



# **PROTECTING THE FUTURE: BUILDING A SAFER SCHOOL ENVIRONMENT**

**UNIFIED COMMUNICATION SOLUTIONS ENHANCE  
SCHOOL SAFETY AND BOOST EFFICIENCY**



**MOTOROLA SOLUTIONS**

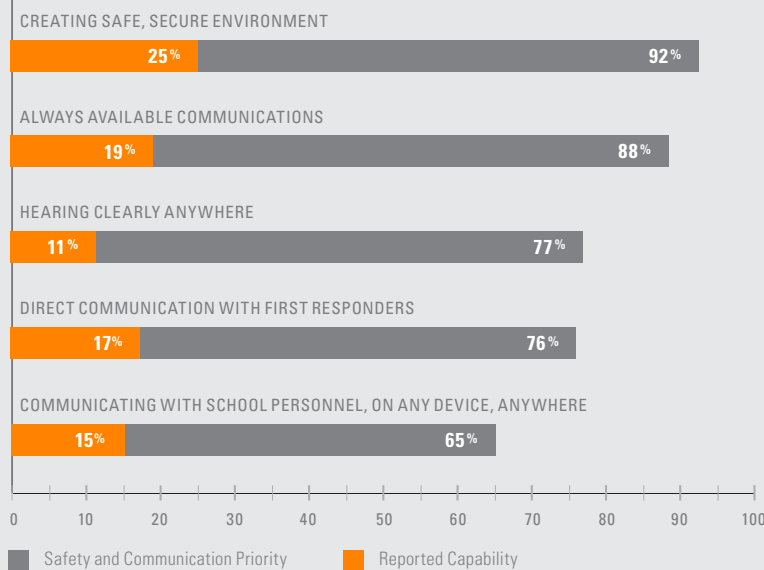
# NEW AND EVOLVING THREATS LEAD TO A GREATER FOCUS ON SCHOOL SAFETY

In K-12 institutions across the country, educators, school officials, and parents are searching for comprehensive solutions to preserve student and staff safety. Tragic events such as school shootings – while still far too frequent – are relatively rare. However, K-12 schools also face everyday emergencies that require instant, coordinated responses from multiple teams – possibly including local public safety officers – to provide an effective resolution.

For those districts fortunate enough to receive increased funding for school safety improvements, choosing among the wide variety of different solutions available is a challenge. For districts without additional funding – but with increased scrutiny from parents and the community – applying their budget for maximum safety benefit is even more critical.



## THE DISCONNECT: SCHOOL PRIORITIES VS SCHOOL CAPABILITIES



**SOURCES:**  
 1. *The Role of Technology in Improving K-12 School Safety (2016)* The Rand Corporation, the Police Executive Research Forum, RTI International, and the University of Denver  
 2. *MSI 2017 US EDUCATION SURVEY*

Regardless of school size or location, research shows that the top priority to support student and educator safety is robust, reliable communications between educators and first responders. <sup>1</sup>The educators themselves agree – in a recent survey, overwhelming numbers agreed on the importance of creating a safe learning environment, having always available communications, and so on. (See sidebar.) Unfortunately, those same educators indicate that their actual communication capabilities fall short, putting our students and teachers at risk, and minimizing the efficiency of emergency response.





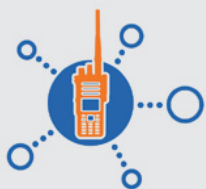
## TEAM COMMUNICATIONS INCREASE SCHOOL SAFETY AND IMPROVE EFFICIENCY



In an emergency situation, everyone on the school staff becomes an immediate responder. Help can come from any direction – a teacher on the playground with a mobile phone, a coach on the practice field with a tablet, a school resource officer with a radio, or a video system administrator on a laptop.

Enabling all of these team members to communicate instantly, regardless of device or network or physical location, is the key to streamlining emergency response and ensuring that critical information – from purpose-built applications, video, or alarms and alerts – gets to those who need to know.

## UNIFIED TEAM COMMUNICATIONS WILL HELP YOU ...



### COMMUNICATE INSTANTLY ...

Equip your critical communications team with radios, purpose-built for push-to-talk communications on private networks you can rely on in an emergency. When bad things happen, nothing is faster than push-to-talk.



