

MANAGING TODAY'S CHALLENGES

44

How do we know who's coming to our school?

44

How do we keep an eye on thousands of students?

ZZ

How do we stay connected and keep people informed?

44

How can we provide eyes-on-scene from anywhere?



DETECT

TipSubmit
Video Security
Licence Plate Recognition
Watchlist Alerting
Access Control
Radio Alert



ANALYZE

Appearance Search
Identity Search
Unusual Motion Detection
Focus of Attention
Self-Learning Video Analytics



COMMUNICATE

MOTOTRBO Two-way Radios WAVE Push-to-talk Communications Communicator: Mass Notification Ally Dispatch



RESPOND

Ally Incident Management & Records CommandCentral Aware P25 Mission-Critical Communications Critical Connect Access Control for Emergency Response



CREATING SAFE SCHOOLS

We bring together the technologies you need in order to know who's on the school grounds, keep an eye on students and easily connect with students, parents, staff, community members and local law enforcement.











SOLUTIONS

TipSubmit

Video Security

License Plate Recognition

Watch List Alerting

Access Control

Radio Alert

HIGH-PRIORITY APPLICATIONS

Empower students to help protect their community

Deter antisocial behavior and create high visibility across campus

Monitor and identify authorized and unauthorized vehicles

Establish facial alert lists and awareness of known individuals

Protect ingress / egress points and tighten visitor management

Instantly share video analytics and access control alerts





SOLUTIONS

Appearance Search

Identity Search

Unusual Motion Detection

Focus of Attention

Self-Learning Video Analytics

HIGH-PRIORITY APPLICATIONS

Find who you're looking for, faster

Intelligently integrate ID badges with the power of video

Reveal atypical events which may need investigating

Highlight events that require action

Flag after-hours or prohibited loitering



COMMUNICATE



SOLUTIONS

MOTOTRBO Two-way Radios
WAVE Push-to-talk Communications
Communicator: Mass Notification
Ally Dispatch Management

HIGH-PRIORITY APPLICATIONS

Communicate clearly across campus

Push-to-talk without device, network or geographic boundaries

Notify and mobilize critical groups at moment's notice

Dispatch with public safety pedigree





SOLUTIONS

Ally Incident & Records Management

CommandCentral Aware

P25 Mission-Critical Communications

Critical Connect

Access Control for Emergency Response

HIGH-PRIORITY APPLICATIONS

Streamline incident management and records end-to-end

Give police eyes on scene in seconds

Respond rapidly because every second matters

Make interoperability easy

Enable immediate first response



EVERYDAY CHALLENGES

BULLYING	WEAPONS	ALCOHOL	FIGHTING	VICTIMIZATION
41% of students report being bullied, and fear it will happen again.	16% of students admit carrying a weapon in public areas.	30% of students grades 9-12 admit to using alcohol.	24% of students report having been in a physical fight.	827,000 victimizations (theft & non-fatal incidents) are reported at school by students.*

Schools should be safe havens for teaching and learning, free from crime and violence.



SAFE STUDENT RETURN

Use Case



DETECT

BULLDOGS O

ELEVATED SKIN TEMPERATURE DETECTION

At major entry ways of schools, thermal imaging cameras automatically monitors skin temperatures of students and staff entering the building



ANALYZE

FACE MASK COMPLIANCE ANALYSIS

Compliance reports are run on students in the hallways for wearing masks to evaluate effectiveness of their enforcement campaign



COMMUNICATE

NOTIFICATIONS COMMUNICATED

An elevated temperature is detected and the proper resources are alerted and coordinated



RESPOND

CONTACT TRACING THROUGH APPEARANCE SEARCH

A student has been identified an being COVID 19 positive. Using the image of the student, security operations can evaluate who the student has been in contact with over the past few days while at school to facilitate further testing of students





DETECT

- Avigilon Cameras
- Avigilon Control Center
- Elevated Skin Temp. Detection



ANALYZE

- Avigilon Cameras
- Face Mask Detection
- Avigilon Control Center



COMMUNICATE

- Dispatch
- Broadband Push To Talk
- Radio Communications
- Radio Alert



RESPOND

- Avigilon Cameras
- Appearance Search
- Avigilon Control Center

USE CASE **BULLYING**

BULLYING AT SCHOOLS

More than 70% of students and teachers have seen bullying in their schools.

