



SAFE STADIUMS

KEEP UP WITH THE SPEED OF TECHNOLOGY ON ONE UNIFIED PLATFORM



CREATING SAFE STADIUMS

From sporting events to live concerts, the world's stadiums host millions of visitors each and every year. Creating a positive and secure visitor experience while maintaining efficient, streamlined operations is the promise stadiums make.

But delivering on this promise is only achievable with a foundation of safety. Everything starts with safety. It's the centre that holds stadium 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 in a single platform. Our Safe Stadiums solution provides you with the foundation of safety you need by addressing the unique challenges of your facility.

We've also reimagined how the technologies used to help keep stadiums safe, can do even more — driving efficiencies, improving productivity and providing better outcomes. Because safety, efficiency and productivity are deeply interconnected. With the right technologies, you can be faster, smarter, more focused and 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 Stadiums technologies come together to efficiently keep staff and visitors secure — providing the certainty of safety you need to deliver on your promise. Reassuring everyone who comes through your gates 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. So you can remain focused on what's most important — efficiently bringing fans through the turnstiles, continually stocking food outlets with favorites and, ultimately, creating a lively and entertaining atmosphere for visitors.



DETECT



ANALYZE



COMMUNICATE



RESPOND

EXAMPLE USE CASE: BANNED INDIVIDUAL

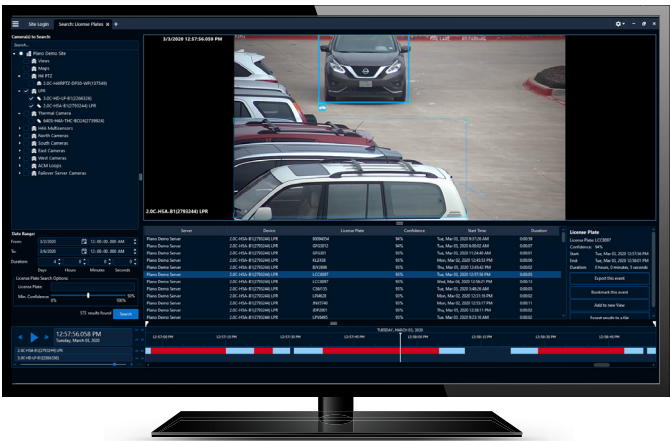
Our Safe Stadiums integrated ecosystem allows you to address everyday concerns as well as emerging situations through the four pillars — Detect, Analyze, Communicate and Respond. We will explore how these pillars work together to address your stadium's challenges through the example of enforcing a banned individual.



DETECT

Overseeing a large, multifaceted facility can be a challenge. From managing and streamlining guest and staff entries to ensuring the safety of widespread perimeters, detection plays a critical role in minimizing potential threats at your facility.

Integrated video security utilizes artificial intelligence to enhance visibility across your facility, monitor critical areas in one view and recognize potential security gaps. Access control provides entry management for guests and staff, access point detection and push notifications for door alarm activities making it easy to monitor widespread perimeters. Radio alerts ensure all personnel — across multiple teams — are informed of critical information simultaneously.



License Plate Recognition

DETECTION SOLUTIONS

License Plate Recognition

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

Video Security

Deter threats and enhance visibility across all your perimeter with artificial intelligence and specialized cameras for every location — fisheye for secure areas, multi-sensor for corridors, and ultra high-definition for parking lots and stands.

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.

Access Control

Protect critical and secure areas, manage fan and staff access, and streamline entry processes using a role-based system with instant detection of individuals at access points and camera-based verifications.

