

THE PROMISE OF A MODERN HOSPITAL





Provide patients and families the finest medical care and best experience possible.



EFFICIENT OPERATIONS

Maximize resources to treat as many patients as possible while maintaining quality of care.



SAFETY & SECURITY

Create a workplace across one or multiple facilities built on a foundation of safety for all staff, visitors and patients.

The promise to efficiently provide the highest level of care is only possible in an environment built on a foundation of safety.

THE PROMISE OF A MODERN HOSPITAL





Provide patients and families the finest medical care and best experience possible.

\$25-\$45 bil

Spent on avoidable complications and unnecessary hospital readmissions

- Health Catalyst



EFFICIENT OPERATIONS

Maximize resources to treat as many patients as possible while maintaining quality of care.

\$80.5K

Average profit for hospitals per inpatient bed

- Becker's Healthcare



SAFETY & SECURITY

Create a workplace across one or multiple facilities built on a foundation of safety for all staff, visitors and patients.

75%

of workplace assaults occur in healthcare settings.

- Occupational Safety and Health Administration

The promise to efficiently provide the highest level of care is only possible in an environment built on a foundation of safety.

THE CURRENT ENVIRONMENT BY THE NUMBERS





20.6 MIL

Individuals that will likely require hospitalization due to COVID-19

- Journal of Health Affairs

The COVID-19 pandemic are causing a great deal of strain on hospital resources so funding and staff must be maximized



67%

Hospitals planned to invest in video surveillance solutions

- Campus Safety Hospital Security Survey, 2018

Having a modern hospitals video surveillance system is recognized across the industry as a necessity with most having plans to update antiquated systems.



70%

Emergency physicians and nurses report being physically assaulted at work.

- American College of Emergency Physicians

Security threats are prevalent and pose a real risk not only to the safety of caregivers but also negatively impacts the quality of care patients receive

MODERN CHALLENGES



44

How can we uncover potential threats and operational problems?

Control multiple points of entry/exit Monitor at-risk patient movements Secure and monitor sensitive areas 44

How can we recognize important events and locate points of interest?

Identify unwanted persons
Automatically track people of interest
Recognize hazardous situations

44

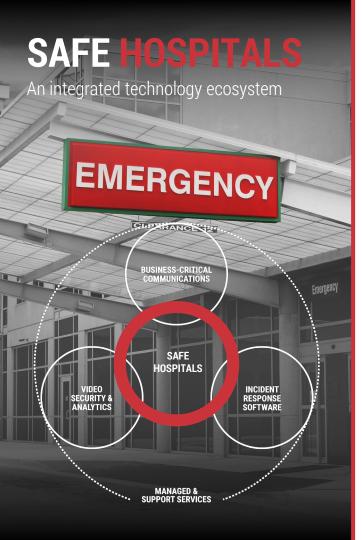
How do we connect all workgroups that need to collaborate?

Share information across devices Coordinate with local first responders Alert multiple teams simultaneously 44

How can we quickly respond to problems before they escalate?

Aggregated information feeds
Directly share data with first responders
Efficiently log incident reports







Instant voice communications to reliably connect teams across facilities and workflows.

Video analytics technologies to recognize important events and respond before they escalate.

Advanced software to centralize command everyday and during emergencies.

Support services that are always there to maintain systems for today and into the future.

Technology unified by a common orchestration platform built to empower you to address the unique challenges of your hospital

FACING MODERN CHALLENGES



DETECT

Video Security
Watch List Creation and Alert
Access Control

Know what is happening with better insights to protect people, property & assets.



ANALYZE

Appearance Search
Identity Search
Unusual Motion & Activity Detection

Recognize which events are important, locate points of interest & make informed decisions to take action.



COMMUNICATE

Two-way Radio Platforms Broadband Push-to-X Private LTE

Communicate instantly across devices & networks to keep teams connected and informed.



RESPOND

Situational Intelligence Dynamic Interoperability Incident & Records Management

Simultaneously mobilize and coordinate an immediate response internally and with public safety.

Technology that operates seamlessly together across workflows to ensure an environment of safety and maintain business continuity when incidents arise.



THEFT FROM SECURE AREA

Use Case

Police arrest hospital aide in thefts of equipment, supplies

April 4, 2020,

A hospital has numerous secure areas within their facilities that contain sensitive and critical inventory and patients. Hospitals must ensure that these areas are constantly secured and monitored to prevent staff and visitors from unauthorized access and theft.



CRITICAL INVENTORY THEFT

Use Case





DETECT

ACCESS CONTROL BREACH RECOGNIZED

Alert sent to security of forced entry detected in secure storage area.



ANALYZE

APPEARANCE CAPTURED

Relevant cameras instantly populate and intruder is identified and tracked through facility using their appearance.



COMMUNICATE

NOTIFICATION COMMUNICATED

Alert sent across radios and smartphones to monitor all hospital exits in proximity to the breached area. Image and location of individual is shared with security.



RESPOND

FIRST RESPONSE DISPATCHED

Local police directly alerted with video for situational awareness and incident logged with pre-populated fields and relevant data.

