Motorola Solutions MOTOTRBO™ Buying Guide

Communications solutions fit for your operations

- Two-way radio solutions
- Accessories
- Systems
- Infrastructure
- Dispatch solutions
- Nationwide push-to-talk
- Video analytics & access control
- Body cameras

MOTOROLA SOLUTIONS

Channel Partner

03 About us
04 Overview
09 Portable & mobile radios
30 Accessories
34 Systems
38 Infrastructure
44 Applications
46 Consoles & system management
53 Ecosystem integrations
60 Video analytics & access control
63 Body cameras
69 WAVE PTX
78 Services
81 Case studies

What Is the Motorola Solutions Safety and Security Ecosystem?

At its simplest, the Ecosystem is a set of security components that includes access control systems, surveillance tools and technologies, cloud-based AI-powered software, and communications in one integrated platform that work together in more powerful ways.

RADIO RESOURCE INC.™

Ecosystem Solutions Partner
MOTOROLA SOLUTIONS

We can help you maximize performance, effectiveness, and efficiency.

Radio Resource was established in 1989 by Dale Wingrove, who while with Motorola worked with many top 100 companies solving complex communication problems and helping them become more efficient, cut waste and improve safety and security. His broad experience includes automobile manufacturing, aerospace, electronics, tire plants, chemical plants, education, health care, oil field, small business, and various other industries.

Lack of reliable communications can adversely impact the effectiveness of any operation. Dale and his staff know how to help you maximize performance, effectiveness, and efficiency.

In addition to design, installation, and maintenance of hundreds of customer-owned radio communications systems, Radio Resource is a nationwide leader in providing short-term communication equipment for special events, plant or refinery turn-around, conventions, festivals, and sporting events.
Radio Resource has been the provider for the NFL's Super Bowl since 1991. Other events include the PAC-12 Football Championship, the Stanley Cup, Bolder Boulder, NFL Draft,
Cherry Creek Arts Festival, and myriad others.

Located in
Wheat Ridge, CO

MOTOTRBO™

A complete end-to-end solution

MOTOTRBO

A complete end-to-end solution

Radios
From simple voice-only models to feature-rich voice and data radios

Accessories
A complete portfolio of accessories optimizes the performance of your MOTOTRBO radio

Systems
MOTOTRBO offers a wide range of systems that can evolve with your business

Infrastructure
Repeaters, controllers and gateways are the backbone of your MOTOTRBO two-way radio system

Applications
Leverage data applications from our application developer program to enhance your communications

Consoles & Management
Centralize management of your radio network and workforce for effective, efficient communications

Services
We've got you covered, from pre-installation to post-implementation, with expert support

Discover the ultimate in seamless operations with a total MOTOTRBO solution

MOTOTRBO®

A complete end-to-end solution

The demands of today's workforce and the nature of business communications have made it increasingly complicated to equip your teams with devices adequate for the challenges of their environment, while delivering long-term value. Communications now span across several types of networks and devices for voice and data, but the main focus is still keeping your teams and customers safe, while making your operations more efficient and connected.

In order to achieve these goals, your teams are monitoring video, access control and more. Those technologies should not be siloed — you are stronger, more proactive and responsive when everything under your technology stack is connected and works together. So where do you start when evaluating different communication options? It's a lot to consider, but it starts with the devices that your teams use daily and rely on as their lifeline.

Capabilities

Data

Data communications are now at the forefront of day-to-day business operations. Much of what was previously radio traffic is now consumed as data, on a number of different applications, programs and devices. As a result, many teams are carrying multiple devices. The challenge is that many of the data devices available — and the networks they operate on — are not built for business and may compromise on durability, security and control. Voice remains a critical communication need for businesses. There is no true substitute for one-to-many voice communication on rugged, purpose-built devices that operate on private custom-built networks — when it matters most. That's why Motorola Solutions now offers converged and collaborative communication devices.

Converged vs. Collaborative

Converged devices, like MOTOTRBO Ion, can offer the best of both worlds in data and voice. The Ion smart radio brings together renowned push-to-t alk (PTT) performance, an open app ecosystem on the Android platform and access to Motorola Solutions' unified technology ecosystem — from video security and analytics solutions to best-in-class network security, to powerful new software and technology services.

Collaborative devices, like R7, are designed to complement more data-intensive devices in your fleet, and also collaborate with other tools like video, sensors, etc.

Audio
Clear audio is among the most prominent radio features for both the end user and the buyer. The ability to hear and be heard the first time is crucial for staff productivity and the safety of your team and your customers. All MOTOTRBO radios have basic noise-canceling features, but more advanced features are available with higher-tier radios, with a Dual Microphone Noise Suppression available only on MOTOTRBO Ion and R7.

Integration
Motorola Solutions has developed the first and only technology ecosystem that unifies voice, video, data and analytics in a single platform, enabling individuals, businesses and communities to work together in more powerful ways. MSI calls it the Safety and Security Ecosystem.

Motorola Solutions' MOTOTRBO portfolio is built within this ecosystem so you can get more out of your communications investment. Keep your teams aware and streamline critical communications by receiving automatic notifications from your video security and access control systems, sensors and more — directly on your device, using Orchestrate. Control and consolidate instant voice communications from your desktop using innovative computer-aided dispatch solutions. And extend communications beyond your radio network with interoperability with flexible broadband push-to-talk solutions.

Durability
Business communications devices must be built ready to withstand harsh and unpredictable environments. Ingress/International Protection (IP ratings) are industry-standard durability ratings. The first number in the rating refers to protection against solid objects, and the second refers to protection against liquids. MOTOTRBO radios start at IP54 and top out at IP68.

Hazardous location certifications are sought after for environments where flammable or explosive gases, liquids, dust, or "flyings" may be encountered. Health and safety regulations often mandate that products used in these areas must be HazLoc-certified.

Connectivity

Direct Mode/Single-Site Conventional
Every MOTOTRBO radio is capable of direct radio-to-radio communication without repeaters or radio systems and used with single-site conventional systems. A conventional system is a step up from basic radio-to-radio communications, where radios communicate via a high-power repeater, giving better coverage and more centralized control. MSI's commercial radios are designed for direct mode or single-site conventional systems.

MOTOTRBO DMR Systems
MOTOTRBO systems offer several advantages over conventional systems and direct mode, such as more user capacity, customized coverage and increased control. Systems can be deployed for single- or multi-site, employing dynamic trunking to increase capacity, for up to 3,000 users per site, and up to 250 configurations. MOTOTRBO systems are the backhaul for not only voice but also data for a network of applications developed specifically by and for users. MSI's Entry-Level Professional radios are designed for use on our Capacity Plus Systems, and Professional Enhanced for Capacity Max systems.

LTE
PTT over LTE is available exclusively for MOTOTRBO radios in the Professional Enhanced tier and up, enabling nationwide PTT, a unique value-add thanks to our WAVE PTX service. Full Wi-Fi broadband data is available on the Premium tier, MOTOTRBO Ion, allows for carrier-network LTE and private LTE.

Bluetooth
Bluetooth connectivity allows MOTOTRBO devices to connect to audio and data applications. Bluetooth accessories are an attractive option to enhance the audio experience, such as remote speaker microphones and headsets. Bluetooth also provides a way for MOTOTRBO radios to connect to devices such as Honeywell Gas Sensors.

Wi-Fi
Wi-Fi connectivity can provide radio managers with the opportunity to remotely program radios faster than over DMR, without taking them out of the field. Wi-Fi connectivity is available for programming and for PTT over Wi-Fi via WAVE PTX, for the Professional Enhanced tier radios. PTT through WAVE PTX allows for dead spot mitigation for places where MOTOTRBO systems were not designed to reach. Full Wi-Fi data is available on the Premium tier with MOTOTRBO Ion.

Coverage

Customized coverage with MOTOTRBO
MOTOTRBO systems empower teams with custom voice coverage to keep you connected when it counts, anywhere you do business. MOTOTRBO systems combine superior signal strength with the flexibility to customize site coverage, a predictable cost structure built around your needs, the control to decide which features and which devices go on your network, capacity for as many devices as your team needs, and the capabilities to ensure that your team is only a button's push away.

Interoperability
While all DMR radios are designed to a standard that enables interoperability between different brands — both systems and devices — MOTOTRBO radios have the ability to work in conjunction with a number of different devices over broadband data networks thanks to WAVE PTX. MSI's WAVE PTX application gives the ability for smartphones, tablets and other devices to connect with MOTOTRBO over LTE and Wi-Fi.

Device handover
DMR, Wi-Fi and LTE all provide the option for voice interoperability through MOTOTRBO, but handover between these devices requires manual intervention from the end user. MOTOTRBO's Seamless Voice Handover maintains your voice communications by automatically switching to broadband when your radio signal fades. Authentication, status, talkgroups and encryption are all preserved, without interruptions or resets.

What's next? Bring MOTOTRBO to your facility
As an authorized Motorola Solutions channel partner, we are here to help. Get started by reaching out to a member of our team. Our communication and security integration experts will work with you to understand the unique needs of your business and help you uncover the best options to maximize your technology investment.

Watch now

Portable and mobile radios

Commercial tier radios

Commercial radios

Connect your entire operation with MOTOTRBO™ digital portable radios

MOTOTRBO™ will transform your workplace with remastered digital technology. Whether you're looking for an incredibly sleek, lightweight digital radio or a scalable portable that puts digital within reach, MOTOTRBO™ has a device to fit you. We have the most comprehensive portfolio of digital products and the industry's largest collection of data applications.

Commercial Tier

CP100d
Easy to use and practical, the CP100d offers analog voice communications, and MOTOTRBO digital when you're ready — for a straightforward path to digital migration.

R2
A next-level workhorse, the MOTOTRBO R2 portable marries durability and ergonomics in a portable, two-way radio with superior range and audio. With R2 your message travels far and wide – and clear.

SL300
Measuring under an inch thick, the SL300 is ultra-portable with a stubby antenna, curved edges and rugged frame. Designed for easy and intuitive use and outfitted with the latest technology, the SL300 is the perfect work partner.

CM SERIES
The MOTOTRBO CM Series mobile radio is a reliable, cost-efficient solution to keep your team in contact so they can communicate, coordinate and collaborate for maximum efficiency and safety.

Motorola Solutions MOTOTRBO™ CP100d portable two-way radio

When choosing cost-effective two-way portable radios, you do not have to compromise features. The MOTOTRBO™ CP100d Series from Motorola Solutions is a range of practical, entry-level digital radios for professionals wanting to communicate with greater ease and efficiency.

The affordable CP100d radios offer all the benefits of digital technology – up to 35% longer talk-time, twice the voice capacity in a 12.5 kHz licensed channel, wider radio coverage, and superior audio. In digital mode, your MOTOTRBO radio provides clearer voice communications throughout the coverage area than analog radios, rejecting static and background noise.

Choose the RDX Series radio that fits your needs. The CP100d Series includes a non-display version with no keypad and 16 channels, and monochrome display versions with both full and limited keypads and 160 channels.

Non-keypad	16 channels
Limited keypad	160 channels, monochrome display
Full keypad	160 channels, monochrome display

Easy to use, easy to migrate to digital
The CP100d Series is easy to use and makes it easy to migrate from analog to digital. Your radio users can operate and communicate on their new digital radios on the job, as your business transitions to digital technology. You can also choose the analog-only version of the CP100d radio and unlock the capabilities of digital when the time is right with a simple software upgrade. Now you can improve the efficiency of your operation with easy-to-use voice communication that's right for you.

Experience MOTOTRBO digital voice communications, trusted by millions of users for exceptional voice quality and exceptional performance — meaning a more productive workforce and lower operating costs for your business.

Popular with these industries:
- Construction
- Education
- Healthcare
- Hospitality
- Manufacturing
- Property management
- Sports

Key features

- Supports digital and analog communications
- UHF, VHF
- 16 channels (non-keypad), 160 channels (Limited and full keypad)
- 1 - 4.0 Watts (UHF) / 1 - 5.0 watts (VHF) output power
- MIL-STD 810 and IP54-rated durability
- Dual capacity direct mode
- Transmit interrupt (decode only)
- Pre-programmed text messaging

Motorola Solutions MOTOTRBO™ R2 portable two-way radio

Carrying an IP55 rating — and meeting MIL-STD-810 requirements across 11 environmental conditions — the MOTOTRBO™

R2 is designed to weather diverse work environments. Use with confidence in dusty factories, wet landscaping and more; and with ease, even while wearing gloves. Specially engineered to survive the bumps and bruises of an active workday, the R2's durability means confident, quick communication whenever and wherever you need it.

