

SAFETY
REIMAGINED

Apex
Radio Systems Ltd.

SAFE HOSPITALS

SAFETY AND COLLABORATION DURING
HEALTHCARE'S VITAL MOMENTS

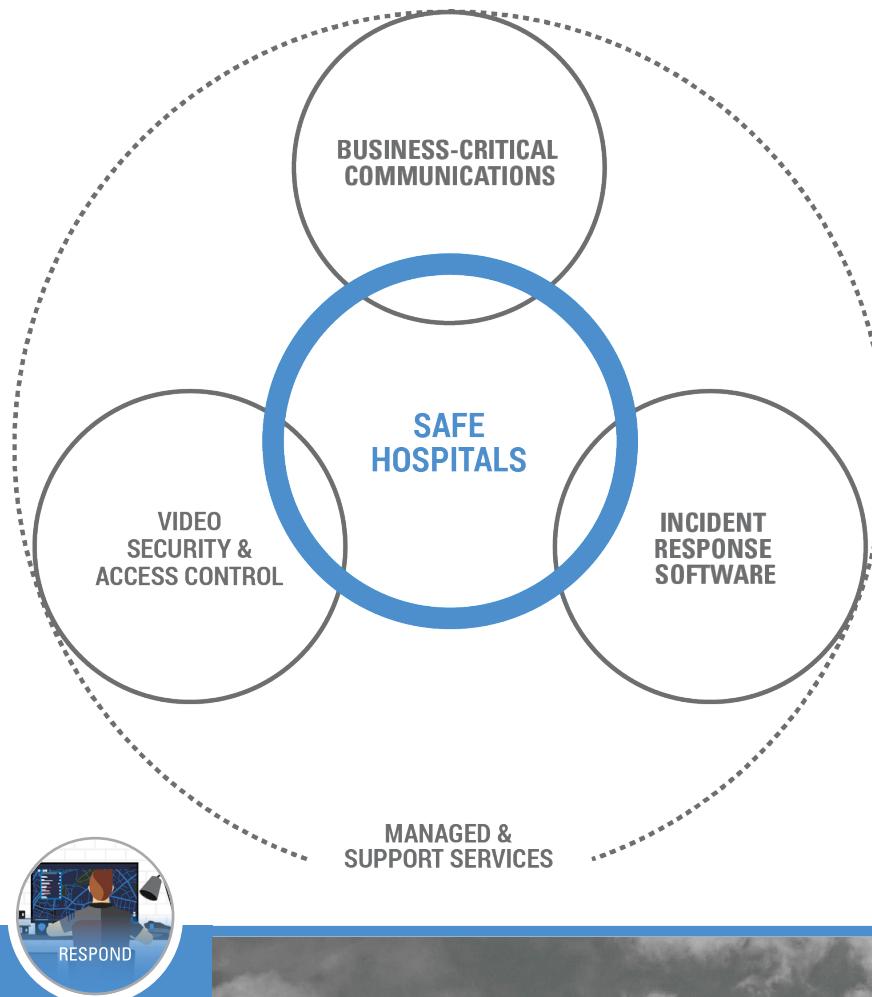
CREATING SAFE HOSPITALS

There are countless reasons an individual could be entering a healthcare facility. Whether they are a patient, a healthcare worker, security staff 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 intake to discharge. 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 hospitals the systems they need to detect, analyse, communicate and respond to unfolding incidents or threats.

With so many factors to consider from cultivating the safest working environment and preventing emergencies, hospitals 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 help ensure patient and worker safety, improve situational awareness, deliver efficiency and enhance communication across all teams. All of which are vital to creating a safe hospital.



EXAMPLE USE CASE: PERIMETER BREACH

Our Safe Hospitals 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 facility's challenges through the example of responding to an unwanted individual on the premises.



DETECT

Safeguarding an entire hospital where there are various events happening at any given time, is no small feat. From controlling multiple points of entry to monitoring staff safety and surveilling restricted areas, detection plays a critical role in improving situational awareness, 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 of Your Facility

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

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.

Be Alerted on Who is Coming In and Out of Your Facility

Monitor points of entry to your facility using Licence Plate Recognition analytics and Watch List Alerting. Whether a banned individual enters your parking lot or a private ambulance service 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 members and patients from interactions with disruptive individuals. Alerts can be sent to appropriate staff directly on their radios and in the security operations room 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 your facilities with specialised wide-view cameras for every location — such as fisheye cameras for secure areas, multi-sensor for corridors and pan-tilt-zoom for parking lots. Ensure situational awareness is always maintained by sending instant notifications of these analytics to the appropriate individuals.

PERIMETER BREACH - DETECT



LICENCE PLATE RECOGNISED

An employee's ex-spouse with a history of violence detected entering hospital grounds using licence plate recognition and an alert is automatically sent to appropriate staff on their device of choice and to the security operations room.



ANALYSE

Hospitals are often associated with safety, but those involved in the safeguarding of these facilities know that 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 your hospital grounds or parking lot. Video analytics detect potentially suspicious or potentially 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 SOLUTIONS

Track and Locate Persons of Interest in Real-time

Pin-point the location of specific individuals within your property to respond to or prevent potential incidents. Using video analytics, security teams can respond quicker to a reported unwanted individual on the premises 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 your 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. 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.

PERIMETER BREACH - ANALYSE



APPEARANCE DETECTED

Using a watch list, the intruder is automatically located approaching the hospital and identified as the ex-spouse. Security receives a notification every time the intruder comes into view of a camera to monitor their movements.



COMMUNICATE

Clear and timely communication is key to keeping your teams connected and informed. Radio communications instantly and reliably connects security, staff, and local law enforcement 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 sister-facilities 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 SOLUTIONS

Instantly Share Information Across Multiple Teams or Facilities

Distribute intelligence across multiple devices and facilities for seamless communication no matter where your staff is located. Images of unwanted or disruptive individuals 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 Staff

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 lost person or disruptive guest across 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.