When bystanders intervene, most bullying will stop within 10 seconds.

Only 25% of students who are bullied, will tell an adult.



BULLYING PREVENTION & RESPONSE

Use Case



DETECT

BULLDOGS

ANONYMOUS TIP SUBMITTED

Mobile friendly, multimedia tip sent in, notifying of a bullying situation.



ANALYZE

TIP MANAGER INTERFACE RECEIVES TIP

School Resource Officer received and managed the tip via a simple web-based portal.



COMMUNICATE

TIP COMMUNICATED

Tip information sent to School Resource Officer for follow-up.



RESPOND

INCIDENT RECORDED

School Resource Officer resolved the bullying and logged incident report.

BULLYING PREVENTION & RESPONSE

Use Case



DETECT

Tip Submit

BULLDOGS

• Tip Management Software



ANALYZE

- Unusual Motion Detection
- Avigilon Control Center



COMMUNICATE

- Dispatch
- Broadband Push To Talk
- Radio Communications



RESPOND

Ally Incident Management

PERIMETER ALERT

MAKING EVERY SECOND COUNT

First responders typically respond to a 9-1-1 call within 8 minutes, arriving with minimal information.

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

Technologies that help to detect, analyze, communicate and respond can prevent incidents from becoming tragedies.







DETECT

LICENSE PLATE RECOGNIZED

Suspended student license plate detected entering school grounds.



ANALYZE

APPEARANCE DETECTED

Face analytics-based search detected exiting vehicle and approach school entrance.



COMMUNICATE

NOTIFICATION COMMUNICATED

Alert dispatched to staff across radios and smartphones to lock-down school.



RESPOND

FIRST RESPONSE DISPATCHED

Local police directly informed with video for immediate first response.





DETECT

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



COMMUNICATE

- Dispatch
- Broadband Push To Talk
- Radio Communications



ANALYZE

- Watchlist
- Avigilon Cameras
- Avigilon Control Center
- Radio Alert



RESPOND

- Ally Incident Management
- Critical Connect

GUN VIOLENCE AT SCHOOLS

More than 226,000 students have experienced gun violence at school since Columbine, 1999.

2018 is the worst year on record. 24 shootings, 114 killed or injured.



USE CASE

DETECT

77%

Of shooters spend more than a week planning and preparing.

HIGH RESOLUTION
CAMERAS CAPTURE
ACTIVITY & CORRELATE
WITH WATCH LIST
DATABASES

ANALYZE

4 to 5

Concerning and observable behaviors are displayed on average.

ANALYTICS IDENTIFY
ISOLATED STUDENTS TO
HELP PROACTIVELY
ADDRESS MENTAL
HEALTH ISSUES

COMMUNICATE

3 MIN

Most victims are shot within the first three minutes.

MISSION-CRITICAL
COMMUNICATIONS
ENSURE SITUATIONAL
AWARENESS OF WHERE
THE SHOOTER IS

RESPOND

8 MIN

First responders arrive within eight minutes with minimal information.

LIVE VIDEO
STREAMING INTO
LOCAL POLICE GIVES
INSTANT EYES ON
SCENE



Use Case



DETECT

BULLDOGS

ACCESS CONTROL BREACH RECOGNIZED

Alert sent to security about locked door breach.



ANALYZE

APPEARANCE IN HALL DETECTED

Emergency communication sent to lock-down school and alert school personnel.



COMMUNICATE

NOTIFICATION COMMUNICATED

Emergency communication sent to lock-down school and alert school personnel.



RESPOND

RESOURCES DISPATCHED

Police directly engaged for immediate first response.