### WITHOUT BOUNDARIES ...

On-site or off-site, superintendents, administrators, and educators can communicate with radio users on any device, on any network, with the WAVE Push-to-talk application.



### WITH ADDED INTELLIGENCE ...

A wide-variety of apps – from indoor and outdoor location tracking to fleet management to alarms and alerts to work order ticketing to incident management to video surveillance – maximize the safety and efficiency of your school operations.



### WITH CONFIDENCE ...

Your operations and IT teams are already overworked and understaffed. With Managed and Support Services from Motorola Solutions, the time and effort to manage your radio system infrastructure and devices can be offloaded.

## COORDINATE AND COLLABORATE INSTANTLY WITH MOTOTRBO™ TWO-WAY RADIOS

MOTOTRBO TWO-WAY radios unify your staff and fleet with instant, always available communications, anywhere they go. When emergencies arise – from an injured student to an intruder on campus – our TWO-WAY radios connect staff directly and instantly to public safety agencies.

Choose the right device for the right user, such as the ultra-thin SL 7000e series portable radios or the XPR 5000e series mobiles with integrated Bluetooth® 4.0 and integrated WiFi® capabilities. Wireless accessories let personnel interact freely, so bus drivers can keep their hands on the wheel and eyes on the road. MOTOTRBO integrates voice and data seamlessly, with enhanced features that are easy to use – including integrated Bluetooth, GPS location tracking, text messaging and Intelligent Audio that automatically adjusts volume to the environment. Whether a custodian is in a boiler room or a coach is in a crowded gym, you can be sure they will hear and be heard clearly.



**“ When schools are making a sizeable investment, a marginal improvement may not justify the expense. The greatly extended coverage and significantly improved voice quality of the MOTOTRBO radios have undeniably proven that they were worth the investment.”**

Assistant Superintendent,  
Dallas County School District, Texas



### COMMUNICATION WITH CONFIDENCE

When dealing with a school emergency, the last thing on your mind should be the functionality and performance of your communications. Managed & Support Services provide a convenient and reliable approach to supporting and managing your communications with a predictable operating cost model and performance guarantees.

Our services are based on best practices for provisioning, programming, support, maintenance and repair to ensure your system is operating at peak efficiency when it matters most. Rely on Motorola Solutions to lower your total cost of ownership and manage the complexity of your communications so you can focus on what matters most – a productive learning environment.