FEATURED TECHNOLOGY

MOTOTRBO RADIOS

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.

WAVE PTX/TLK

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.

PERIMETER BREACH - COMMUNICATE



NOTIFICATION COMMUNICATED

Nearest security resources dispatched with location and images of the unwelcome individual.



RESPOND

You need to communicate with each other to coordinate a response in the most efficient way possible. Being ready and aware is critical to ensuring you respond to whatever situations may arise. Patient experience will be enhanced when your valued staff are equipped with the right tools for maintaining efficiency as well as a sense of security. Dynamic interoperability makes it easy to directly share data with public safety response teams in real-time, enhancing situational awareness. Incident management streamlines the logging of incident reports. This makes it easy to associate multimedia with the reports and inform future decision-making. Enabling rapid response and documenting past incidents can be the key to preventing incidents and creating a safer hospital.

RESPONSE OUTCOMES

Dynamic Communication with Public Safety

Optimise response times to situations and incidents that require additional emergency response resources. 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 room 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, sister facilities or public safety.

Increase Workforce Efficiency

Achieve a seamless flow of communication and information across teams with two-way radio communications - 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

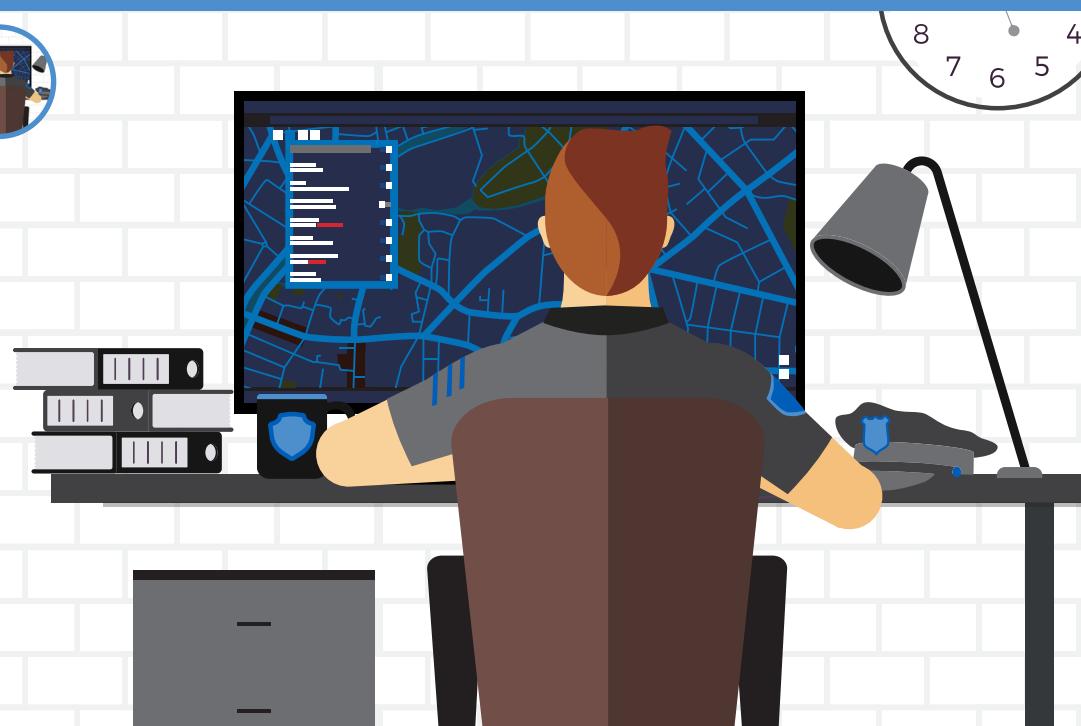
Easily enable and disable dynamic, seamless and secure temporary communication links between networks with interoperability between response teams and on-site staff, and even with local first responders.

PERIMETER BREACH - RESPOND



FIRST RESPONSE DISPATCHED AND INCIDENT DOCUMENTED

Security teams approach the intruder wearing body-worn cameras and local police directly engaged. Incident logged with pre-populated fields and relevant data.



AUTOMATE WORKFLOWS. CONFIGURE YOUR TECHNOLOGY. ELEVATE THE GUEST EXPERIENCE

Time is precious. Managing the communications, video and software that comprise your security and operations technology ecosystem can be time-consuming, and a 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

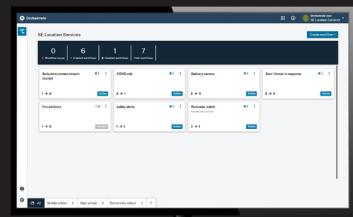
Address the unique challenges of your operation, automatically.



HOW ORCHESTRATE WORKS

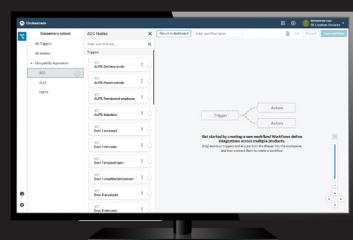
Self-service workflow creation.

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



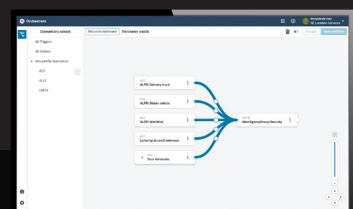
EXPLORE

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.

That same suite of technology that helps security personnel ensure the safety of patients 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.

Learn more at:
motorolasolutions.com/safehospitals

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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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**75% of nearly
25,000**
workplace assaults
occur annually in
healthcare settings.

* Source: American Journal of Managed Care


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