Use Case



DETECT

BULLDOGS

- Avigilon Cameras
- Access Control Manager
- Radio Alert



ANALYZE

- Appearance Search
- Avigilon Cameras
- Avigilon Control Center



COMMUNICATE

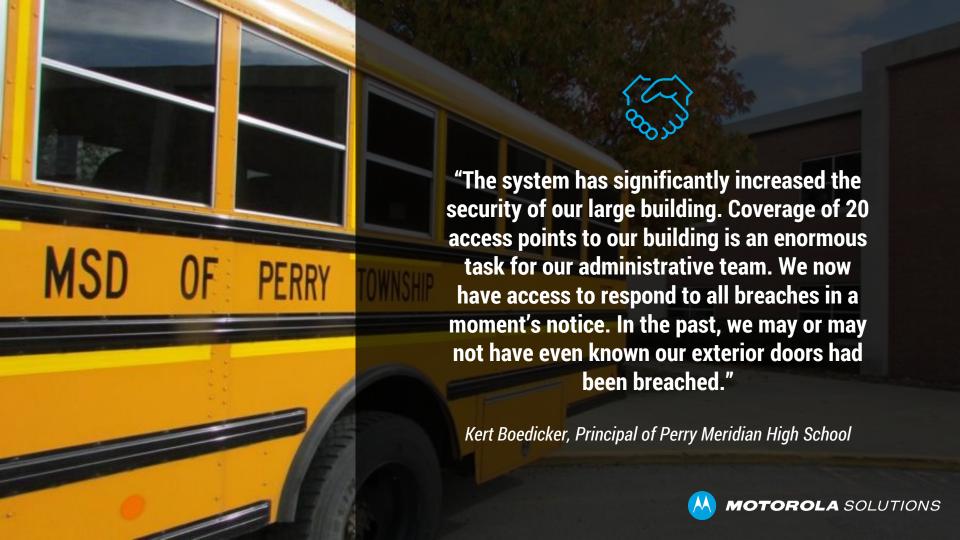
- Dispatch
- Broadband Push To Talk
- Radio Communications

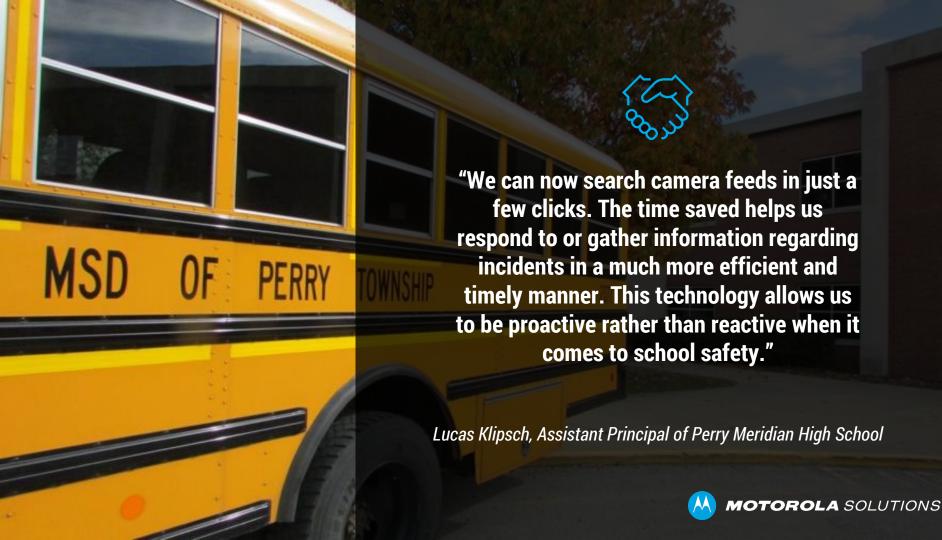


RESPOND

- CommandCentral Aware
- Critical Connect









GRANT ASSISTANCE PROGRAM

Motorola Solutions partners with EDUCATIONGRANTSHELP.COM to help you apply for support to make your school safer.

Because the only thing your students should worry about is their next exam.

CUSTOMER GRANT SERVICES PROVIDED

- Dedicated regional grant account manager
- Free grant research
- Free automatic weekly grant alerts
- Free grant consulting from senior grant education experts
- Free grant application and narrative help
- 50% discount complete grant writing services (if requested/needed)



WHAT IT MEANS TO BE A SAFER SCHOOL

THRIVE IN A SAFETY-FOCUSED ENVIRONMENT

- **POCUS** ON EDUCATING THE NEXT GENERATION
- **3** ATTRACT FAMILIES & CREATE A COMMUNITY
- **RECRUIT** & RETAIN THE BEST TEACHERS & FACULTY









SERVICES FOR THE ENTIRE ECOSYSTEM

PEAK PERFORMANCE FOR YOUR RADIOS, CAMERAS, ACCESS CONTROL AND SOFTWARE



TECHNICAL SUPPORT

Dedicated experts leverage knowledge base and diagnostics to effectively troubleshoot and promptly resolve technical issues.