Be Reliable.
A next-level workhorse, the MOTOTRBO R2 combines durability and ergonomics to ensure confident, easy handling. And with superior range, configurable audio and seamless integration, the R2 is a reliable addition to an uninterrupted workday.

Durable, lightweight and long-lasting, MOTOTRBO R2 proves the right choice for all-day reliability, even in challenging work environments. Use with confidence in dusty factories, wet landscaping and more; and with ease, even while wearing gloves.

With SINC+ noise cancellation, long range and selectable audio profiles, MOTOTRBO R2 shines in noisy work environments; communicate with clarity to stay safe near a punch press, pneumatic drill, bulldozer and more.

Popular with these industries:
- Construction
- Manufacturing
- Warehouse

Key features

- Supports digital and analog communications
- UHF, VHF
- 64 channels
- 1 - 4.0 watts (UHF) / 1 - 5.0 watts (VHF) output power
- Loud audio - up to 101 phons
- MIL-STD 810 and IP55-rated durability
- SINC+ noise cancellation
- Sleek and slim form factor
- Superior range

Motorola Solutions MOTOTRBO™ SL300 portable two-way radio

The MOTOTRBO™ SL300 provides reliable push-to-talk communication for the mobile, everyday user in an ultra-slim and rugged profile. Whether you're coordinating a school event or working in the field, the SL300 is boldly designed to keep you efficiently connected.

The latest technology works to make the operation of the SL300 simple and straightforward. Ergonomic design allows one-handed radio operation, and a versatile accessory portfolio gives you the freedom to focus on the job at hand.

The SL300 is compatible with the MOTOTRBO features you'll find are business-essential, for example a transmission can be interrupted to prioritize critical communications. Additionally, the SL300 utilizes digital and analog radio technology concurrently to fit seamlessly into your existing communication system.

Slim and stylish, for the customer service user who needs intuitive technology
Measuring under an inch thick, the SL300 is ultra-portable. A stubby antenna, curved edges and rugged frame make the SL300 the perfect work partner. It can be easily carried in pockets and purses without snagging or bulging.

Active View Display – optional (SL300 display model)
Shatterproof Active View display uses hidden LED lighting to communicate channel, radio, and volume information crisply in both daytime and nighttime situations.

Connect to intuitive technology with this slim, lightweight radio. An eye-catching Active View display combines ruggedness with simplicity, and patented Range Max technology delivers great coverage with long battery life in a small, convenient outline. The radio supports analog and digital modes and is complemented by a range of innovative accessories.

Popular with these industries:
- Education
- Hospitality
- Property management
- Retail
- Security

Key features

- Supports digital and analog communications
- UHF, VHF
- 2 channels (non-display) / 99 channels (display)
- 1.0 – 3.0 watts output power
- Built to last: MIL-STD 810 and IP54-rated durability
- Analog/digital operation
- Designed for easy, intuitive use

Motorola Solutions MOTOTRBO™ CM200d and CM300d mobile two-way radio

The MOTOTRBO™ CM Series mobile radios are a reliable, cost-efficient solution to keep your team in contact so they can communicate, coordinate and collaborate for maximum efficiency and safety. The CM Series is designed for the everyday driver, so your workers can connect without distraction, whether they're delivering cargo, dispatching trucks, or driving a school bus. The CM Series is easy to use and delivers clear communication for maximum efficiency of your operation.

It's easy to transition your business to digital technology
The rugged MOTOTRBO CM200d and CM300d radios offer all the benefits of the latest technology – twice the capacity, greater coverage and superior audio. These affordable mobiles are compatible with the MOTOTRBO features you'll find are business-essential, for example a transmission can be interrupted to prioritize critical communications.

The CM200d and CM300d are so easy to use and deliver such clear voice communications, you'll be amazed how efficient your operation can be.

Popular with these industries:
- Construction
- Education
- Transportation
- Manufacturing
- Warehouse

Key features

- Supports digital and analog communications
- UHF, VHF
- 16 channels (CM200d) / 99 channels (CM300d)
- 1 - 25 watts (low power UHF), 25 - 40 watts (high power UHF) output power
- 1 - 25 watts (low power VHF), 25 - 45 watts (high power VHF) output power
- Alphanumeric display (CM300d)
- Numeric display (CM200d)
- MIL-STD 810 and IP54-rated durability

Entry professional tier radios

Commercial radios

Connect your entire operation with MOTOTRBO™ digital portable radios

MOTOTRBO™ will transform your workplace with remastered digital technology. Whether you're looking for an incredibly sleek, lightweight digital radio or a scalable portable that puts digital within reach, MOTOTRBO™ has a device to fit you. We have the most comprehensive portfolio of digital products and the industry's largest collection of data applications.

Entry Professional Tier

SL 3500e
With its slim, lightweight design, the MOTOTRBO SL3500e portable two-way radio is stylish and discreet. It blends seamlessly with professional attire, allowing you to move freely.

R5
MOTOTRBO R5 connects teams, helping boost efficiency and safety with loud, clear audio and intuitive status indications and controls, all in a tough, compact device.

XPR 2500
The power of digital communications is now within reach with the MOTOTRBO XPR 2500 mobile two-way radio. Compact and capable, it keeps workers connected whether they are picking up cargo or transporting passengers.

Motorola Solutions MOTOTRBO™ SL3500e portable two-way radio

Now your business can have the power of instant, two-way radio communication without compromising your style.

With its slim, lightweight design, the MOTOTRBO SL3500e portable two-way radio is stylish and discreet. It blends seamlessly with professional attire, allowing you to move freely. At the same time, it's durable and built to last.

Get quick access to key radio functions along with information at a glance. Connect discreetly to Bluetooth® earpieces and sensors. Access Wi-Fi networks for over-the-air software updates. And use the SL3500e on trunking systems that support both data and voice.

Popular with these industries:

- Education
- Hospitality
- Property management
- Retail
- Security

Watch now

Key features

- Supports digital and analog communications
- UHF, VHF
- 128 channels
- Fixed Privacy Key Decryption
- Virtual keypad and display
- Bluetooth® connectivity
- Integrated Wi-Fi®
- Systems capable

Motorola Solutions MOTOTRBO™ R5 portable two-way radios

MOTOTRBO R5 connects teams, helping boost efficiency and safety with loud, clear audio that cuts through background noise, plus intuitive status indications and controls so workers can focus on their tasks, all in a tough, compact device that's built to last.

Cut through the noise
R5 is designed to perform across a wide range of workplace environments and worker profiles. Its loud audio, AI-trained noise suppression, IMPRES technology and Received Audio Levelling automatically adjust sound levels to help deliver consistent communications, so messages can be heard clearly across diverse work settings.

Focus on the task
Optimized controls, tactile buttons and long battery runtime make R5 easy and intuitive to use all day long so workers can focus on their job, not their radio. With a wide range of accessories including RSMs, earpieces, headsets and carry cases available, users can customize their radio to meet their specific workplace requirements.

Built to last
R5 has been designed to withstand the knocks and drops of the workplace so it will work as well in the future as it does today. And users don't have to worry about getting the radio wet or dirty; its IP67 rating means R5 can withstand damage from dust and immersion in water.

MOTOTRBO R5 within the Motorola Solutions safety and security ecosystem
Motorola's ecosystem of technologies helps protect people, property and places. Voice, video and data are unified, so information flows, operations run, and collaboration improves to help strengthen safety everywhere. Built to seamlessly evolve and scale and grounded in nearly 100 years of close customer and community collaboration, it's the technology ecosystem that's solving for safer.

Popular with these industries:
- Construction
- Manufacturing
- Warehouse

Key features

- Loud audio programmable up to 106 phons
- AI-trained noise suppression cuts background noise
- Long talk time up to 32 hours on a single charge
- IP67 rated dust-tight and waterproof
- Rugged MIL-STD-810H durability
- Easy-to-use controls and status indications
- Sleek and compact form factor
- Intrinsically safe (UL TIA-4950)

Motorola Solutions MOTOTRBO™ XPR™ 2500 mobile two-way radio

Picking up cargo or re-routing school buses, how do you make sure your people stay connected and safe? MOTOTRBO™ can help by putting the power of digital communications within reach. Versatile and powerful, the MOTOTRBO XPR™ 2500 combines the best of two-way radio functionality with the latest digital technology for enhanced voice communications.

MOTOTRBO XPR™ 2500 mobile radios are compact and capable for the busy mobile worker who needs digital technology at an affordable cost. You get all the advantages of digital – including systems capability, twice the calling capacity and clearer voice communications.

Popular with these industries:

- Construction
- Manufacturing
- Transportation
- Utilities
- Warehouse

Key features

- Supports digital and analog communications
- UHF, VHF
- 128 channels
- 1 - 25 Watts (Low Power UHF), 25 - 40 Watts (High Power UHF) Output Power
- 1 - 25 Watts (Low Power VHF), 25 - 45 Watts (High Power VHF) Output Power
- Alphanumeric Display
- MIL-STD 810 & IP54-Rated Durability

Hear and be heard clearly on the move

When it comes to exceptional audio quality, digital technology can't be beaten. The XPR 2500 delivers clarity throughout your coverage area plus unique features to help employees hear and be heard clearly. With its Intelligent Audio, for example, drivers don't need to adjust their radio volume when there is a lot of background road noise, as the radio adjusts itself.

Integrate your devices seamlessly

Make sure your new MOTOTRBO system is ready when you are. We can bring together the right experts and processes to help you integrate MOTOTRBO mobile radios into your existing system, quickly and cost-effectively.

Migrate at your own pace

Keeping operations running smoothly during a change in communication systems is vital to your operation. Now you can transition to digital with great confidence and low risk at a price you can afford.

Professional enhanced tier radios

Commercial radios

Connect your entire operation with MOTOTRBO™ digital portable radios

MOTOTRBO™ will transform your workplace with remastered digital technology. Whether you're looking for an incredibly sleek, lightweight digital radio or a scalable portable that puts digital within reach, MOTOTRBO™ has a device to fit you. We have the most comprehensive portfolio of digital products and the industry's largest collection of data applications.

Professional Enhanced Tier

ION

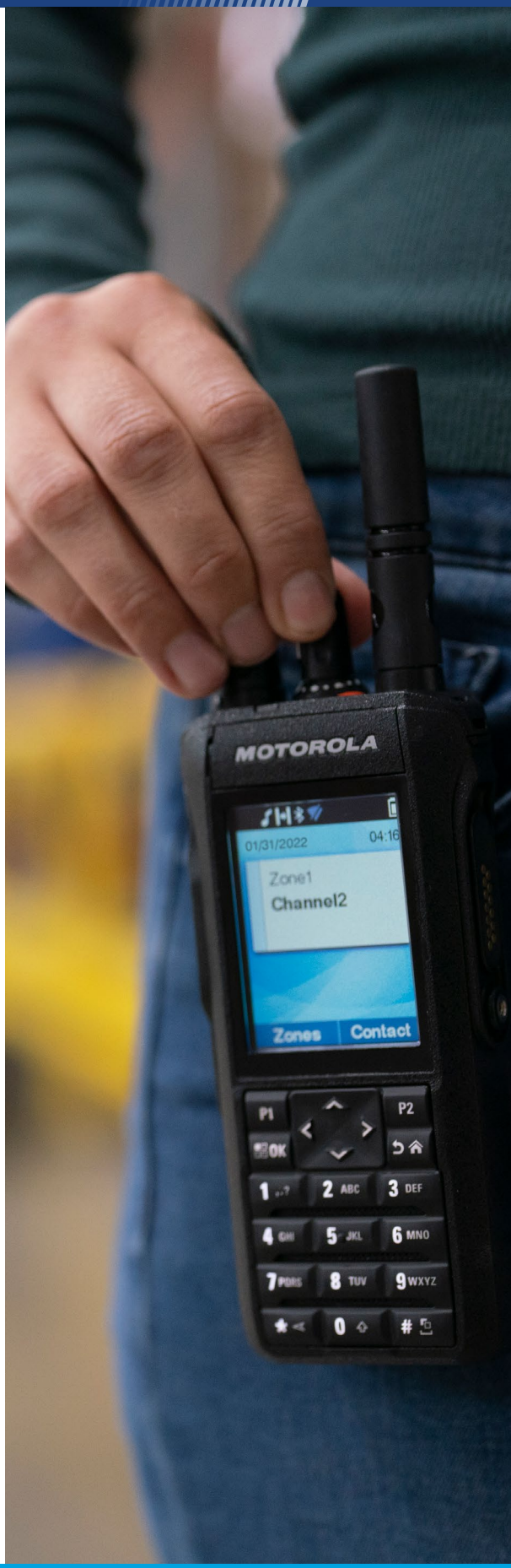
The rugged MOTOTRBO™ Ion smart radio is the first business-ready communication device with all-on voice and broadband data capabilities.

