SAFE STADIUMS

KEEP UP WITH THE SPEED OF TECHNOLOGY ON ONE UNIFIED PLATFORM

MOTOROLA SOLUTIONS

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 center 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.
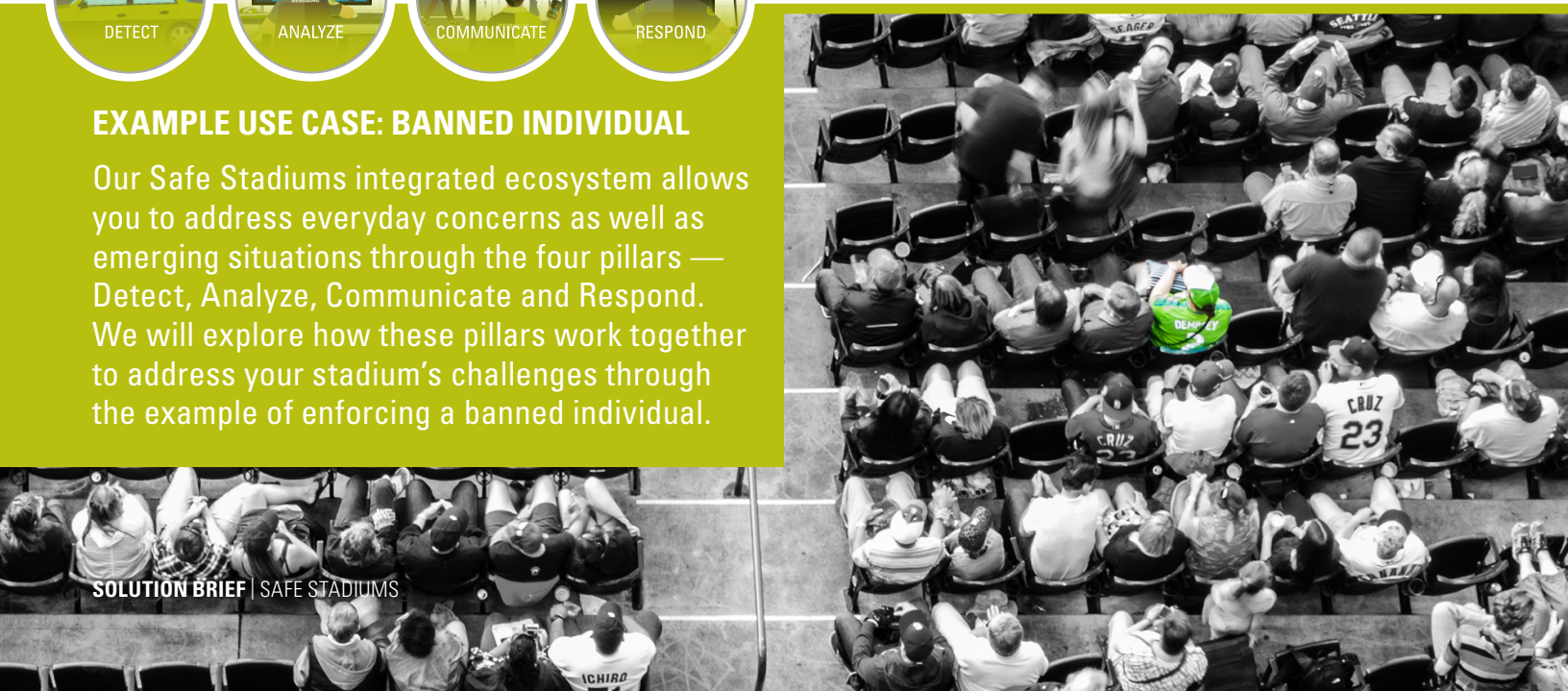
Because when technologies communicate and learn from each other, safety and performance improve across your entire enterprise. Intelligence advances outwards, giving you eyes and ears where you've never had them before. Information flows where it's needed — from cameras, to radios, to smart devices, to command centers — 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.