CRITICAL INVENTORY THEFT

Use Case





DETECT

- Avigilon Cameras
- Access Control Manager
- Radio Alert



ANALYZE

- Avigilon Cameras
- Appearance Search
- Avigilon Control Center



COMMUNICATE

- Radio Communications
- WAVE / Broadband Push To Talk
- Dispatch



RESPOND

- Ally Incident Management
- CommandCentral Aware Enterprise
- Critical Connect

PERIMETER BREACH

Use Case

Suspect in triple killing at Chicago hospital had confronted doctor who broke off their engagement: Officials

abcNEWS

November 20, 2018, 6:14 PM

Knowing who is approaching and inside of your hospital is vital to preventing incidents before they occur. Hospitals need to be able to quickly recognize and respond to potential threats the moment they are revealed.

PERIMETER BREACH

Use Case



DETECT

LICENSE PLATE RECOGNIZED

An employee's ex-spouse with a history of violence detected entering hospital grounds using license plate recognition.



ANALYZE

APPEARANCE DETECTED

Unwarranted individual recognized exiting vehicle and approaching the main entrance. Individual appearance captured and their movements are automatically monitored.



COMMUNICATE

NOTIFICATION COMMUNICATED

Alert automatically sent across security teams and nearest security resources dispatched with location and images of an unwelcome individual.



RESPOND

FIRST RESPONSE DISPATCHED AND INCIDENT DOCUMENTED

Local police directly alerted with video for situational awareness and incident logged with pre-populated fields and relevant data.

PERIMETER BREACH

Use Case



DETECT

- Avigilon Cameras
- License Plate Recognition
- Avigilon Control Center
- Radio Alert



ANALYZE

- Avigilon Cameras
- Watchlist
- Radio alert
- Appearance Capture and Search



COMMUNICATE

- Radio Communications
- WAVE / Broadband Push To Talk
- Dispatch
- CommandCentral Aware Enterprise



RESPOND

- Ally Incident Management
- CommandCentral Aware Enterprise
- Critical Connect

ELEVATED SKIN TEMPERATURE DETECTION

Use Case

Hospitals need an effective and efficient way to monitor the health of visitors who enter their facility, especially during times of a public health crisis. Video analytics can empower security operations teams to screen more people in less time than manual alternatives.



ELEVATED SKIN TEMPERATURE DETECTION

Use Case



DETECT

ELEVATED SKIN TEMPERATURE DETECTED

A thermal camera at a main hospital entrance detects a visitor with elevated skin temperature and automatically alerts the security operations center.



ANALYZE

TEMPERATURE ALERT VERIFIED

The security operations center acknowledges the alert and identifies the visitor with elevated skin temperature.



COMMUNICATE

RESOURCES DISPATCHED

Agents at the entrance are notified of the individual and a medical professional is dispatched to the checkpoint.



RESPOND

SITUATION RESOLVED

The individual is discreetly isolated and a medical screening is conducted and an incident report is logged with pre-populated fields.

ELEVATED SKIN TEMPERATURE DETECTION

Use Case



DETECT

- Avigilon Cameras
- Avigilon Control Center
- Elevated Temperature Detection



ANALYZE

- Avigilon Cameras
- Avigilon Control Center



COMMUNICATE

- Radio Communications
- WAVE / Broadband Push To Talk
- Dispatch



RESPOND

Ally Incident Management

PATIENT ELOPEMENT

Use Case

PATIENT ELOPEMENT: WIDESPREAD, BUT RARELY DISCUSSED

BY JENNIFER THEW RN | DECEMBER 06. 2016

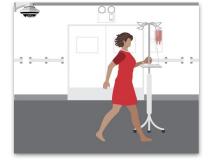
HealthLeaders

Psychiatric and otherwise unstable patients can often leave their rooms and pose a risk to themselves or others. Hospitals need to be able to quickly identify and locate missing patients to prevent potential incidents.



PATIENT ELOPEMENT

Use Case



DETECT

CAMERAS SURVEILLED CORRIDORS

Security retroactively searches footage for the reported patient leaving their room.



ANALYZE

APPEARANCE SEARCH ON CAMERAS

Security uses the found image of the patient to automatically search all cameras to track movement and determine their location.



COMMUNICATE

TEAMS COORDINATED

Closest security officer or hospital staff to the patient is determined and dispatched to retrieve the patient.



RESPOND

INCIDENT RECORDED

Hospital security rendered the patient safe in a timely manner and an incident report is securely logged.

PATIENT ELOPEMENT Use Case



DETECT

- Avigilon Cameras
- Radio Communications
- WAVE / Broadband Push To Talk
- Avigilon Control Center



ANALYZE

- Avigilon Cameras
- Appearance Search
- Avigilon Control Center



COMMUNICATE

- Radio Communications
- WAVE / Broadband Push To Talk
- Dispatch
- CommandCentral Aware Enterprise



RESPOND

- Ally Incident Management
- CommandCentral Aware Enterprise

ESCALATING SITUATIONS

MAKING EVERY SECOND COUNT

First responders typically respond to a call within 8 minutes, arriving with minimal information.