R7

With advanced audio processing, rugged construction, and advanced connectivity options, these portable radios get your workforce ready for tomorrow.

XPR 5000e

With high performance integrated voice and data, and advanced features for efficient operation, these mobile radios deliver complete connectivity to your organization.



Motorola Solutions MOTOTRBO™ ION portable smart portable radio

Your business runs on voice and data. But if your devices can only access one, you're not running at your best. The rugged MOTOTRBO™ Ion smart radio is the first business-ready communication device with all-on voice and broadband data capabilities.

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.

Apps are ON
Dependability is ON
Connectivity is ON
Uptime is ON
Security is ON

Popular with these industries:
- Education
- Construction
- Healthcare
- Hospitality
- Manufacturing
- Transportation
- Warehouse

Watch now

Key features

- UHF, 800/900 MHz, LTE
- Up to 1,000 channels
- 1 - 4.0 Watts (UHF)
- Bluetooth 5.0
- MIL-STD 810 & IP55-Rated Durability

Motorola Solutions MOTOTRBO™ R7 portable two-way radio

MOTOTRBO™ R7 offers game-changing audio capabilities in a rugged, future-ready device. Its advanced audio processing ensures that your communications are loud and clear, while its rugged construction is ready for harsh environments, and advanced connectivity options get your workforce ready for tomorrow.

Loud and clear
Providing next-level noise-cancelling, loudness, and clarity, MOTOTRBO R7 excels where audio communications can be challenging, so your team can hear and be heard anywhere you operate, even in the noisiest environments.

Popular with these industries:
- Education
- Construction
- Healthcare
- Hospitality
- Manufacturing
- Transportation
- Warehouse

Watch now

Key features

- UHF, VHF, 800/900 MHz
- Wi-Fi 2.4/5.0 GHz
- 64 channels (No keypad), 1,000 channels (Keypad model)
- 1 - 4.0 Watts (UHF) / 1 - 5.0 Watts (VHF) Output Power
- MIL-STD 810 & IP68 Rated Durability
- Bluetooth 5.2
- Programmable loudness up to 107 phons

Motorola Solutions MOTOTRBO™ XPR5000e mobile two-way radio

XPR 5000e Series provides voice, data and advanced features for efficient operation for skilled professionals who refuse to compromise.

Popular with these industries:

- Education
- Construction
- Manufacturing
- Transportation
- Warehouse

Key features

- Supports digital and analog communications
- UHF, VHF, 800/900 MHz
- 32 channels (Numeric model), 1,000 channels (Alphameric model)
- 1 - 25 Watts (Low Power UHF), 25 - 40 Watts (High Power UHF) Output Power
- 1 - 25 Watts (Low Power VHF), 25 - 45 Watts (High Power VHF) Output Power
- MIL-STD 810 & IP54-Rated Durability
- Integrated Wi-Fi

With MOTOTRBO XPR 5000e Series digital two-way radios, you're better connected, safer and more productive. It is designed for the skilled professional who refuses to compromise. With high performance integrated voice and data, and advanced features for efficient operation, these radios deliver complete connectivity to your organization.

Connected
The XPR 5000e Series is a family of DMR-standard digital radios that delivers operations-critical voice and data communications. Bluetooth audio lets you talk without wires. Integrated Wi-Fi enables remote software updates, as well as voice connectivity via WAVE PTX when you are out of range of your MOTOTRBO system (service subscription required).

Safe
Safeguard your staff with responsive push-to-talk technology. The quick access buttons on XPR 5000e Series radios can summon help with one touch, using Transmit Interrupt to clear a channel when necessary. A range of safe driving accessories allows your workers to communicate hands-free and text-to-speech technology helps your drivers keep their eyes on the road.

Productive
Text messaging and work order ticketing simplify complex communications, and data capabilities support advanced applications. Featuring a high-power audio amplifier, these radios deliver loud, clear speech, with background noise cancellation for better intelligibility.

MOTOTRBO portable radio features

	CP10d	R2	SL300	SL 3500E	R5	R7
FREQUENCY BAND	VHF, UHF	VHF, UHF	VHF, UHF	VHF, UHF	VHF, UHF	VHF, UHF
CHANNELS	16, 160	64	2, 99	128	256	1000
IP RATING	IP54	IP54	IP54	IP54	IP67	IP68
DIGITAL	Y	Optional	Y	Y	Y	Y
ANALOG	Y	Y	Y	Y	Y	Y
BASIC PRIVACY	N/A	Y	Y	Y	Y	Y
BLUETOOTH AUDIO	N/A	N/A	N/A	Y	Y	Y
BLUETOOTH DATA	N/A	N/A	N/A	Y	Y	Y
DISPLAY	Optional	N/A	Optional	Y	Optional	Y
EMERGENCY CALL	N/A	N/A	Y	Y	Y	Y
ENHANCED PRIVACY	N/A	N/A	N/A	5 Years	Y	Y
GPS	N/A	N/A	N/A	N/A	N/A	Y
HAZLOC	N/A	N/A	N/A	N/A	N/A	Y
IMPRES ENERGY	N/A	N/A	N/A	N/A	Y	Y
IMPRES OVER-THE-AIR	N/A	N/A	N/A	N/A	Y	Y
INDOOR LOCATION-TRACKING	N/A	N/A	N/A	N/A	Y	Y
INTELLIGENT AUDIO	N/A	N/A	N/A	Y	Y	Y
KEYPAD	Optional	N/A	N/A	N/A	Optional	Y
LONE WORKER	N/A	N/A	Y	Y	Y	Y
MAN DOWN	N/A	N/A	N/A	N/A	N/A	Y
OTAP	N/A	N/A	N/A	Optional	Optional	Y
RADIO DISABLE / ENABLE	Decode Only	Decode Only	Decode Only	Y	Y	Y
REMOTE MONITOR	Decode Only	Decode Only	Decode Only	Y	Y	Y
TEXT MESSAGING	Quick Text (Optional)	N/A	N/A	Quick Text	Y	Y
TEXT TO SPEECH	N/A	N/A	N/A	N/A	Y	Y
THIRD-PARTY APPLICATIONS	N/A	N/A	N/A	N/A	Y	Y
TRANSMIT INTERRUPT	Decode Only	Decode Only	Decode Only	5 Years	N/A	Y
USER-SELECTABLE AUDIO PROFILES	N/A	N/A	N/A	Y	Y	Y
VIBRATE	N/A	N/A	N/A	N/A	N/A	N
VOICE ANNOUNCEMENT	Y	Y	Y	Y	Y	Y
WI-FI	N/A	N/A	N/A	Optional	Y	Y
DUAL CAPACITY DIRECT MODE	Y	Y	Y	Y	Y	Y
CONVENTIONAL	Y	Y	Y	Y	Y	Y
IP SITE CONNECT	N/A	N/A	N/A	Optional	Optional	Y
CAPACITY PLUS	N/A	N/A	N/A	Optional	Optional	Y
CAPACITY MAX	N/A	N/A	N/A	N/A	N/A	Y
CONNECT PLUS	N/A	N/A	N/A	N/A	N/A	N

ION
UHF
1000
IP68
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
N
5 Years
Y
Touchscreen
Y
5 Years
LTE/Wi-Fi
Y
Y
Y
N
Y
Y
Y
N
N
Y
Y
Y
Y
Y
Y
N

MOTOTRBO mobile radio features

FEATURE	DESCRIPTION	CM SERIES		XPR2000 SERIES	XPR5000E	
		CM200D	CM300D	XPR2500	XPR5380E/	XPR5580E/
PROTOCOL	DMR digital or analog communication	Analog/Digital [5]		Analog/Digital	Analog/Digital	
FREQUENCY RANGE	Capable of operating in the following frequency ranges	VHF & UHF [1]		VHF & UHF [1]	UHF: 403-470, 450-512 MHz, VHF 136-174 MHz, 806-941 MHz	
MAX. POWER OUTPUT	Radio's full power rating	1-25W or 25-45W VHF, and 1-25W or 25-40W UHF		25W or 45W UHF, 25W or 40W UHF	25W or 45W UHF, 25W or 40W UHF	
MAX. CHANNEL CAPACITY	Programmable channel capacity	16	99	128	99	
DISPLAY	Displays provide easy access to advanced features	2-digit numeric	2-line monochrome	2-line monochrome	2-digit numeric	
KEYPAD	Keypads provide access to radio controls, texting and telephon	N	Menu Buttons	Menu Buttons	N	
INTEGRATED GPS	Embedded GPS telephone receiver for location monitoring	N		N	Y[2]	
INTEGRATED BLUETOOTH CAPABILITY	Bluetooth	N		N	Audio and Data [2]	
PERMANENT BLUETOOTH DISCOVERY	"Always on" mode used by some location tracking applications	N		N	N	
DEDICATED EMERGENCY BUTTON	Orange programmable button for one-touch emergency calling	N		N	N	
PROGRAMMABLE BUTTONS	Allows access to most often used features with one press	2	4	4	4	
DIGITAL DMR SIGNALING	DMR standard digital voice communications	Y		Y	Y	
PL/DPL SIGNALING	Analog Private Line/ Digital Private Line compatible	Y		Y	Y	
QUICK CALL II SIGNALING	Analog Quick Call II compatible	Y		Y	Y	
MDC SIGNALING	Analog MDC compatible	Y		Y	Y	
5 TONE SIGNALING	Analog 5 tone compatible	N		Y	Y	
DTMF HOT KEYPAD	DTMF tone compatible	Y[6]		Y[6]	Y [6]	
MPT1327 SIGNALING	Analog MPT1327 compatible (requires option board)	N		N	Option	
OPTION BOARD CAPABILITY	Supports option boards for third-party applications	N		N	Y	
IMPRES AUDIO COMPATIBLE	IMPRES audio ensures your voice is heard clearer and louder	N		N	Y	
IP RATING	Rated sealing for dust and water ingress	IP54		IP54	IP54	
DIMENSIONS (HXWXL)	Physical size	1.7 x 6.7 x 5.3 in		44 x 169 x 134	53 x 175 x 206	
DIMENSIONS (WEIGHT)	Physical weight	2.9 lbs		1.3 kg	1.8 kg	

Features and funtions

FEATURE	DESCRIPTION	CM SERIES		XPR2000 SERIES	XPR5000E	
		CM200D	CM300D	XPR2500	XPR5380E/ XPR5350E	XPR5580E/ XPR550E
INTELLIGENT AUDIO	Automatic volume control based on background noise levels	N		Y	Y	
EMERGENCY ALARM	Radio can initiate an emergency call process	Y		Y	Y	
LONE WORKER	Initiates emergency if user does not respond to periodic alerts	Y		Y	Y	
REMOTE MONITOR	Radio can remotely activate another radio's microphone or receive and execute a command to enable its microphone	Recieve and execute only		Y	Y	
FREEFORM TEXT MESSAGING	User can enter and send free-form text messages	N		N	Y[6]	
PRE-PROGRAMMED TEXT MESSAGING	Radio can send pre-programmed text messages	Y		Y	Y	
DIGITAL TELEPHONE PATCH	Ability to connect to telephone system (requires additional hardware)	N		Option	Yes	
TRANSMIT INTERRUPT DECODE	Radio transmissions can be interrupted by other radios	Y		Y	Y	
TRANSMIT INTERRUPT ENCODE	Radio can interrupt transmissions from other radios	N		Option	Y	
BASIC PRIVACY	MOTOTRBO 16-bit encryption for protection against eavesdropping	Y		Y	Y	
ENHANCED PRIVACY	MOTOTRBO 40-bit encryption for more robust protection	N		Option	Y	
DEFAULT VOICE ANNOUNCEMENT	Audible confirmation of selected operations of the radio	Y		Y	Y	
PROGRAMMABLE VOICE ANNOUNCEMENT	Ability to use customized recordings for voice announcements	Y		Y	Y	
RADIO MANAGEMENT	RM provides centralized radio configuratoin and code plug management	Y		Y	Y	
OVER THE AIR PROGRAMMING (OATP)	Remote, over-the-air programming using Radio Management	N		N	Y	
RESTRICTED ACCESS TO SYSTEM	Prevents unauthorized users from communicating through the repeater	Y		Y	Y	
RADIO ENABLE/DISABLE	Radio can remotely disable and re-enable another radio	Decode Only		Y	Decode Only	Y
DUAL CAPACITY DIRECT MODE	Use both TDMA time slots to double capacity without using a repeater	Y		Y	Y	
FIXED INSTALLATION	Mobile radios can be used in a fixed installation such as a control room	Y		Y	Y	
CONTROL STATION	Mobile acts as RF link between Application Server and radio network	N		Y	Y	
REMOTE MOUNT CONTROL HEAD	Remote control head mounting	N		N	Option	

System configurations

DIRECT MODE OPERATION	Direct radio-to-radio operation	Y		Y	Y	
SINGLE-SITE CONVENTIONAL	Single-site conventional operation (channel selection by users)	Y		Y	Y	
IP SITE CONNECT	Multi-site conventional operation (channel selection by users)	Option		Option	Y	
CAPACITY PLUS (SINGLE AND MULTI-SITE)	Single-site trunking (channel selection managed by system)	N		Option	Y	
CAPACITY MAX	Multi-site DMR Tier III trunking with dedicated control channel	N		N	Option	

[1] VHF frequency range supported is 136-174 MHz. UHF frequency range supported is 403-470 MHz.
[2] Integrated Bluetooth and GPS are supported on DP4 x 01e & DM4601e only
[3] Based on NiMH battery
[4] Based on Li-Ion battery
[5] Analog-only models of CP200d, CM200d and CM300d also available. Analog models can be upgraded to MOTOTRBO digital by purchasing a software license
[6] Requires keypad microphone

800-872-3884 • www.radioresource.com

MOTOTRBO™ radio accessories

Resilience without compromise

MOTOTRBO Accessories

MOTOTRBO radios are already the best in class, but to help you work at your best, you need enhancements targeted to your specific workplace. Motorola Solutions (MSI) has developed a line of accessories with unique features designed to optimize the performance of your radio in your work environment, unleashing the full power of the industry's most advanced digital radio platform.

