive or unwanted individuals across your staff and security teams to ensure a seamless share of relevant information over a privately owned broadband network.



FEATURED TECHNOLOGY

MOTOTRBO

MOTOTRBO Ion brings together renowned PTT performance, an open app ecosystem on the Android platform, and access to the Motorola Solutions technology ecosystem — including video security and analytics, and best-in-class network security. With Ion, teams stay connected across networks and devices. Business-critical data and workflows are unified and simplified. And the capabilities your workforce needs to be at their best are always on. An intuitive touchscreen lets you view high resolution images, and an integrated camera lets you send — even stream — photos and videos.

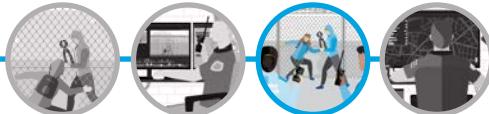
AVTEC SCOUT

Integrate all of your communication center needs, whether simple, highly complex or somewhere in between. Avtec Scout provides easy integration to the widest range of radio/telephony systems such as, conventional and trunked radios, broadband Push-To-Talk, telephony, AUX input/output, IP voice logging recorders and more

WAVE PTX

Share voice and data without boundaries, enabling smart phones with push-to-talk capabilities enhanced with the ability to push details via text, photo, video or file attachment to smartphones, tablets, laptops and even land-lines.

AIRFIELD BREACH - COMMUNICATE



Resources Dispatched

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



RESPOND

Whether it's an everyday incident or an emergency situation, your response teams and facility personnel need to communicate with each other to coordinate a response in the most efficient way possible. Being ready and aware is critical to ensuring your team can quickly respond to incidents or problems before they escalate — decreasing downtime, maintaining productivity and ensuring the health and safety of workers. Dynamic interoperability makes it easy to directly share data with response team personnel in real-time, enhancing situational awareness. Incident management streamlines the logging of incident reports and makes it easy to share multimedia with other personnel when needed and inform future decision-making for safety, security and operational procedures. Work order ticket management makes it easy to track work orders and close out tickets quickly and efficiently directly from your radio. Because enabling rapid response and documenting past incidents can be the key to preventing incidents from becoming tragedies.

RESPONSE OUTCOMES

Dynamically Communicate with Public Safety

Optimise response times to situations and incidents that require additional response resources such as fire evacuations or a man-down emergency. Proactively engage directly with public safety using radio networks to share situational and location intelligence updates before their arrival on scene. Compile and deliver video footage to law enforcement teams for future incident prevention.

Provide Critical Incident Insights

Provide critical incident insights and eyes-on-the-scene with real-time video from your security operations centre to staff in the field. Updates are communicated directly with relevant staff and teams on their devices of choice to ensure the safety of your teams while they respond to everyday incidents and emergency situations.

Document Incidents for Future Prevention

Save time with automatic population of incident data for efficient reporting and documentation. All relevant information and video captured is securely and seamlessly stored and documented and can be shared with security teams, other nearby facilities or public safety.

Increase Workforce Efficiency

Achieve a seamless flow of communication and information across teams with two-way radio communications. Whether support is needed by air traffic control or lost luggage has been located, equipping your staff with the appropriate tools for an efficient response is critical.



FEATURED TECHNOLOGY

Control Room Solutions

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

CRITICAL CONNECT

Easily enable and disable dynamic, seamless and secure temporary communication links between networks with interoperability between response teams and on-site staff, and even with local first responders.

AIRFIELD BREACH - RESPOND



First Response Dispatched

Local police directly informed with video for immediate response and incident logged with pre-populated fields and additional data.



AUTOMATE WORKFLOWS. MANAGE OPERATIONS. CONFIGURE YOUR TECHNOLOGY.

Time is precious. And managing the communications, video and software that comprise your security and operations technology ecosystem can be a time-consuming, challenging task. What if there was a way for you to focus on what matters most, and automate the rest? That's why we created Orchestrate. It's a simple, user-friendly and cloud-based interface tool that gives administrators the ability to configure and automate workflows that control their integrated security technology ecosystem. These intelligent, automated workflows also enhance efficiency as well as improve response times, effectiveness and overall personnel safety. It equips your security network operations teams with the capabilities they need to detect triggers across a number of installed devices and quickly take actions to reduce risk of breaches and downtime by automatically alerting the appropriate teams and executing the proper procedure. Orchestrate makes managing your day-to-day operations effortless by providing a self-service workflow management tool at your fingertips.