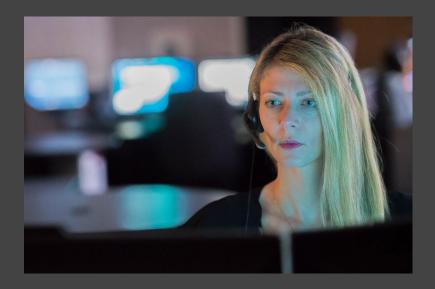
REPAIR/REPLACEMENT

Diagnostics equipment, repair tools and replacement parts ensure system components are protected from normal wear and tear.



SOFTWARE UPDATES

Certified and pre-tested software updates ensure continuous security, extended performance and enhanced functionality of your system.









SOLUTIONS

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Watch List Alerting

Access Control

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HIGH-PRIORITY APPLICATIONS

Empower students to help protect their community

Deter antisocial behavior and create high visibility across campus

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Protect ingress / egress points and tighten visitor management

Instantly share video analytics and access control alerts





TIPSUBMIT

EMPOWER STUDENTS TO HELP PROTECT THEIR COMMUNITY



SUBMIT A TIP FROM ANY DEVICE

Enable students to "say something" at any time from their laptop or smartphone via a web-based form.



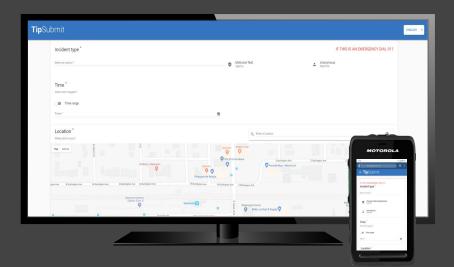
CAPTURE CRITICAL CONTEXT

Gather information-rich multimedia with up to five 100Mb attachments per tip.



GUARANTEE CONFIDENTIALITY

Alleviate fear of retribution and maintain personal safety with completely anonymous tip submissions.



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VIDEO SECURITY

DETER ANTISOCIAL BEHAVIOR & ENHANCE VISIBILITY ACROSS CAMPUS



USE THE RIGHT CAMERA FOR THE RIGHT ENVIRONMENT

Create a safe and secure environment with cameras for every location - fisheye for classrooms, multisensor for hallways, high definition for parking lots.



VERIFY VISITOR IDENTITY AND AUTHORIZE ACCESS

Quickly and easily identify a visitor before remotely granting access with a video intercom system that allows clear viewing and two-way communication.



SEE MORE IN THE DARK

Capture critical details in low light environments with IR and LightCatcher™ technologies to see clearly in any situation.







LICENSE PLATE RECOGNITION

MONITOR AND IDENTIFY AUTHORIZED & UNAUTHORIZED VEHICLES



START CAMPUS PROTECTION OFF-CAMPUS

Monitor all roads approaching and surrounding your campus to detect vehicles of interest that may pose a threat.



CREATE APPROVED WATCH LISTS

Create and import several license plate watch lists and instantly receive security alerts, helping you take decisive action when needed.



FIND VEHICLES FASTER

LPR analytics automatically reads license plate information from vehicles and links it to live and recorded video, enabling operators to quickly search and find captured license plate video for verification and investigation purposes.







WATCHLIST ALERTING

ACCELERATE RESPONSE TIMES BY IDENTIFYING PEOPLE OF INTEREST IN REAL-TIME



WATCHLIST CREATION

Identify people of interest based on a secure, controlled watch list created and maintained by authorized users at the school.



APPEARANCE ALERTS

Avigilon cameras licensed for facial recognition seek to identify potential matches based on the reference images in the watchlist. Potential matches alert Operators within the ACC software.



FOCUS OF ATTENTION NOTIFICATIONS

Appearance alerts manifest through the Focus of Attention interface, giving Operators important minutes to quickly determine if further action is necessary.





ACCESS CONTROL MANAGER

PROTECT INGRESS/EGRESS POINTS & TIGHTEN VISITOR MANAGEMENT



PROTECT PEOPLE, PROPERTY & ASSETS

Manage staff, student and visitor access to buildings or restricted areas on a school ground using a role-based system.