As you walk from the production line, across hotel grounds, or to the store stockroom, you can work more easily and efficiently wearing a comfortable, convenient accessory. Combine MSI's best-in-class radios with accessories to achieve even greater productivity and cost-savings. Together, you'll rethink what's an accessory – and what's a necessity.

Only Motorola Solutions accessories unleash the full power of MOTOTRBO – the most advanced digital radio platform in the industry. So, as you deliver packages, dispatch trucks and coordinate shipments, you can work more easily and efficiently with our comfortable, convenient and practical accessories.

That's why it's important to use Motorola Solutions tested and certified accessories with your MOTOTRBO radios. They're the only ones designed, built and tested with your radio to optimize its performance.

Audio

Clear, comfortable and convenient

Customize your audio experience with a purpose-built audio accessory designed to complement MOTOTRBO radios' form factor.

A range of wired and wireless audio accessories enable a tailored experience. Bluetooth 5.0 provides fast and secure wireless connectivity, while the sleek and compact GCAI-mini wired accessory port is designed for improved wearability.

Remote Speaker Microphones

Motorola Solutions' robust portfolio includes Remote Speaker Microphones, Public Safety Microphones and secondary audio accessories engineered to give you clearer communications even in loud environments.

Energy

Strong enough to last all shift

If the battery dies, it jeopardizes everything. Our slim, lightweight batteries provide a battery life that lasts a full shift – ensuring your MOTOTRBO portable radio works when you need it. A variety of flexible charging solutions enables you to charge one or up to six batteries simultaneously – so your radios are always ready for the next shift.

If your radio gets banged on a ride, rattled by heavy equipment or shocked by static electricity, MSI's batteries will stay true and stand tough. These rigorous lab tests prove that Motorola Solution radio batteries perform robustly and reliably, despite the toughest conditions. What's more, it stands behind every battery it builds..

Chargers

MOTOTRBO ION

IMPRES 2 Multi-Unit Fast Charger

Customize your audio experience with a purpose-built audio accessory designed to complement MOTOTRBO radios form factor.

A range of wired and wireless audio accessories enable a tailored experience. Bluetooth 5.0 provides fast and secure wireless connectivity, while the sleek and compact GCAI-mini wired accessory port is designed for improved wearability.

Carry

Safe and secure

Choose from plastic carry cases, hard leather carry cases, and belt clips, all designed for ease yet provide secure access to the MOTOTRO Ion radio when wearing it on the waist or hip — so your team can stay hands-free and focused on the task ahead.

IMPRES™ 3-Wire Surveillance Kit with Translucent Tube

Transmit and receive discreetly with a variety of surveillance kits that feature a streamlined design and rugged cables that withstand tough conditions. A quick-disconnect, durable and comfortable translucent tube enables easy sharing between shifts. Two-wire kits have one wire for receiving transmissions and one wire with a combined microphone and push-to-talk.

Antennas

Long-Distance Clarity

Motorola Solutions' redesigned portable radio antennas provide convenience without compromising performance. Shorter and compliant conforming to the user in mission-critical environments.

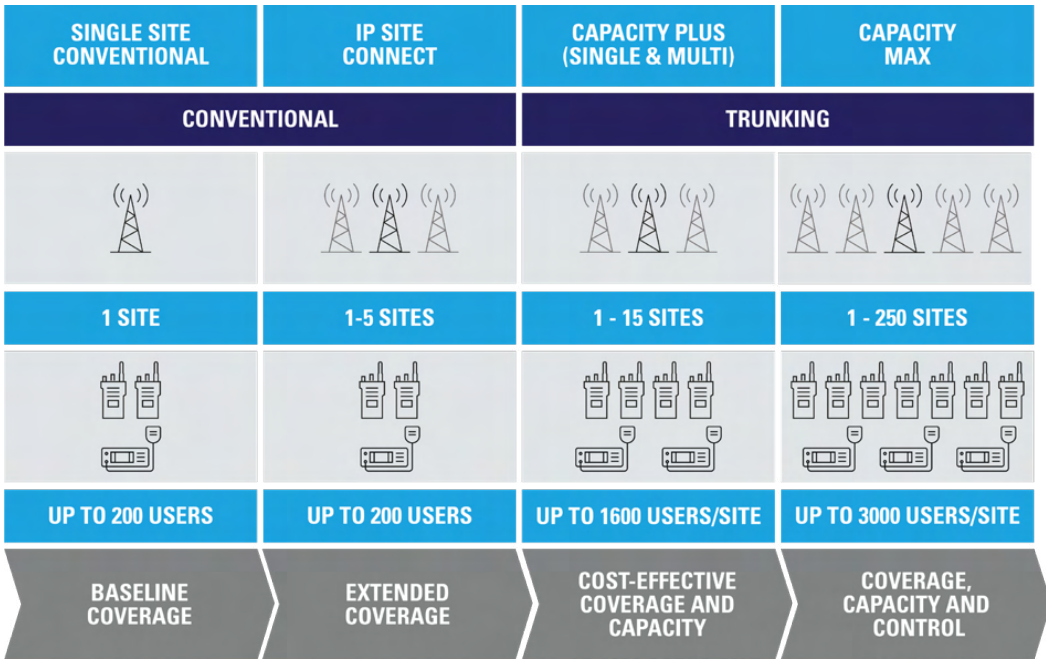
For optimum range and quality, it is important to match the mobile radio's frequency with the proper Motorola antenna. These are available as standard 1/4 wave models or can include 2dB, 3dB, 3.5dB or 5dB signal gain.

MOTOTRBO™ systems

MOTOTRBO Systems

No matter how large or small your enterprise, MOTOTRBO offers a wide range of systems specifically designed for your business – for the days ahead and the years beyond. You get the best of two-way radio with digital technology and enjoy integrated voice and data communication, increased capacity, enhanced features and exceptional voice quality, across the city and around the globe.

MOTOTRBO systems offer several advantages over conventional systems and direct mode, such as more user capacity, customized coverage and increased control. Systems can be deployed for single- or multi-site, employing dynamic trunking to increase capacity, for up to 3,000 users per site, and up to 250 configurations. MOTOTRBO systems are the backhaul for not only voice but also data for a network of applications developed specifically by and for users. Motorola Solutions Entry-Level Professional radios are designed for use on our Capacity Plus Systems, and Professional Enhanced for Capacity Max systems.



Watch now

Conventional
Baseline single-site coverage and capacity
A conventional system is a step up from basic radio-to-radio communications. Radios communicate via a high-power repeater, giving better coverage and more centralized control.

IP Site Connect
Cost-effective coverage for multiple sites
Use your IP network to extend the voice and data capabilities of MOTOTRBO by linking repeaters together. You can create a continuous network that covers employees at 15 geographically dispersed locations. You can also link up to 15 repeaters to create wide area coverage or enhance coverage quality at a single site.

Capacity
Cost-effec
multiple si
Expand the
MOTOTRB
system. Wi
Linked Cap
each with u
to 12 dedic

MOTOTRBO system comparison chart

	DIRECT MODE	SINGLE SITE CONVENTIONAL	IP SITE CONNECT
REPEATERS	0 or 1[1]	1	15
SITES	0	1	15
RADIOS / SITE	–	200	200
RADIOS	100	200	200
TRUNKING	N	N	N
ETCA (COLLISION MITIGATION)	N	N	N
PRIORITIZATION	N	N	N
STORE AND FORWARD TEXTS	N	N	N
R7	Y	Y	Y
ION	Y	Y	Y
SL 7000 AND SL 7000E SERIES	Y	Y	Y
XPR 7000 AND 7000E SERIES	Y	Y	Y
XPR 5000 AND 5000E SERIES	Y	Y	Y
XPR 6000 AND XPR 4000 SERIES	Y	Y	Y
XPR 3000 AND 3000E SERIES	Y	Y	Optional
SL3500E	Y	Y	Optional
XPR 2500	Y	Y	Optional
SL300	Y	Y	N
CP200D, CM200D, CM300D	Y	Y	N

[1]SLR Repeaters can be used for Extended Range Direct Mode.
[2]Maximum capacity, based on standardization low traffic call model.

Plus

tive coverage and capacity for single and tes

e capacity and extend the coverage of O with this entry-level digital trunking th multi-site Capacity Plus (formerly acity Plus) you can connect up to 15 sites, up to 8 voice and data repeaters — plus up ated data repeaters.

Capacity Max

Coverage, capacity and control for single and multiple sites

The next generation of trunking has arrived. MOTOTRBO Capacity Max blends innovation with Motorola's extensive real-world experience of trunked radio systems to deliver a scalable communications solution that's perfect for your business.

CAPACITY PLUS	CAPACITY MAX
120	5250
15	250
1600	3000
24000	90000
Dynamic	Full
N	Y
N	Y
N	Y
Y	Y
Y	Y
Y	Y
Y	Y
Y	Y
Y	N
Optional	N
Optional	N
Optional	N
N	N
N	N

MOTOTRBO™ infrastructure

MOTOTRBO infrastructure

Maximize the functionality and scalability

Robust infrastructure products, such as repeaters, will maximize the functionality and scalability of your MOTOTRBO system's two-way radio communications.

Motorola Solutions' diverse portfolio of infrastructure products offers complete solutions to maximize the performance of your two-way radio system, helping to ensure clarity, reliability and security.

Professional Enhanced Tier

SLR 1000 Repeater
Using the SLR 1000 repeater, you can easily extend the range of your network through dead zones and across remote locations, so everyone's within reach.

SLR 5000 Series Repeater
The MOTOTRBO SLR 5000 Series Repeater delivers high-performance, high-reliability two-way radio service with all the features you need to connect your workplace.

SLR 8000 Repeater
The SLR 8000 Series delivers high-performance, high-reliability two-way radio service, optimized for your workplace.

Motorola Solutions MOTOTRBO™ SLR 1000 repeater

Whether you want to eliminate dead zones or expand coverage to remote locations, count on the SLR 1000. Compact, easy to install, and designed to work indoors or out, it's built to grow as your needs do.

Keeping your team connected requires uninterrupted radio coverage. But often, network dead zones and remote locations present barriers to seamless communication.

Coverage without complications

Unlike traditional repeaters, the SLR 1000 is IP65-rated for dust and water protection, so you can deploy it on campuses, in parking garages, and across other outdoor locations. The compact size gives you more installation options, such as mounting on walls or poles. And a low power, fanless design uses less space and energy, saving you money right from the get-go.

As your organization grows, the SLR 1000 can grow with it. It works with both conventional and trunking systems supporting voice and data, so moving to a bigger system won't always require buying a bigger repeater. Above all, it's technology you can trust. With more than 10 years of experience in DMR, you can rely on Motorola Solutions and proven MOTOTRBO™ technology to get the job done.

Deploy in more places
The SLR 1000 makes it simple. With a compact design, you can mount it on walls or poles. And since the SLR 1000 doesn't require cooling from HVAC, you have more placement options. All while eliminating the planning headaches and added costs that come with HVAC.