MISSION-CRITICAL COMMUNICATIONS

SAFE STADIUMS

VIDEO SECURITY & ANALYTICS

COMMAND CENTER SOFTWARE

MANAGED & SUPPORT SERVICES

DETECT   ANALYZE   COMMUNICATE   RESPOND
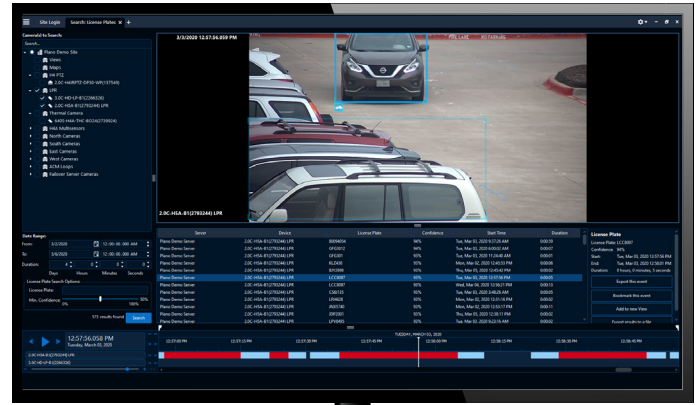
EXAMPLE USE CASE: BANNED INDIVIDUAL

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. Anonymous tip submissions provide insights into the unseen and enables fans to report suspicious packages, items and behaviors. Radio alerts ensure all personnel — across multiple teams — are informed of critical information simultaneously.

License Plate Recognition

DETECTION SOLUTIONS

Anonymous Tipping
Empower fans to "say something" at any time from their smartphone via a web–based form or text message with multimedia attachments – protecting others and alerting personnel for a rapid response.

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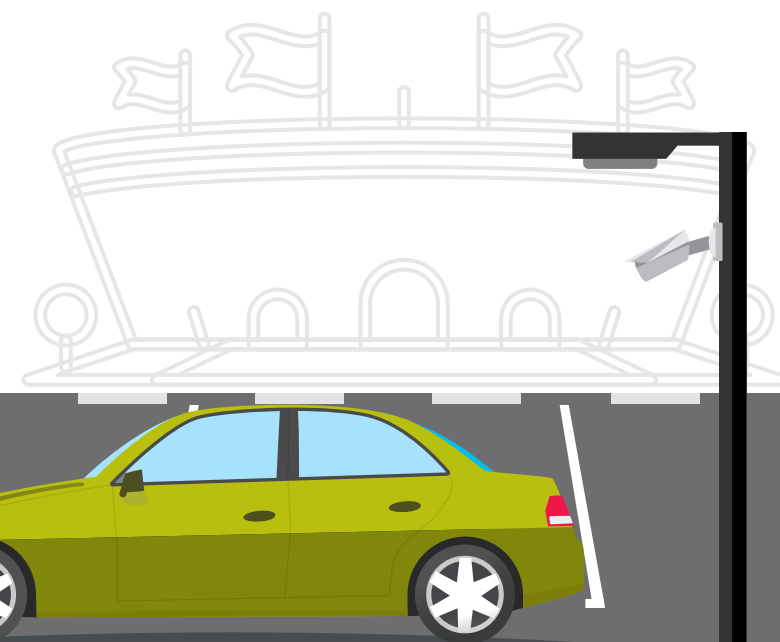
Radio Alert
Instantly receive video analytic and access control alerts directly to your two-way radio via text message and text-to-voice alerts – including license plate recognition, breaches, loitering and presence detection.

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.

SOLUTION BRIEF | SAFE STADIUMS

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 color, 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 color-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.