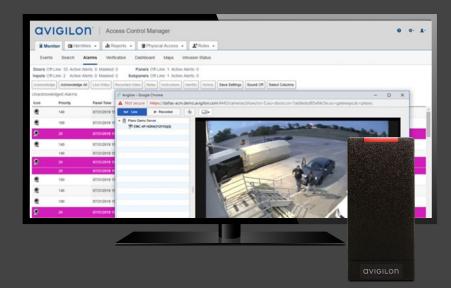
MANAGE SECURITY IN ONE PLACE

Instantly detect someone at an access control point and verify the situation with camera views on a unified, easy-to-use system.



STAY INFORMED WITH THE INFORMATION YOU NEED

Create custom email notifications to track irregular activities, ensuring you can react to situations as quickly as possible.



RADIO ALERT

INSTANTLY RECEIVE VIDEO ANALYTIC AND ACCESS CONTROL ALERTS



CONNECT WITH CRITICAL SENSORS

Trigger critical alerts directly to your radio – including license plate recognition, door breaches, loitering or presence detection.



ALERT UNUSUAL EVENTS PROACTIVELY

Automatically dispatch alert information directly to your MOTOTRBO radios via text message and/or text-to-voice alerts.



REINVEST SAVINGS IN BROADER SAFETY SECURITY

Eliminate or reduce requirements for large-scale video walls with intelligent sensor-based alerts monitoring activity and focusing response.



Suspended student vehicle in parking lot.

Tal | 1+1 *

Suspended student vehicle in parking lot.

Contact Zone

9wxyz





SOLUTIONS

Appearance Search

Identity Search

Unusual Motion Detection

Focus of Attention

Self-Learning Video Analytics

HIGH-PRIORITY APPLICATIONS

Find who you're looking for, faster

Intelligently integrate ID badges with the power of video

Reveal atypical events which may need investigating

Highlight events that require action

Flag after-hours or prohibited loitering





APPEARANCE SEARCH

FIND WHO YOU'RE LOOKING FOR FASTER



SEARCH USING PHYSICAL DESCRIPTIONS

Quickly initiate a search for a person by specific physical descriptions such as clothing color, gender or age.



SEARCH USING FACE ANALYTICS

Incorporate the characteristics of a person's face to search for the same person throughout hours of footage, even if external articles change.



BUILD A STORY

Use playback, bookmark and export tools to compile a robust video narrative of events and improve incident response times.





IDENTITY SEARCH

INTELLIGENTLY INTEGRATE ID BADGES WITH THE POWER OF VIDEO



MAP PERSONNEL MOVEMENT ON-SITE

Quickly search for a person using his or her access control credentials and map their movement throughout a premises via his or her scanned door badge activity.



VISUALLY RETRACE A PERSON'S MOVEMENT

Correlate scanned door badge activity with linked video feeds to run an appearance search and find a person's last known location in a premises.



EASILY NAVIGATE VIDEO AND ACCESS CONTROL EVENTS

Monitor and manage access control events and related video within the same dashboard for a streamlined workflow.



Thu, Aug 1, 2018 2:25:47 PM







UNUSUAL MOTION DETECTION

REVEAL ATYPICAL EVENTS WHICH MAY NEED INVESTIGATING



TURN UNKNOWNS INTO INSIGHTS

Leverage AI to learn typical campus activities in a scene to automatically detect and flag unusual motion that may otherwise be missed.



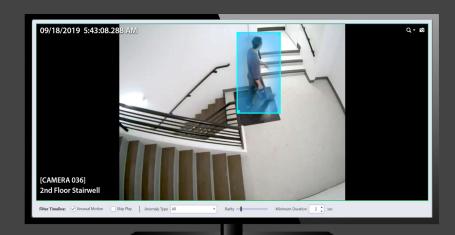
MONITOR UNUSUAL EVENTS EFFICIENTLY

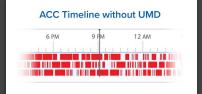
Select an anomaly type - location, direction, speed, absence or all - to filter through hours of videos in minutes and detect unusual motion.