Every moment which enables earlier warning and better information is a moment that counts.

Integrated technology can help prevent incidents from becoming tragedies.



VIOLENT BEHAVIOR

Use Case

Man With Gun At Round Rock ER Demanded Mental Health Treatment

ER waiting rooms are one of the main publicly accessible areas in a hospital. Situations that occur there can often escalate and pose a larger security threat to hospital staff and patients as well as disrupt hospital operations.



ER WAITING ROOM INCIDENT

Use Case



DETECT

UNUSUAL MOTION RECOGNIZED

Erratic driving detected in the parking lot outside of ER and security is alerted and relevant cameras are automatically populated.



ANALYZE

APPEARANCE CAPTURED

Security monitors individual exit the car and image of individual is captured as they enter the ER with a weapon drawn.



COMMUNICATE

NOTIFICATION COMMUNICATED

Alert sent across radios and smartphones to inform all relevant security teams of the situation with image of intruder.



RESPOND

FIRST RESPONSE DISPATCHED

Local police directly alerted with video for situational awareness and incident logged with pre-populated fields and relevant data.

ER WAITING ROOM INCIDENT

Use Case



DETECT

- Avigilon Cameras
- Unusual Motion Detection
- Radio Alert
- Avigilon Control Center



ANALYZE

- Avigilon Cameras
- Avigilon Control Center



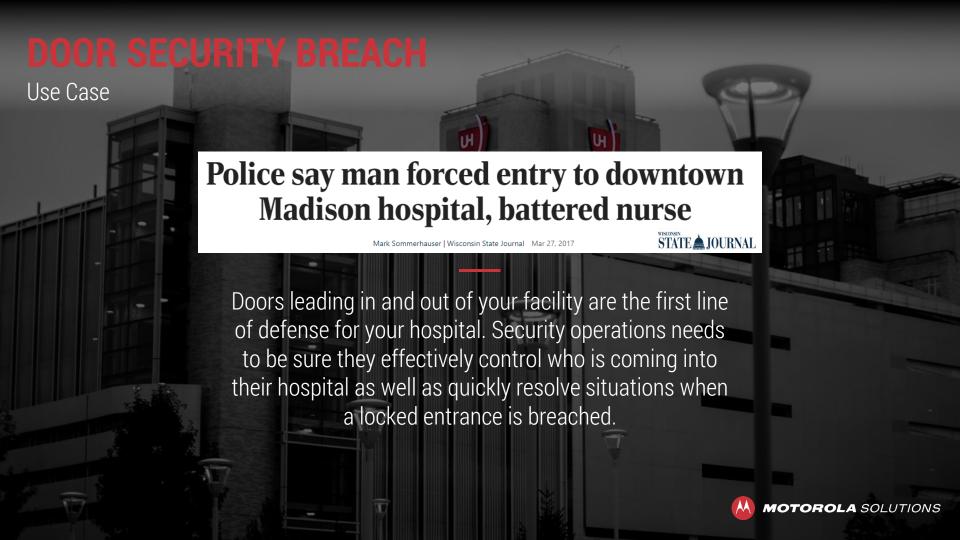
COMMUNICATE

- Radio Communications
- WAVE / Broadband Push To Talk
- Dispatch



RESPOND

- Ally Incident Management
- CommandCentral Aware Enterprise
- Critical Connect





Use Case





ACCESS CONTROL BREACH RECOGNIZED

Alert sent to security about locked door breach and relevant cameras automatically populate in security operations center.

ANALYZE



APPEARANCE IN HALL DETECTED

Situational awareness maintained as intruder appearance is identified and monitored throughout the facility.

COMMUNICATE



NOTIFICATION COMMUNICATED

Alert automatically sent to security staff on their devices and nearest hospital security dispatched with image and location of intruder.

RESPOND



RESOURCES DISPATCHED

Security operations initiates a sitewide lockdown and police directly engaged for immediate first response and incident automatically logged.

VEHICLE BURGLARY

Use Case

Thieves break into nurses' cars at Boston Children's Hospital in 'disturbing' incident April 13, 2020

Boston Herald

Hospital parking lots and garages are expansive and can extend far beyond the immediate perimeter of the hospital. Providing network coverage to these remote lots for video security technology poses a unique challenge for hospitals leaving these often targeted areas vulnerable and ineffectively monitored. Hospitals need a way to effectively cover these areas with video solutions and network backhaul to better respond to and prevent vehicle break-ins and thefts.



VEHICLE BURGLARY Use Case

DETECT



UNUSUAL MOTION DETECTED

Using video analytics, an HD camera recognizes suspicious movement in a remote parking lot and alerts security operations via a CBRS network.

ANALYZE



MOVEMENT TRACKED

Security operations observes the flagged individuals attempting to breakin to vehicles. Their appearance is captured and tracked as they move through the parking lots.

COMMUNICATE



NOTIFICATION COMMUNICATED

From the security operations center, the nearest security team member is notified and provided an image of the individuals.

RESPOND



INCIDENT MANAGED AND REPORTED

Public safety is notified and security personnel apprehend the individuals with the help of security operations providing real time movement information over their radio from video feeds.