Radio Alert

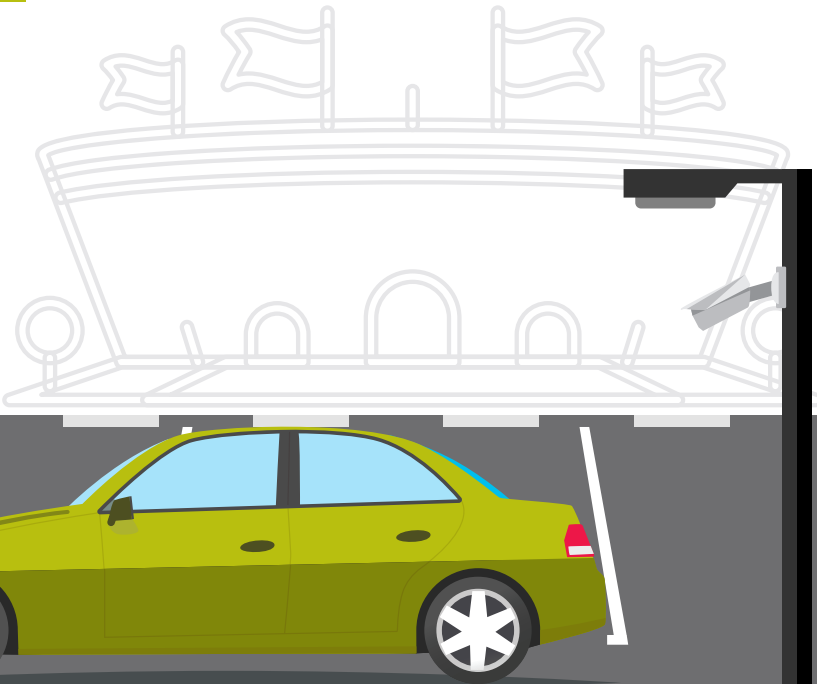
Instantly receive video analytic and access control alerts directly to your two-way radio via text message and text-to-voice alerts — including license plate recognition, breaches, loitering and presence detection.

BANNED INDIVIDUAL - DETECT



Known Person Identified

Using an existing database, an automatic license plate reader recognizes a banned individual's vehicle entering the stadium parking lot and alerts stadium operations.



ANALYZE

You're responsible for monitoring a large and diverse facility filled with secure areas, public areas, critical equipment and thousands of guests and employees. Scouring through collected data in order to recognize concerns across your stadium is a demanding and time-consuming task. Technology can help simplify that process.

Appearance searches quickly and seamlessly explore video footage to track persons of interest moving through your facility and recognize flagged individuals. Unusual motion detection reveals atypical behaviors and events which need investigating. Integrated access control and identity search provides real-time insights into personnel movements, making it easy to find a person's last known location in your stadium.

Ultimately, these solutions and insights are crucial to cutting through the noise and highlighting important events and points of interest 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

Turn unknowns into insights and reveal anomalies that may pose security or safety risks with artificial intelligence that "learns" typical stadium activities 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.

BANNED INDIVIDUAL - ANALYZE



Movement Tracked

Using appearance recognition from a watchlist, the individual is confirmed as being banned and using appearance search their movements are automatically tracked as they approach the stadium.



COMMUNICATE

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

Broadband push-to-x extends your reach by enabling voice and data information to be shared across devices and teams. Two-way radio communications instantly and reliably connect security, administration, staff, third party personnel and local first responders. 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 stadium's specific needs.

BANNED INDIVIDUAL - COMMUNICATE



Notification Communicated

The nearest entry gate security personnel are notified with an alert and an image of the individual.



RESPOND

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

Incident management streamlines the logging of incident reports, aggregates information feeds to unify data and evidence storage, and makes it easy to share multimedia with other personnel. Mass notification capabilities make it easy to notify and share information with guests and personnel at a moment's notice.

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 stadium security.

BANNED INDIVIDUAL - RESPOND



Incident Managed and Reported

Stadium operations monitors the situation via video and the security personnel prevent the individual from entering. An incident report is logged with relevant 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.

50K

The top ten football stadiums in Europe all have an average attendance greater than 50,000¹.

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 STADIUM SAFETY TO THE NEXT LEVEL

It's time to reimagine what safety technology can do for your stadium — driving efficiencies, bolstering performance and helping you deliver on your promise of an efficient, safe and enjoyable experience for all guests.

Motorola Solutions' Safe Stadiums 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 stadium is better equipped to prevent threats and enabling modern incident and operational management. Video technologies that capture the present, survey large crowds and see the unseen. Advanced software that centralizes command amid chaos. Mission-critical communications that connect across devices and networks so your team is always informed. All amplified by integrated analytics that quickly identify points of interest across widespread areas. All integrated to empower you to keep your finger on the pulse of your venue keeping visitors, staff and vendors safe and secure.

Sources:

¹ The Stadium Guide



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