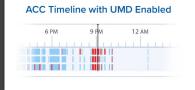


QUICKLY DEPLOY ADVANCED VIDEO ANALYTICS

Easily identify unusual motion with analytics that continuously learn a scene's "usual motion", without the need to set up predefined rules.









FOCUS OF ATTENTION

HIGHLIGHT EVENTS THAT REQUIRE ACTION



MONITOR LIVE VIDEO INTELLIGENTLY

Intelligently monitor live video to illuminate potentially critical video activities with color-coded hexagons to easily see where action is required.



FOCUS YOUR ATTENTION ON WHAT'S IMPORTANT

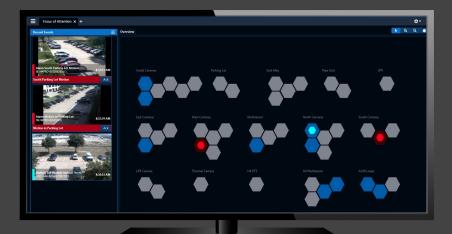
Leverage AI to find anomalies in video and accelerate the process of identifying the information you should review.



GIVE BACK TIME TO YOUR SECURITY STAFF

Give back time to security staff with analytics that extend personnel efficiency by bringing focus to detection, so they can focus on taking action.









SELF-LEARNING VIDEO ANALYTICS

FLAG AFTER-HOURS OR PROHIBITED LOITERING



DETECT PROHIBITED LOITERING

Detect a person or vehicle in a specified area for an extended period of time to enable immediate response.



REDUCE VANDALISM AND THEFT

Define analytics rules to receive real-time notifications when a person or vehicle enters a perimeter after-hours.



ENABLE 24/7 SECURITY

Leverage the power of analytics to monitor school properties and have the peace of mind your school is covered 24/7.





COMMUNICATE



SOLUTIONS

MOTOTRBO Two-way Radios
WAVE Push-to-talk Communications
Communicator: Mass Notification
Ally Dispatch Management

HIGH-PRIORITY APPLICATIONS

Communicate clearly across campus

Push-to-talk without device, network or geographic boundaries

Notify and mobilize critical groups at moment's notice

Dispatch with public safety pedigree

M

MOTOTRBO COMMUNICATIONS

COMMUNICATE CLEARLY ACROSS CAMPUS



COMMUNICATE LOUD AND CLEAR

Connect your team with rugged two-way radios that deliver superior voice clarity, outstanding range and long battery life so they can hear and be heard, loud and clear.



KEEP YOUR SCHOOL CONNECTED

Assure seamless communication between school staff and with other schools in your district when daily incidents, such as bus reroutes, or emergencies arise.



CREATE CONFIDENCE IN YOUR COMMUNITY

Assure staff, parents and community members that your school has direct communications everyday to create a safer, secure environment for students and staff.







WAVE PUSH-TO-TALK COMMUNICATIONS

PUSH-TO-TALK WITHOUT DEVICE, NETWORK OR GEOGRAPHIC BOUNDARIES



COMMUNICATE INSTANTLY

Extend your radio system's reach to those who don't carry radios, connecting to smartphones, tablets, laptops and even land-lines.



ENHANCE SITUATIONAL AWARENESS

Get the speed and simplicity of professional radio PTT communication with the ability to share details via text, photo, video or file attachment.



MAP LOCATIONS

See presence and location of other WAVE users in real-time to better plan your response.





COMMUNICATOR: MASS NOTIFICATION

NOTIFY AND MOBILIZE CRITICAL GROUPS AT A MOMENT'S NOTICE



SHARE CRITICAL INFORMATION EASILY

Notify your teams instantly of inclement weather delays, violence and drills, by text, email or voice message, from laptops or smartphones.



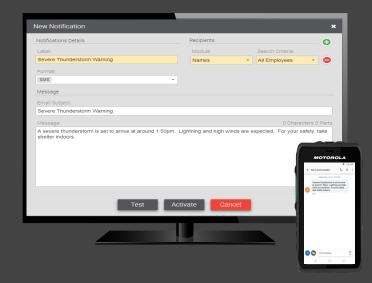
PROTECT PEOPLE AND ASSETS

Automate emergency and routine communications, and quickly provide situational facts or instructions to protect people and assets.