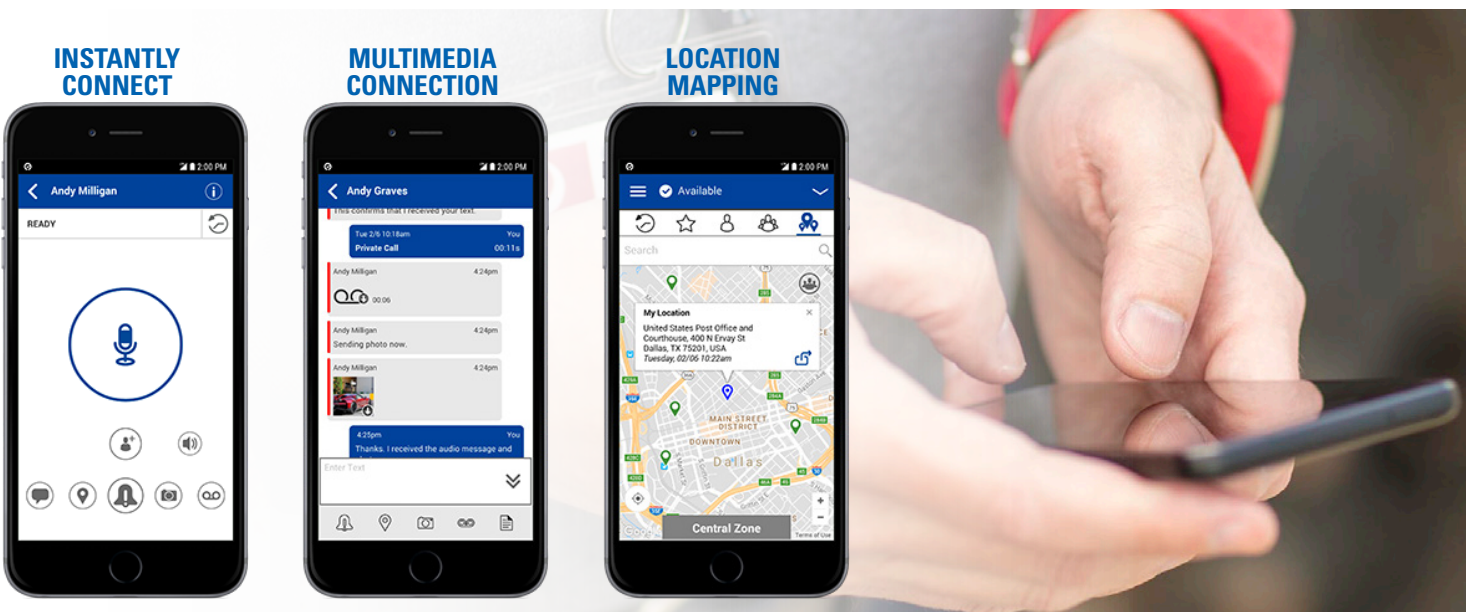


## CONNECT TO STAFF, ON ANY DEVICE, ANYWHERE WITH THE **WAVE™** PUSH-TO-TALK APPLICATION



Leverage the resources you already have to communicate with employees on their own devices. Available in on-premise or cloud-based versions, WAVE extends your radio system's reach to those who may not carry radios. Now the principal at a convention or the administrator away from campus can use their smartphones as push-to-talk devices to communicate seamlessly with radio users at school.

WAVE connects to virtually any device – smart phones, laptops, tablets, and even landlines – on any public or private mobile data network, including Wi-Fi. You get seamless and secure connectivity, affordable push-to-talk, and the freedom to keep existing service plans and devices.



## MANAGE AND MONITOR BUSES WHEREVER THEY GO WITH **GPS FLEET TRACKING**

Need to contact a student on the bus, redirect a vehicle or make sure your fleet is adhering to its route? The integrated GPS on Motorola Solutions mobile radios helps you monitor bus locations and manage logistics. Now schools can track each vehicle to improve security, increase student safety and effectively respond to emergencies, weather events, traffic and more.

With the emergency call button, drivers can alert dispatch when they need assistance. Remote monitoring lets you listen in when a driver is unable to respond. Apps can track bus inspections, monitor fuel usage, manage maintenance, and inform you if bus doors are left open or drivers are on duty. We designed our fleet management solutions to keep your drivers connected – efficiently and safely – wherever they go.



## BOOST YOUR TEAM'S EFFICIENCY

Choose from the largest catalog of multi-platform applications (operable on both TWO-WAY radios and mobile devices) in the market to enhance your school operations.

- **Indoor/Outdoor Location Tracking:** A variety of applications allow you to track personnel to maximize efficiency and alert the nearest resources if assistance is needed.
- **Alarms and Alerts:** Monitor entries and exits, alert key personnel to facility or equipment issues, and escalate issues through the chain of command to ensure speedy resolution.
- **Work Order Ticketing:** Eliminate team confusion on what needs to be done and who is doing it by implementing an application to track open tasks, who is assigned to complete them, and status of the job.





## CONTROL ACCESS AND MANAGE VISITORS WITH VIDEO SURVEILLANCE



Understanding and managing who is accessing your facility is a critical aspect of ensuring student safety. Comprehensive video solutions from Avigilon, a Motorola Solutions company, can help your security team protect the safety of students and staff from the first bell of the day to the last student on the bus.

With a complete line of high-definition video cameras coupled with self-learning video analytics, school security officers will be able to find and track suspicious activity in all types of lighting conditions. The Avigilon Control Center video management system includes a cutting-edge AI search engine to identify and track individuals based on hair and clothing color, gender, and age. To ensure that only approved guests enter, the new H4 Video intercom – designed specifically for schools – helps administrators visually identify visitors before remotely granting access.