Unite your team
The SLR 1000 is part of the Motorola Solutions Ecosystem. The MSI Ecosystem allows employees to communicate instantly, without boundaries, and with added intelligence across the entire organization.

Pair MOTOTRBO products with WAVE™ push-to-talk and other data solutions to enable machines, applications and people to connect seamlessly, helping bridge the gaps so work gets done faster.

Grows with you
The SLR 1000 works with both conventional and trunking systems that support voice and data, so you can continue to use it as you expand your network. For conventional systems, deploy the SLR 1000 with Extended Range Direct Mode, and expand your range without having to purchase additional frequencies.

Key features

- Supports digital and analog communications
- UHF, VHF
- Channel capacity 64
- 1 - 10 watts output power
- Indoor and outdoor use
- IP65-rated for dust and water protection
- Ease of installation
- Reduced total cost of ownership
- Expandable

Popular with these industries:

- Education
- Construction
- Healthcare
- Hospitality
- Manufacturing
- Property Management
- Warehouse

Motorola Solutions MOTOTRBO™ SLR 8000 Series base station/repeater

For your business to be successful, you need dependable voice and data communications that reach every corner of your operations. The MOTOTRBO SLR 5000 Series Repeater delivers high-performance, high-reliability two-way radio service with all the features you need to connect your workplace whether you're in the field or on the factory floor.

The SLR 8000 is engineered for high-performance, reliability and flexibility and represents the next generation in repeaters. Versatile and powerful, MOTOTRBO combines the best of two-way radio functionality with the latest digital technology. It integrates voice and data seamlessly, offers advanced features that are easy to use and delivers increased capacity to meet your communication needs from the field to the factory floor.

Key features

- Supports digital and analog communications
- UHF, VHF, 800/900 MHz
- Channel Capacity 64
- 1 - 100 Watts Output Power
- Clear voice quality
- Next-generation receiver design
- High performance & reliability

Popular with these industries:

- Education
- Construction
- Healthcare
- Hospitality
- Manufacturing
- Property Management
- Warehouse

Small and powerful
The SLR 8000 is only 2U high, but supports up to 100 W continuous duty operation, with high sensitivity for exceptional coverage. The modular design keeps reliability high while allowing for configurable options.

Versatile
MOTOTRBO SLR 8000 offers the best two-way radio functionality. It integrates voice and data seamlessly, offers advanced features that are easy to use and delivers increased capacity to meet your communication needs from the field to the factory floor.

Scalable
Whether you need the simplicity of a single-site conventional system, the coverage of IP Site Connect, or the powerful trunking capabilities of Capacity Plus or Capacity Max, the SLR 8000 delivers the power of digital two-way radio to your workforce. It can also operate as an analog repeater (conventional or MPT 1327), or as a mixed mode analog/digital repeater while you transition away from a legacy analog system.

Motorola Solutions MOTOTRBO™ Capacity Max System Server

The next generation of trunking has arrived. MOTOTRBO Capacity Max blends real-world experience with technological innovation to deliver a communications solution that's tailor-made for your organization.

Centralized
Capacity Max is built around the Capacity Max System Server (CMSS). This centralized appliance hosts the Trunking Controller, Voice and Radio Command (VRC) gateway, System Advisor management application and CMSS Maintenance application (ESU: Enhanced Software Update). All of these are software applications that run as virtual machines, and do not require individual pieces of dedicated hardware.

Secure
Capacity Max is a highly secure system. It offers traffic encryption and subscriber authentication, and Subscriber Access Control (SAC) to define the services available to each user. The CMSS itself is a locked-down appliance, only configurable via the Radio Management application. It is inaccessible to malicious software and intrusion.

Reliable
The CMSS platform is a mature, reliable, enterprise-grade server with millions of hours of service in the field. It is configured with dual power supplies and RAID disk arrays for additional resiliency. It ships with a multiyear warranty as standard. Additional CMSS's can be deployed for physical and geographical redundancy.

Scalable
The CMSS is highly scalable: One server can support up to 250 sites, with up to 15 voice and data repeaters and up to 6 additional data-only repeaters per site, giving high-quality connectivity to 3,000 users at each location.

Popular with these industries:

- Education
- Construction
- Healthcare
- Hospitality
- Manufacturing
- Property Management
- Warehouse

Motorola Solutions MOTOTRBO™ SLR 5000 Series repeater

For your business to be successful, you need dependable voice and data communications that reach every corner of your operations. The MOTOTRBO SLR 5000 Series repeater delivers high-performance, high-reliability two-way radio service with all the features you need to connect your workplace, whether you're in the field or on the factory floor.

With its sleek form factor and low power consumption, the MOTOTRBO SLR 5000 Series is engineered for low cost of ownership. And with a huge leap forward in technology, it represents the next generation in repeaters as the cornerstone of a MOTOTRBO professional two-way radio system.

Whether you need the simplicity of a single-site conventional system, or the powerful trunking capabilities of Capacity Plus, Linked Capacity Plus or Connect Plus, the SLR 5000 Series delivers the power of digital two-way radio to your workforce.

The SLR 5000 Series is designed to offer round-the-clock reliable operation, even at its continuous full transmit power of 50W. The high-quality design has been validated through Motorola's Accelerated Life Testing (ALT) program, and meets stringent quality criteria.

To deliver reliable coverage throughout your premises, the product has a next-generation receiver design, with high sensitivity and improved noise blocking. Combined with the 50W transmit output power and digital error correction, this gives you clear voice quality, even in the most adverse conditions.

The SLR 5000 Series supports the full MOTOTRBO feature set and is compatible with all the MOTOTRBO system architectures: single-site conventional, IP Site Connect, Capacity Plus (single and multi-site), Capacity Max and Connect Plus. The IP interface allows you to build applications and consoles directly into your system.

Designed for the future
Motorola is committed to supporting you with even more sophisticated workforce communication solutions as your needs evolve, so the SLR 5000 Series is designed with the future in mind. Compared to first-generation repeaters, it has 10x more processing power, 15x more memory and 125x more data storage. The architecture even has provision for expansion modules, should more functionalities be required in the future.

Key features

- Supports digital and analog communications
- UHF, VHF
- Channel capacity 64
- 1 - 50 watts output power
- Clear voice quality
- Next-generation receiver design
- Round-the-clock rock-solid reliability
- Single-site conventional system and trunking capabilities
- Integrated battery charger

Popular with these industries:

- Education
- Construction
- Healthcare
- Hospitality
- Manufacturing
- Property Management
- Warehouse

Applications

Find applications built for your unique business needs

With a wide range of applications and an expert application partners program, MOTOTRBO offers custom solutions that truly meet your business needs. Business-specific applications like these increase the level of efficiency, safety and productivity throughout your enterprise.

Command and control

These applications work behind the scenes of your MOTOTRBO network to enhance the efficiency and responsiveness of your system. Interfacing to a Work Order Ticketing system, managing alarms and telemetry, and connecting to other messaging systems, they bring significant benefits to your business.

Personnel safety

Increase the safety and accountability of your staff by deploying these applications. Features such as Man Down and Lone Worker can be linked to indoor and outdoor location services for maximum effectiveness.

Interoperability

Connect your MOTOTRBO radio system to other communication systems. From analog two-way radio systems to SIP telephone networks to cellular providers, you can increase efficiency and increase collaboration.

Location

Track your vehicles and your staff for improved safety, security and accountability. These applications allow you to make the most of MOTOTRBO's GPS capabilities, and some even offer indoor location tracking capabilities.

System monitoring

To get the best from your MOTOTRBO system, you need to know how it's performing. These applications give you a dashboard view of key metrics and parameters, with detailed logs helping you plan future growth and upgrades.

Text messaging and email

Enhance productivity by connecting your radio network with your text and email system. Allow your staff to use advanced work order ticketing solutions, or simply streamline the flow of information between office and shop floor.

Voice dispatch

Giving you centralized control of your workforce; these applications offer customizable user interfaces to allow your dispatcher to coordinate your staff efficiently and effectively. They also enhance business connectivity by allowing telephony interconnections and multi-system patching.

Work ticket management

These applications enhance efficiency and accountability in the workplace using text-based issue management software. They can be integrated with your existing work-order management solution or can be operated as an independent system.

Console & system management

Change is hard — but Avtec Scout™ makes upgrading your dispatch console a breeze

Dispatch consoles reduce organizational risk by allowing your operations and employees to be more safe and efficient.

Avtec Scout integrates all communication center needs, whether simple, highly complex, or somewhere in between. Scout consoles consolidate radio, telephony, and broadband/LTE technologies into a best-in-class communications solution that offers exceptional audio quality, protection from cybersecurity threats, and virtually endless configuration.

In addition to dispatch consoles, Avtec offers an extended support and maintenance program to keep your consoles up and running in the moments that matter. ScoutCare is Avtec's licensed, post-warranty maintenance and support program. It gives you the assurance and peace of mind that your console investment will always be protected. ScoutCare keeps your team up and running today, with 24/7/365 on-demand support, while keeping an eye on tomorrow, as Avtec continually develops new features, enhancements, and integrations to meet your changing requirements.

Why Avtec Scout?

When your dispatchers are called into action, you want the best tools at their fingertips. Avtec's Scout consoles can handle a broad range of business and mission-critical communications needs — consolidating your radio, telephony, and broadband/LTE technologies into a best-in-class communications solution that offers exceptional audio quality, protection from cybersecurity threats, and virtually endless configurability.

Count on Avtec Scout for: mission-critical reliability

Whether your dispatchers are dealing with a life-saving emergency or coordinating business critical resources for your enterprise, you can count on Avtec to provide:

- Dispatch consoles with built-in redundancies for high availability and stability.
- Communications solutions with exceptional audio quality.
- ScoutCare™ licensed, post-warranty software maintenance and U.S.-based support 24/7/365 to protect against unforeseen issues and to deploy regular system enhancements.

A commitment to cybersecurity

Today's hackers target third-party applications as a pathway to gain access to your primary control systems. Avtec's Scout dispatch consoles are rigorously tested for vulnerabilities prior to each software release.

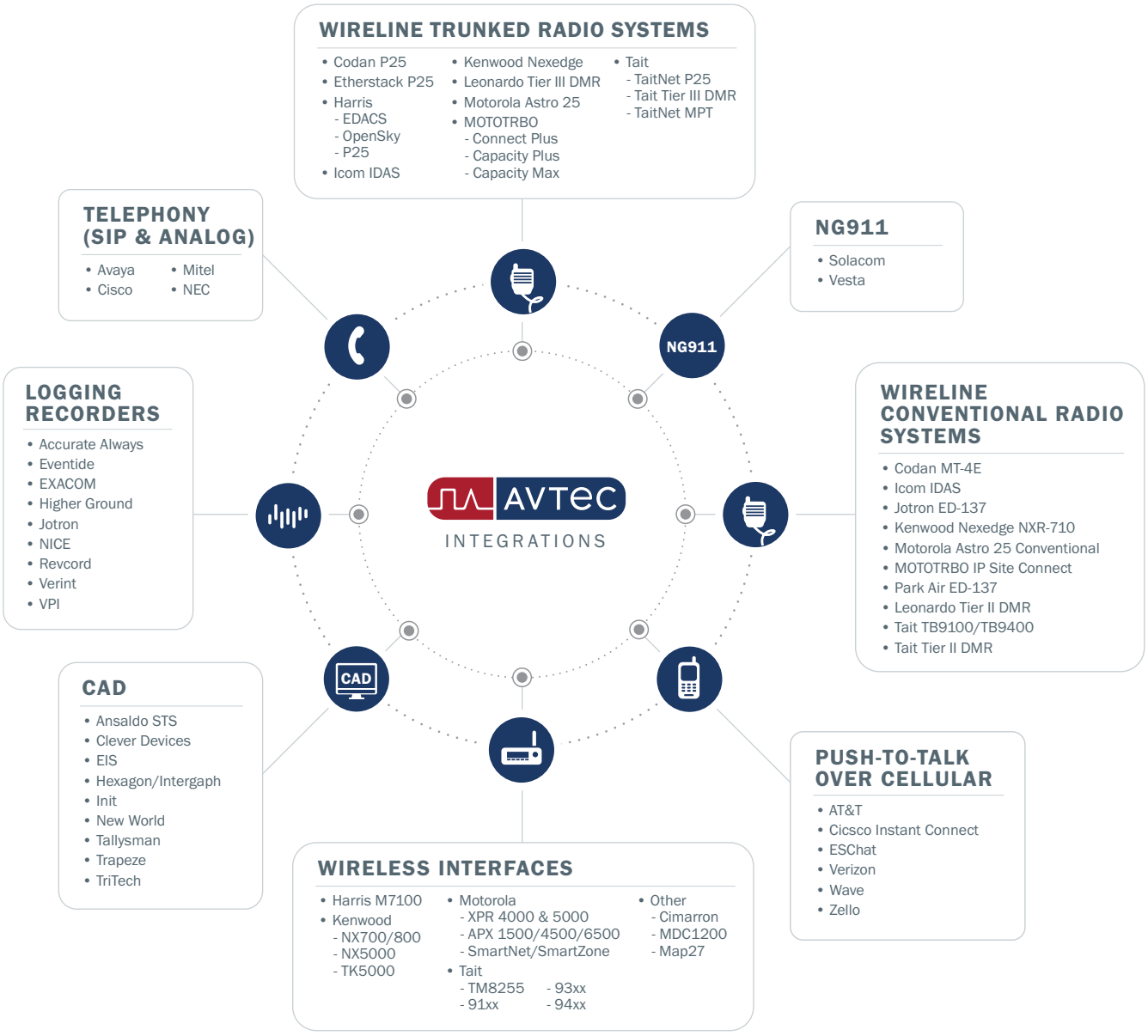
Ease of use

You need technology to bend and flex to meet your changing requirements. Avtec Scout's Enterprise Management Tools enable you to configure your console to your unique business needs, including:

- Customizable screens for role-specific preferences or to mirror legacy systems.
- Quick and intuitive connectivity to all voice resources.