PROTECT YOUR COMMUNICATIONS

Deliver the peace of mind your information and operations are secure with advanced encryption and a multi-tiered architecture.









ALLY DISPATCH MANAGEMENT

DISPATCH WITH PUBLIC SAFETY PEDIGREE



DISPATCH RESOURCES

Simplify and standardize your dispatch process and workflow with a dashboard view of assigned or pending calls, and available units.



COMMUNICATE INSTANTLY ACROSS DEVICES

Keep your team in touch across different devices, networks and locations, sending private or group calls to all users across all devices.



TRACK STAFF LOCATION

Know your security staff's locations when using WAVE enabled two-way radios and smartphones.







SOLUTIONS

Ally Incident & Records Management

CommandCentral Aware

P25 Mission-Critical Communications

Critical Connect

Access Control for Emergency Response

HIGH-PRIORITY APPLICATIONS

Streamline incident management and records end-to-end

Give police eyes on scene in seconds

Respond rapidly because every second matters

Make interoperability easy

Enable immediate first response





ALLY INCIDENT & RECORDS MANAGEMENT

STREAMLINE INCIDENT MANAGEMENT AND RECORDS END-TO-END



MANAGE INCIDENT RECORDS

Enhance incident and records management with multimedia attachments, accessible from web-enabled devices and easily shared with personnel.



CUSTOMIZE YOUR RECORDS

Customize fields, drop down menus, reports and logos to match your school's needs to consistently collect the right data.



MAKE PROACTIVE PLANNING DECISIONS

Enhance decision-making through analytics and reports for fast trend analysis, proactive security planning and reduced liability.







COMMANDCENTRAL AWARE

GIVE POLICE EYES ON SCENE IN SECONDS



CONNECT WITH LOCAL LAW ENFORCEMENT

Create a direct connection between your school and local police so they're familiar with your campus, technologies and security practices.



GIVE VISIBILITY THROUGH REAL-TIME VIDEO

Enable access to your school's video feeds so local police can see what's happening in real-time.



INFORM RESPONSE TO ESCALATING INCIDENTS

Inform first responders with rich video information to plan action even before they arrive on scene to an escalating incident.



P25 MISSION-CRITICAL COMMUNICATIONS

RESPOND RAPIDLY BECAUSE EVERY SECOND MATTERS



ENSURE INTEROPERABILITY WHEN YOU NEED IT THE MOST

Interconnect your School Resource Officer with local law enforcement seamlessly, because coordination without communication is chaos.



KEEP YOUR SCHOOL CONNECTED

Assure seamless communication with local law enforcement with mission-critical two-way radios designed to withstand extreme weather and other major events.



CREATE CONFIDENCE IN YOUR COMMUNITY

Assure staff, parents and community members that your school has direct communication with local law enforcement to get help when it matters most.







CRITICAL CONNECT

MAKE INTEROPERABILITY EASY



COMMUNICATE WITH LOCAL LAW ENFORCEMENT

Enable secure and reliable communication between first responders on P25 radios and school personnel on MOTOTRBO radios or smartphones.



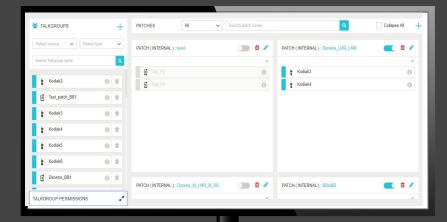
IMPROVE COORDINATION IN MAJOR INCIDENTS

Dynamically create talkgroup teams to communicate with each other in real-time and enhance situational awareness.



CONNECT BEYOND YOUR TWO-WAY RADIO NETWORK

Connect two-way radios and smartphones with one link, providing dynamic, seamless communication whenever and wherever it is needed.







ACCESS CONTROL FOR EMERGENCY RESPONSE

ENABLE IMMEDIATE FIRST RESPONSE



LOCK-DOWN IMMEDIATELY

Create rule-based actions and notifications to remotely lock-down doors when you need an immediate on-campus response.



MANAGE INGRESS AND EGRESS ANYTIME, ANYWHERE

Manage all ingress and egress points, with full access from any workstation, including mobile devices.



TRACK STAFF AND STUDENT LOCATION

Keep track of swipe-card usage to monitor people movement in and out of designated emergency areas and get real-time location information.