SOLUTION BRIEF | SAFE STADIUMS

COMMUNICATE

Whether it's a typical day of funneling 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 rugged two-way radios that deliver superior voice clarity, rugged design, long battery life and outstanding range — ensuring personnel can hear and be heard. Additionally, transmit multimedia and data rich intelligence on your two-way radios using broadband enabled, purpose built, radio devices.

WAVE PTX: Broadband Push-to-Talk

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.

CBRS Private LTE (NITRO)

Share multimedia and data across your facilities with enterprise-grade private broadband managed via a cloud-based portal that provides twice the capacity and up to four times the range of Wi-Fi.

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.
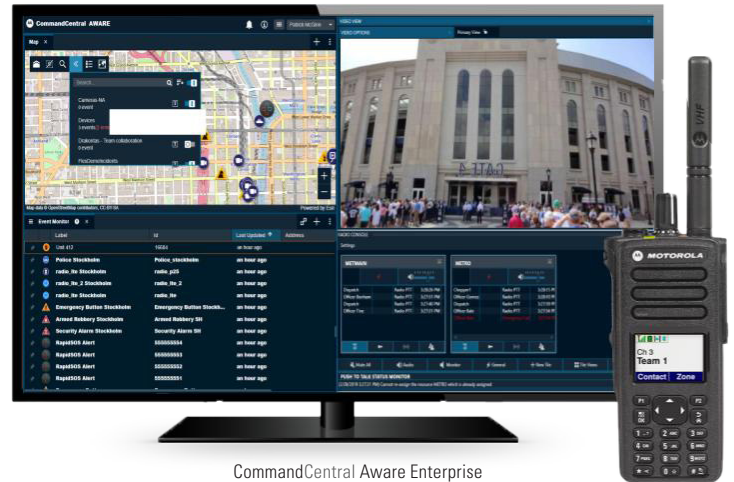

SECURITY

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

CommandCentral Aware Enterprise

RESPOND SOLUTIONS

CommandCentral Aware Enterprise
Provide critical incident insights and eyes-on-the-scene with real-time video, resource location information, streamlined incident intelligence and direct communication connections between your facility and local law enforcement.

Communicator: Mass Notification
Notify and mobilize critical personnel at a moment's notice with automated alerts sent by text, email or voice message from laptops or smartphones, ensuring easy information sharing across groups.

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

Body-Worn Camera
Protect your team with an integrated video solution that captures high quality video evidence through a powerful mix of capabilities including live streaming and automated recording.

Ally Incident Management & Records
Streamline incident and records management end-to-end with customizable records, multimedia attachments and analytics-driven trend reports, all accessible from web-enabled devices.

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 automatically logged.

AUTOMATE WORKFLOWS. MANAGE OPERATIONS. CONFIGURE YOUR TECHNOLOGY.

Get it done with Orchestrate.

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 optimize 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 customized solutions from anywhere, at any time.

AUTOMATATION

Let intelligent workflows do the work.

Your organization 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 recognize 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.

AUTOMATE WORKFLOWS	IDENTIFY BOTTLENECKS	BOOST PRODUCTIVITY	INCREASE FOCUS	IMPROVE TRANSPARENCY
Expand reach	Minimize inefficiencies	Reduce manual effort	Focus on high value activities	Track status at every stage

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.
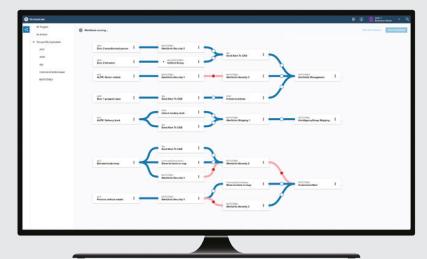

EXPLORE

Define business logic with a simple to use, single-pane graphical interface

CONFIGURE

Create automated workflows for machine-assisted decision-making

ACTIVATE

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

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.

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.

Food and beverage sales of top U.S. stadiums top
$59 MILLION
in annual revenue.[1]

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 identifies 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:
1Technomic

Learn more at:
motorolasolutions.com

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