Integration flexibility

You need the freedom to select the right communication tools for the job based on what is most efficient and effective for your team. Avtec Scout's single-source code platform allows you to integrate legacy and next-generation radio, telephony and PoC technologies in both fixed and mobile dispatch environments.



The Scout family of dispatch consoles

One platform. Unlimited possibilities.
The Avtec Scout™ family of dispatch solutions integrates all your communication center needs, whether simple, highly complex, or somewhere in between. Scout provides options for secure, converged voice and radio dispatch communications.

Meet the Scout enterprise family

Avtec Scout EX dispatch console

Avtec's 2,000-Channel Flagship Dispatch Solution

Avtec's Scout™ EX dispatch system is designed for customers who need a scalable, reliable solution for single- and multi-site distribution. Its fully customizable and intuitive interface ensure your dispatchers' screens meet their exact needs. The console's advanced features put all the right tools at your team's fingertips.

Avtec's Scout EX delivers a proven, reliable software dispatch solution that handles up to 250 audio streams and 2,000 channels on fixed or mobile consoles. Built on Avtec's flagship platform — Scout Enterprise, Scout EX is secure, scalable and redundant, as well as deliberately designed to integrate easily with leading radio, telephony and broadband technologies.

Key features

- Supports 2,000 endpoints
- Uses software audio package
- Supports free seating
- Supports ResourcePro Screen Control
- Supports Scout Instant Recall Recorder (IRR)
- Connects to 11 speakers
- Supports telephony, radio, and auxiliary input/output endpoints
- Supports five patches

Avtec Scout E8 dispatch console

Avtec's powerful eight-channel dispatch solution

Powered by the same technology as Avtec's flagship Scout EX solution, the Scout E8 dispatch console delivers the same robust capabilities for dispatch centers that require fewer communication channels. Its design enables maximum value for a minimal investment — one that is protected due to the system's scalability.

Avtec's Scout E8 delivers a proven, reliable software dispatch solution that allows up to eight radio or telephony channels on fixed or mobile consoles. With Avtec's Scout Enterprise platform as its foundation, the Scout E8 offering is secure, scalable and redundant, as well as deliberately designed to integrate easily with leading radio, telephony and broadband technologies.

Key features

- Supports 8 active endpoints
- Uses software audio package
- Supports free seating
- Supports ResourcePro Screen Control
- Supports Scout Instant Recall Recorder (IRR)
- Connects to 11 speakers
- Supports telephony, radio, and auxiliary input/output endpoints
- Supports five patches

Avtec Scout E4 dispatch console

Avtec's full-featured four-channel dispatch solution

Powered by the same technology as Avtec's flagship Scout EX
The Avtec Scout E4 dispatch console is a smart option for smaller operations requiring fewer communications channels or for organizations seeking to expand existing Scout Enterprise systems. Built on the same technology as our flagship Scout EX solution, enhance your dispatch operations with this reliable, scalable, and full-featured offering.

Avtec's Scout E4 offering allows up to four radio or telephony channels at a time on fixed or mobile consoles. With Avtec's Scout Enterprise platform as its foundation, Scout E4 is deliberately designed to easily scale to fit your needs as well as to integrate with leading radio, telephony, and broadband technologies. These benefits deliver maximum value for a minimal investment.

Key features

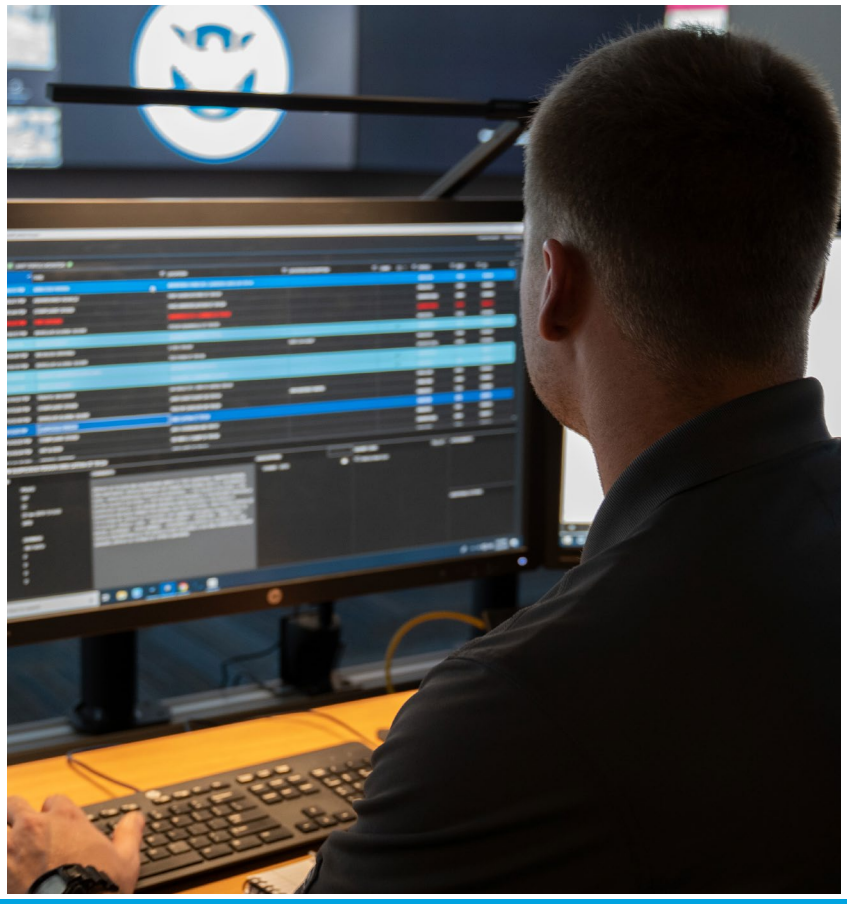
- Supports 4 active endpoints
- Uses software audio package
- Supports free seating
- Supports ResourcePro Screen Control
- Supports Scout Instant Recall Recorder (IRR)
- Connects to 11 speakers
- Supports telephony, radio, and auxiliary input/output endpoints

Avtec Scout E1 dispatch console

Avtec's compact four-channel dispatch solution

Avtec's Scout E1 console is designed for small-scale operations that require a reliable dispatching solution with a lower total cost of ownership, as well as for customers who need to extend their existing Scout Enterprise system. A versatile and durable hardware device, Scout E1 keeps your personnel poised for optimal communications.

The Scout E1 console delivers a compact dispatch solution that allows you to connect up to four radio and LTE channels. These include a variety of land mobile radio (LMR) platforms and broadband Push-to-Talk over Cellular (PoC) technologies. The hardware device not only saves desk space, but also gets your dispatch communications efforts up and running fast with minimal configuration and ease of use.



Key features

- Maximum of 12 endpoints per system
- Maximum of 8 consoles per system
- Maximum of 4 endpoints per console
- Mini VPGate voice gateway included
- Radio endpoint support for Scout 100
- Monitor and push-to-talk (PTT) functions
- Easy-press mechanical buttons
- Rotary knob for each channel's volume control
- Backlit display for easy viewing
- Includes ability to cross mute audio on other Scout E1 consoles

What freedom of integration means for you

Your dispatch communications consoles sit at the core of your organization's communications, helping connect people to the resources they need. There are many factors that play into the selection of such a system, and your existing applications and tools should never disqualify the right dispatch communications system.

That's why Avtec designed their Scout Enterprise platform with a single-source code that enables seamless integration of leading third-party its technologies. In other words, you have freedom—the freedom to connect any of your chosen communications solutions, including conventional and trunked radios, push-to-talk over cellular, SIP and analog telephony, logging recorders and more. This freedom not only simplifies your upgrade and migration strategies but also protects your previous investments.

All Scout consoles come with the following capabilities:

- MOTOTRBO™ Integration
- SMARTNET® / SmartZone™ Trunked Integration
- P25 Trunk & Conventional Ph 1 & 2 (Includes ASTRO)
- DMR / NXDN / MPT-IP / IDAS / ED-137
- Harris EDACS® / OpenSky® Systems
- Cisco Instant Connect
- AT&T Enhanced PTT
- Verizon Push-to-Talk Plus
- Wave
- Permanent Patch
- NENA Support (Headset Sharing)*
- Instant Recall Recorders (IRR) / Log Recorders / Mobility*

* Excludes Scout E1

Compatible interfaces

Your dispatch communications platform needs to offer the freedom to select the right tools for the job. Avtec's Scout console integrates with the widest variety of technologies in the dispatch industry – including legacy and next-generation radio, telephony, recording, and broadband/LTE technologies. With Avtec, you get the flexibility to build a best-of-breed solution to meet the mission-critical communications challenges of today, tomorrow, and beyond.

Scoutcare has you covered — today, and tomorrow

ScoutCare™ is Avtec's software maintenance and support program and is designed for clients who value the security and performance of their systems. As part of the subscription, ScoutCare provides for maximum system uptime with access to trained technical support specialists, among many other benefits, which enables you to focus on your core business and on managing your operations.

If you prefer to maintain your own Scout dispatch console system, Avtec includes administrator training as part of ScoutCare to provide you with the skills to service your own system. This comprehensive approach to customer engagement provides you with a reliable system and a team you can trust.