## MITIGATION AND MANAGEMENT SOLUTIONS FOR EVERY PHASE OF AN INCIDENT



### STOP A PROBLEM BEFORE IT STARTS

Whether a student brings a weapon to school or there is a suspicious character lurking in the faculty parking lot, alert local law enforcement by sending a tip anonymously with TipSubmit.

#### TipSubmit features:

- TWO-WAY Dialogue
- Quick Search
- Full Multimedia Support
- Standardized Data Collection
- Easy Web-Based Form
- Enhanced Notifications
- Simplified Sharing

### TRACK AND ANALYZE INCIDENTS

Recognizing trends in behavior for the overall student population as well as individuals with a history of incidents helps school resource officers prepare and react when needed. Ally Incident Management software provides a comprehensive incident management system to support everything from incident dispatch to reporting in a simple and intuitive format. Create incidents on the fly, add still photos, video, and audio files, and create standardized reports.

The Ally solution also supports integration with WAVE Push-to-talk, enabling SROs to communicate with their teams and other school personnel directly from the application.

### KEEP YOUR COMMUNITY INFORMED

Bad weather. A traffic accident. A power failure. Seemingly minor disruptions in the day can have major consequences for your staff, students, and administration without an effective method of communicating with parents.

The VESTA® Communicator solution can help bridge this communication gap, allowing school administration to quickly and easily notify the community of any issues that arise, and the next steps to respond for maximum safety and minimum interference with the learning process.

## COMMUNICATE DIRECTLY WITH FIRST RESPONDERS WITH THE SCHOOLSAFE™ NETWORK

The SchoolSAFE Network provides a direct line of communication between MOTOTRBO radios and public safety agencies' Project 25 (P25) radios. 9-1-1 dispatchers control and monitor the flow of information by bridging the radio systems when a call comes in from a school.

Once the SchoolSAFE public safety bridge is activated, school personnel use their MOTOTRBO radios to talk directly with 9-1-1 dispatchers and first responders heading to the scene. Instead of information passing through multiple parties or being incomplete, everyone is on the same channel and can exchange information as an incident unfolds.

Sustainable co-training between the first responders and the schools with real-life scenarios is integral to the SchoolSAFE program. This helps school personnel learn how to act as incident command, operating their radios confidently and communicating only critical information to effectively interoperate with public safety.



**“ Motorola radios with the SchoolSAFE Network improves our security and our ability to respond quickly to situations. Now we can communicate faster, effectively and directly to schools, buses and public safety. We know it will keep students and staff safer.”**

Superintendent,  
Chardon Local Schools, Ohio



### CONNECT INSTANTLY TO PUBLIC SAFETY WITHOUT TALKING WITH THE APX™ 02 CONTROL HEAD

The APX Control Head can compliment any SchoolSAFE network or as a standalone device for an added level of safety. It is a mission critical, P25 mobile radio with a large orange emergency button designed specifically for school safety.

With a touch of the button, school officials can instantly send an emergency alert to public safety without having to hold down the button to talk. Once the emergency alert is activated, a hot microphone lets the public safety dispatcher hear background sounds and provide updates to first responders heading to the scene.