KEY FEATURES

Complex Workflows, Simplified.

Our business workflow automation solution, Orchestrate, is designed for your unique ecosystem. It allows you to integrate individual processes, fully manage and optimise workflows, and deliver a consistent response every time. The number and complexity of workflows can scale to meet the needs of your operations. Because Orchestrate is a secure, cloud-based, cross-technology platform, users can access and build customised solutions from anywhere, at any time.

AUTOMATION

Let Intelligent Workflows Do the Work.

Your organisation is being continually challenged to do more with less — and to do it quickly, efficiently and cost-effectively — all while protecting people's safety. When you are able to immediately recognise and respond to threats and unexpected events, you are able to focus on the work at hand. Ensuring nothing is missed. From simple machine-assisted decision-making to complex workgroup action and event management, Orchestrate empowers you to address the unique challenges of your operation, automatically. All so you can keep your focus on what matters most.

EMPOWER YOUR OPERATIONS

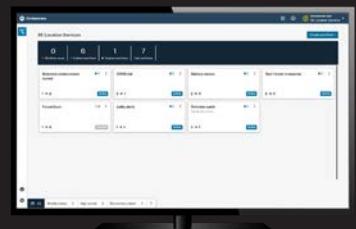
Address the Unique Challenges of Your Operation, Automatically.



HOW ORCHESTRATE WORKS

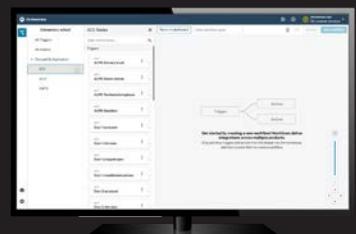
Self-service workflow creation.

Administrators can create rule-based, automated workflows between their technology sleeves to enhance efficiency as well as improve response times, effectiveness and overall safety.



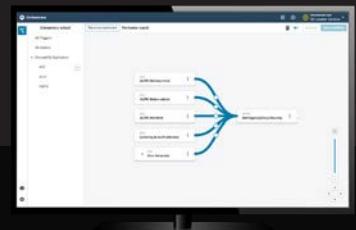
EXPLORE

Easily scale operational views for effective workflow management



DEFINE

Establish business logic with a simple-to-use, graphical interface



CONFIGURE

Create automated workflows for machine-assisted decision-making



ACTIVATE

Leverage analytics to trigger conditional logic, thereby alerting and informing relevant teams





CHECK OUT YOUR FULL SUITE OF COMMUNICATION OPTIONS

For the safest, most efficient operations and the best outcomes, employees need technology that is intuitive to use, integrates with ease, automates manual steps, and allows them to focus on the tasks or events that matter most. They also need technology that has their backs, ensuring that the facts of a situation, from slips and falls, to propped doors, to a breach of a secure area, assault, or other crimes are supported by hard evidence.

- With the Motorola Solutions full communications ecosystem
- Radio and broadband communications interoperate
- Software solutions are integrated from end-to-end
- Notifications are pushed across various devices

Video is captured and analysed with insights intelligently shared via radios and other devices.

This means, your staff is enabled to do more with less during times when your facility is experiencing resource shortages.

That same suite of technology that helps security personnel ensure the safety of guests and staff can increase team productivity and morale, all while ensuring that the analytics, video security, and team communication that was used to intercept an emergency is being used to improve operations and create a safer environment for tomorrow.

ON AVERAGE, 1 INTRUDER BREACHES AIRPORT PERIMETERS EVERY 13 DAYS IN THE US.

*According to a study conducted by the Associated Press

Learn more at:

motorolasolutions.com/safeairports

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Availability is subject to individual country law and regulations. All specifications shown are typical unless otherwise stated and are subject to change without notice. Camera footage is for illustrative purposes only.

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