Ecosystem integrations

Connect and collaborate

Motorola Solutions Safety & Security Ecosystem

Motorola Solutions builds

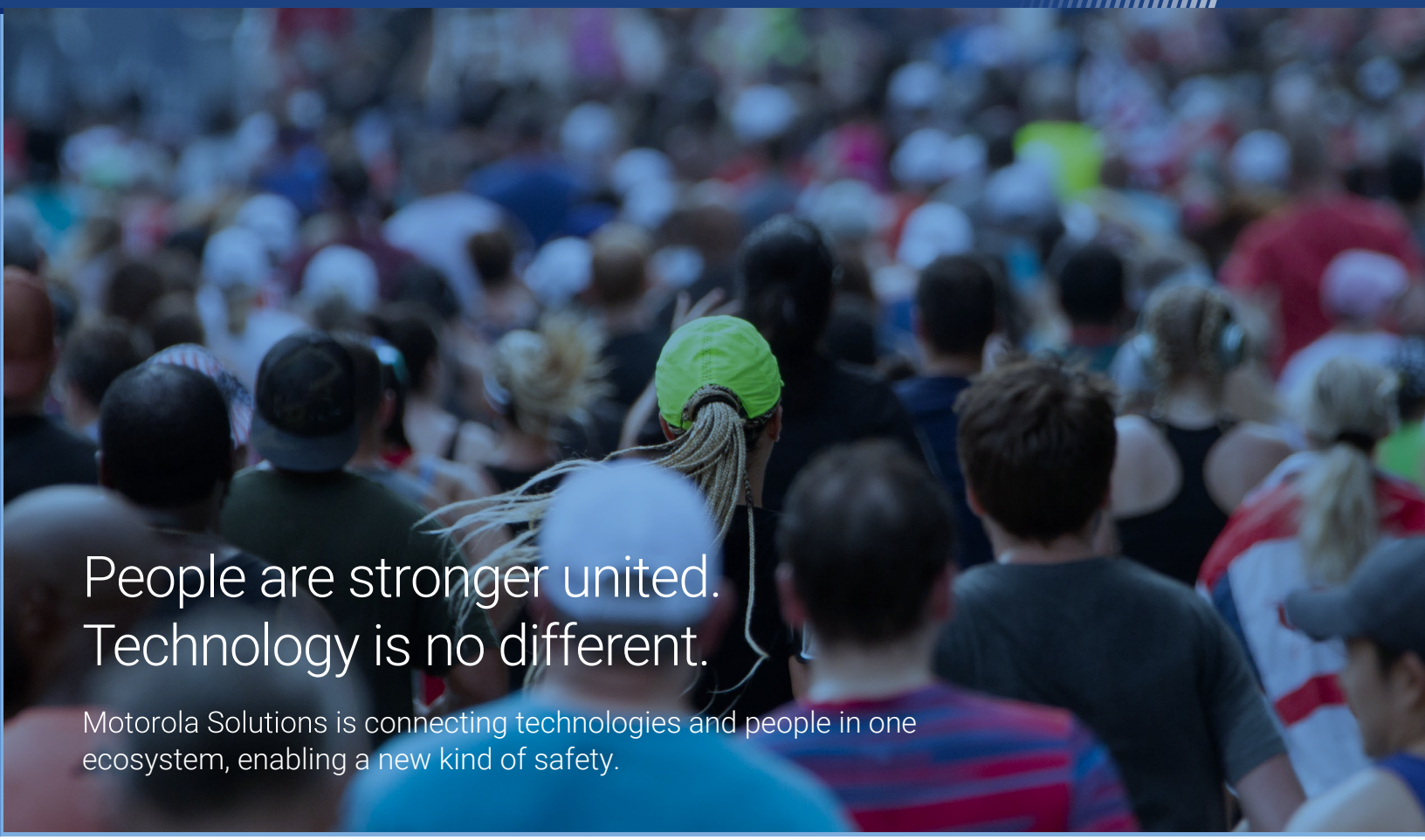
MSI builds the best possible technologies across every part of the safety and security ecosystem to help protect people, property and places.

It's critical communications that perform in the harshest conditions and are proven to help people stay connected. It's video security powered by responsibly-built AI that can focus attention when action is needed. And it's command center technologies that enable the ability to unite voice, video and data in a single command center view, to make decision-making faster and more accurate. And these technologies are all bolstered with managed and support services, providing an 'always-on' rigor to keep technology secure, optimized and current.

Motorola Solutions connects

MSI connects public safety agencies and enterprises, enabling the collaboration that's critical to connect those in need with those who can help.

Because when people can work together, we're solving for safer communities, safer schools, safer hospitals, safer businesses – safer everywhere.



People are stronger united. Technology is no different.

Motorola Solutions is connecting technologies and people in one ecosystem, enabling a new kind of safety.

Motorola Solutions Safety and Security Ecosystem supports the four operational phases of managing everyday events or emergency incidents:

Step 1: Detect

Know what's happening

- Video security
- AI-powered analytics
- Access control

Step 2: Analyze

Gather insights quickly

- AI-powered analytics
- GPS real-time location
- Command center software

Step 3: Communicate

Connect and inform the right people

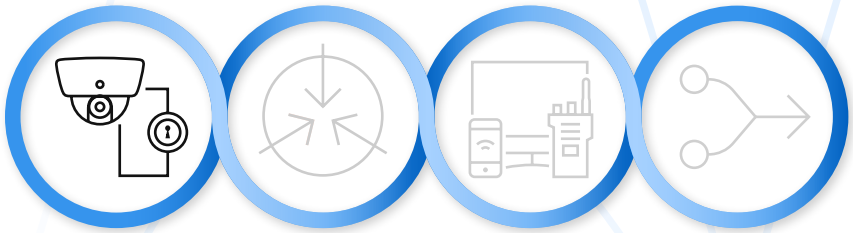
- Panic buttons & mass notifications
- Dispatch software
- Radio & broadband-enabled devices

Step 4: Manage

Coordinate and manage effectively

- Body cameras
- Video security & interoperable communications
- Records & evidence management

Detect



Know what's happening

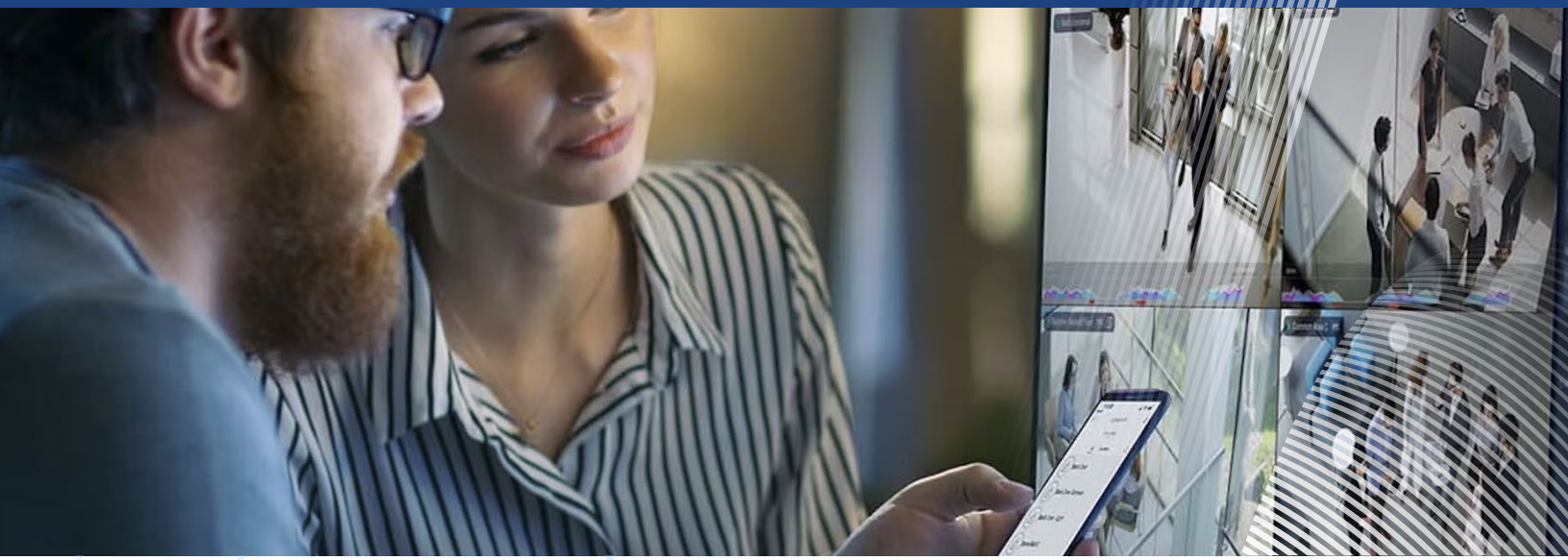
View across vast areas, identify anomalies and threats, secure entry points

Solutions

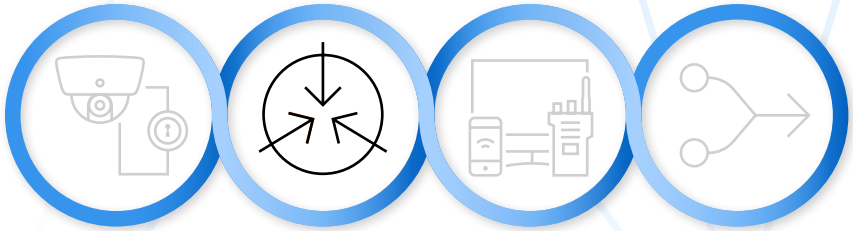
Anonymous Tipping
Video Security Cameras
Avigilon Unity Cloud Services Platform
Avigilon Alta Cloud-Based Video
License Plate Recognition
Watch List Creation & Alerting
Access Control
Orchestrate
Concealed Weapons Detection
Visible Firearm Detect

High-priority applications

Empower the public to help protect their community
Deter anti social behavior and create high visibility across campus
View live and recorded video and manage the system health
Create safer, more secure spaces with cloud-based platform
Monitor and identify authorized and unauthorized vehicles
Establish facial alert lists and awareness of known individuals
Protect ingress / egress points and tighten visitor management
Customized automation for your security technology ecosystem
Quickly identify potential threats on a person
Detect and verify handheld firearms in seconds



Analyze



Gather insights quickly

Accelerate actions, locate resources, see in a single view

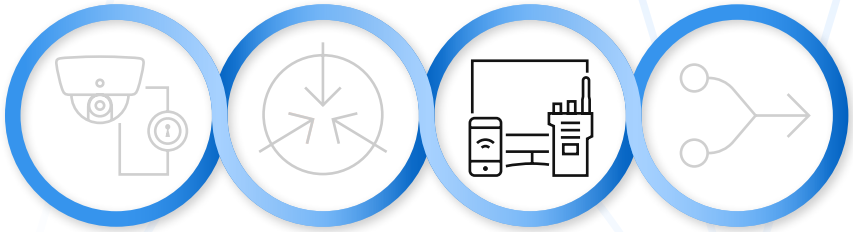
Solutions

Appearance Search
Identity Search
Unusual Motion & Activity Detection
Self-Learning Video Analytics
Focus of Attention
CommandCentral Aware Enterprise

High-priority applications

Find what you are looking for — people, objects - faster
Intelligently integrate ID badges with the power of video
Reveal anomalies that may pose security or safety risk
Flag after-hours or prohibited loitering
Highlight events that require action
Aggregate real time information about critical events

Communicate



Connect and inform the right people

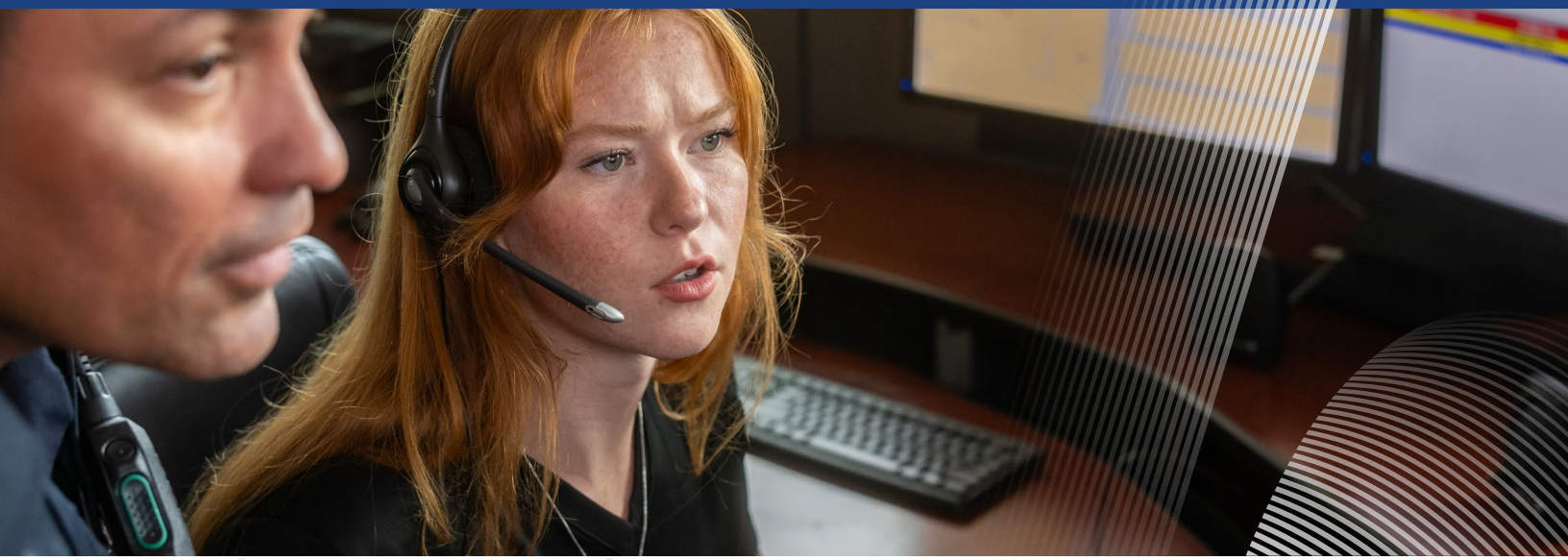
Broadcast mass notifications, centralize dispatch and media management, communicate across teams and technologies