# TEAM COMMUNICATIONS IN ACTION:

## SUPERINTENDENT

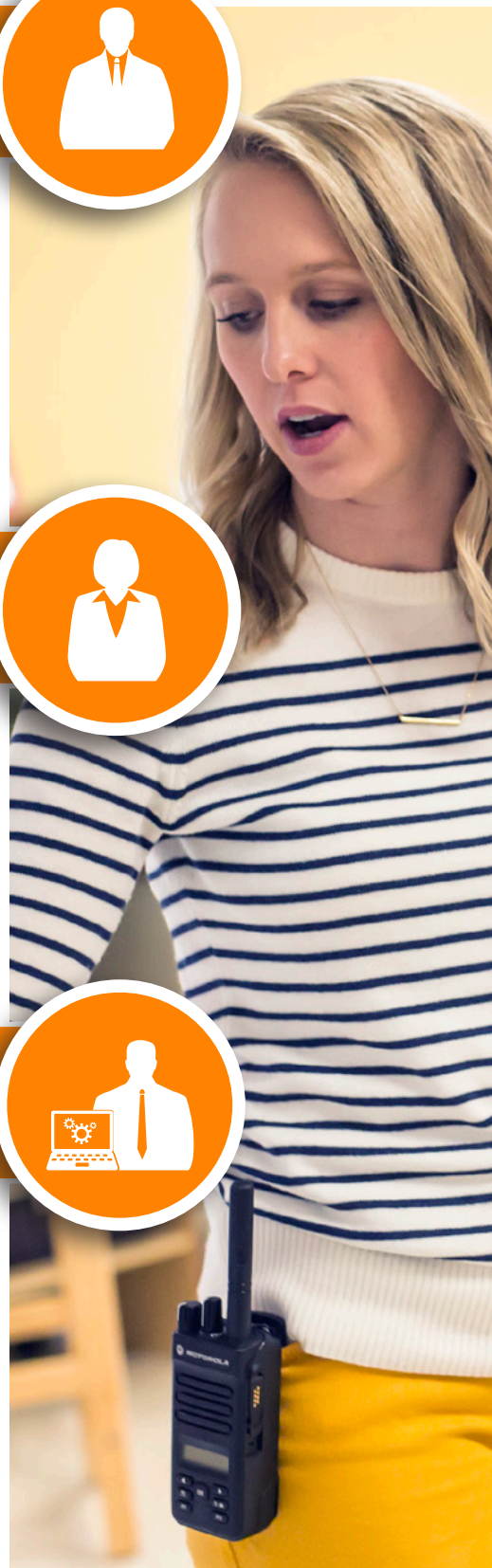
Focused on the safety of students and staff throughout the entire district, the Superintendent uses the WAVE app on her smartphone to communicate as needed with all of the schools in the district. She also has access to the video management and incident management systems, to review video of issues and run reports to communicate improvements in school safety incidents to concerned parents.

## PRINCIPAL

A member of his school's Emergency Response Team, the Principal carries a radio when he is on school grounds to ensure uninterrupted communications, even in emergency or noisy environments. After hours, the Principal can use the WAVE application on his smartphone or tablet to monitor issues and connect with key staff members if needed.

## IT MANAGER

Keeping the various communications systems in a large school up and running is a massive endeavor. The IT Manager was pleased that she could use WAVE to connect her existing technology users without a "rip and replace", and establishing a Managed Services contract has greatly simplified the management of the MOTOTRBO radio system for her already-overworked IT staff.



# TEAM COMMUNICATIONS IN ACTION:

## TRANSPORTATION MANAGER

Bus arrivals and departures are easily disrupted by weather, traffic, or emergency issues. Using a fleet management app, the Transportation Manager is able to keep his fleet on time by tracking bus locations and directing drivers. Even though the bus company is an outside agency using a different radio frequency, he is still in direct contact with key school personnel through the use of the WAVE application.



## TEACHERS

Depending on their preferences, the teaching staff is using a mix of radios and mobile devices with the WAVE application enabled. Whether teaching a class, monitoring the lunchroom, or coaching the tennis team, teachers can communicate with their colleagues and the school security team with a single press of a button, minimizing distractions when they are responding to an emergency.



## SCHOOL RESOURCE OFFICER

On many campuses, the School Resource Officer is the main communication point between the school communication network (radios and WAVE) and the more robust public safety P25 radio network. From tracking incident trends to monitoring video feeds to coordinating emergencies between first responders and school personnel, the SRO is the cornerstone of the school safety network.







## KEEP YOUR SCHOOL SAFER WITH TEAM COMMUNICATIONS

The primary concern of every educational institution is to enable students to learn, grow and thrive in a safe environment. At Motorola Solutions, our primary concern is to help our customers mobilize and connect in the moments that matter.

When an emergency arises, resolving it quickly, efficiently, and with minimal disruption allows educators to get back to their true business. Enabling your staff to communicate instantly, without boundaries, with added intelligence, and with confidence speeds that resolution.

Team Communications from Motorola Solutions helps your team minimize or even eliminate emergencies by transferring critical information from those that know, to those that need to know. This creates the safe and efficient learning environment that allows your teachers to also transfer critical information from those that know, to those that need to know.





To increase your school safety and efficiency, visit [www.MotorolaSolutions.com/Education](http://www.MotorolaSolutions.com/Education)

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when it matters most.

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