Solutions

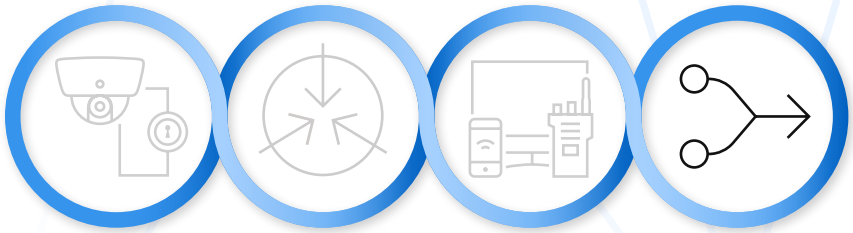
MOTOTRBO Two-Way Communications
MOTOTRBO ION
WAVE PTX: Broadband Push-to-Talk
Ally Dispatch Management
Avtec Scout Dispatch Console
Mass Notification

High-priority applications

Communicate securely & clearly across all facilities
Communication device and all-on voice and broadband data capabilities
Share voice and data without device, network or geographic boundaries
Dispatch across talkgroups and networks
Dispatch and coordinate activities of security personnel
Notify and mobilize critical groups at a moment's notice



Manage



Coordinate and manage effectively

Protect personnel, inform incident response, optimize records and evidence

Solutions

Ally Incident and Records Management
Critical Connect
CommandCentral Aware
Body-Worn Cameras
Avigilon decision management system
HALO Sensors

High-priority applications

Document and organize incidents with associated data
Easily enable and disable communication links between networks
Real-time mapping of device locations plus alerts, traffic and weather.
Deter aggression, protect the wearer and capture high-quality video evidence address critical situations with predetermined standard operating procedures Improve security for private concern areas

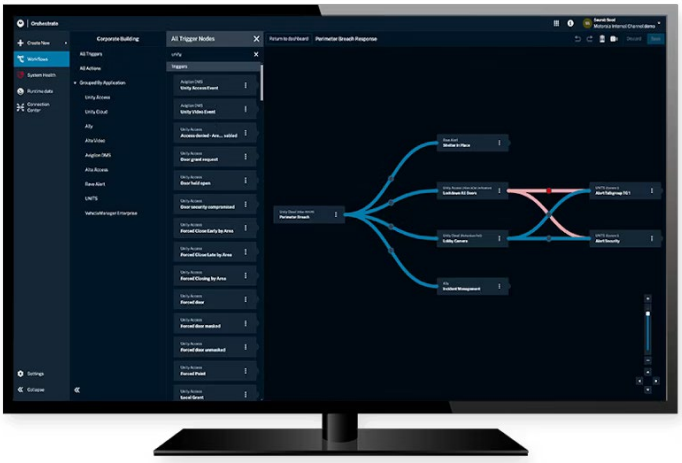
Video analytics and access control

Video analytics and access control

Immediately know what is happening across your facility without the need for manual monitoring of access control or video analytic events by receiving automatic notifications directly on your trusted radio device.

Orchestrate & Avigilon Alta video security integration

Orchestrate is a cloud-based workflow automation tool that allows users to build complex workflows with its simple drag-and-drop interface. Its rich suite of features, like workflows, system health, runtime data and connection center make it easier to design and automate workflows for every process.



Focus on what matters the most. Automate the rest.

Simple, user-friendly and cloud-based business workflow automation tool that gives you the ability to build automated workflows that control your business processes.

Rethink security and investigate smarter and faster with the Avigilon Alta cloud-based video solution. Avigilon Alta video combines AI analytics and operational insights with real-time visibility, from anywhere. Leverage AI-driven intelligence and alerts to identify potential security threats, so you can take control of the situation before it escalates.

Motorola Solutions has taken the benefits of cloud-based video security solution for enterprises one step further by connecting the technology with Orchestrate, its workflow automation tool. With this integration, your Alta video security system can trigger real-time alerts to improve situational awareness and enhance your team's productivity and safety.

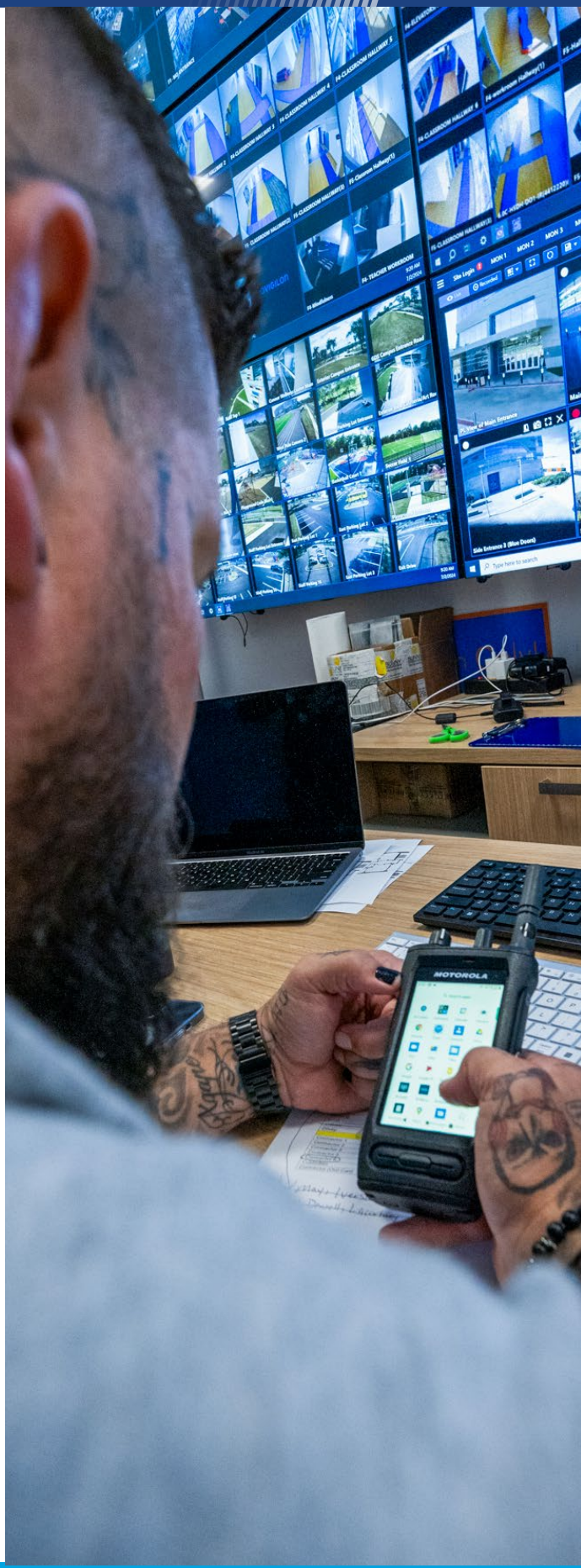
Avigilon Unity video software

The Avigilon Unity Video Mobile app extends the power of Avigilon Unity Video management software to mobile devices, enabling security professionals to efficiently monitor their systems and to quickly respond to incidents anytime and from any location that has network connectivity.

Unlock the power of Unity Video on your mobile device
Bring the power of Unity Video software with you on the go. Respond to alerts from anywhere, anytime with the user-friendly Unity Video mobile app.

- Gain a holistic view of your site alerts from the app's home screen
- Create and customize your video views through saved views
- Obtain situational awareness of your site by checking the recently viewed camera feeds
- Switch between organizations and sites that you have access to

Watch now



Body-worn cameras

Motorola Solutions Body Cameras

Extend your fixed video footprint to include a first-person perspective using body cameras. Improve worker morale, deter crime, and coordinate a more effective response with security body cameras. Intended to support your workers when dealing with aggression or confrontations daily, body-worn cameras enable you to foster trust between your team and the public by providing an unbiased independent witness. See what your team sees and watch key decisions unfold, either in real time or after the fact.

A First-Hand Perspective When It Matters Most
Everyone deserves to feel safe at work. Motorola Solutions VT100 and VB400 body cameras have been designed with the needs of security guards in mind, protecting your employees, contractors, and customers, and improving your business. They provide an integrated video solution that deters aggression, protects the wearer and captures high-quality video evidence.

Connected devices
Remaining connected enables a smarter response and better protection. Using Bluetooth and Wi-Fi, Motorola Solutions' body-worn cameras deliver a powerful mix of capabilities, from live streaming for instant response to automated recording through Bluetooth sensors and beacons.

Always ready
Whether you require shift-long recording, up to 6 months of battery stand-by, pre- and post-record or automatic activation using peer-assisted recording, the VT100 and VB400 have been designed to suit your needs.

Device and video management made easy
Managing a body-worn video program doesn't have to be hard. VideoManager EX enables you to manage your body cameras, and the footage they capture, on one streamlined user interface.

Watch now

Motorola Solutions VT100 body camera

Create a safe working environment. Motorola Solutions' VT100 body camera lets you protect healthcare, retail, and commercial staff, expedite response times and dispute false claims. Achieve evidentiary detail through its integration with Avigilon Unity Video, which displays body-worn footage alongside fixed camera feeds.

The VT100 delivers a customizable and fully integrated enterprise mobile video solution. 720p HD video. Remote alarm activation. Customer-friendly design. Seamless integration with existing CCTV.

The VT100 offers a new perspective when it matters most.

Requires minimal interaction
Simple operation and long battery standby ensure the VT100 integrates seamlessly with existing workflows. Video is secured on the VT100, to protect the integrity of your footage and support data protection compliance.

Complements existing CCTV
The VT100 integrates seamlessly with existing CCTV infrastructure. Wi-Fi streaming combines live body-worn video with fixed security camera footage. Delivering improved visibility to centralize control teams improves situational awareness for a smarter response.

Customer-friendly appearance
The lightweight VT100 is designed for customer-facing teams. Customize the front tag with your logo and brand colors to make the VT100 an integral part of your staff uniform.

Key features

- Lightweight for maximum comfort
- Full HD recording
- Six-month stand-by battery-life
- Wi-Fi® streaming capabilities
- VMS integration
- Up to 3 hours continuous recording
- 16GB recording storage capacity

Motorola Solutions V200 body camera

The V200 body camera is designed with recording and escalation button(s) to activate GoLive Audio, a safety feature that ensures employees have immediate access to a supervisor or security team at a moment's notice while recording every detail from start to finish.

Meet your new bodyguard
Designed with customer feedback, the V200 serves as a guardian with an intuitive design and escalation options for immediate support to your customer-facing employees.

Intuitively simple and sophisticated.
Remarkably straightforward and compact, the V200 features dedicated buttons and a top display for quickly viewing status of battery life, WiFi and supervisor or security agent connectivity.

Stay supported. Stay connected.
Improve real-time response by viewing livestream video via WiFi from your employee's camera for a firsthand perspective. Activate GoLive audio when in need of assistance.

Shift with ease. From start to finish.
Streamline body camera allocation, charging and video offloading with an efficient and simple process.

Step into work with comfort and style.
Choose from a range of mounting accessories for a secure and comfortable fit throughout the day. And personalize the camera with a customizable label to meet your company's brand guidelines.

Key features

- Full-HD 1080p Video Recording.
- 130° Wide Field of View.
- Durable, Rugged Design.
- Extended Battery Life.
- Integrated Connectivity.
- Secure Data Encryption.
- One-Touch Record Button.
- Pre-Event and Post-Event Recording.

Watch now

Motorola Solutions VB400 body camera

Intended to support your workers when dealing with aggression or confrontations on a daily basis, the VB400 enables you to foster trust between your team and the public by providing an unbiased independent witness. See what your team sees and watch key decisions unfold, either in real time or after the fact.

Take control of the situation
Your workers have enough to think about already; they don't always have time to focus on operating their body-worn cameras when an event starts unfolding. Instead, you can adapt VB400 behavior to the different roles and responsibilities within your team, and enable pre- and post-record, so it's easy for them to get that all-important video evidence.

The VB400 seamlessly fits around your existing workflows. All configuration and maintenance can be done ahead of time with our easy-to-use backend software, VideoManager — so your workers can grab their cameras and get to work with minimal training and disruption.

In the field, features including dual microphones, a wide-angle lens and intuitive buttons ensure that every interaction can be captured in high definition from start to finish.

All footage is stored and encrypted on the VB400 until it is redocked, at which point it is offloaded securely and automatically.

Key features

- Full HD recording in 1080p
- Long battery life for full shift recording
- Live streaming
- Bluetooth® and Wi-Fi® connectivity
- Rugged design
- GPS helps you keep eyes on your team
- VMS integration

Watch now

Motorola Solutions Body-worn Camera VMS

Optimize cameras for every user

VideoManager: Easy, flexible device and footage handling

You and your team are busy. VideoManager EX is designed for ultimate usability, so you can administer your body cameras and the videos they capture without excessive training and maintenance. Whether you want to livestream footage or simply store it for later – VideoManager EX minimizes time at the computer and maximizes your hardware investment instead.

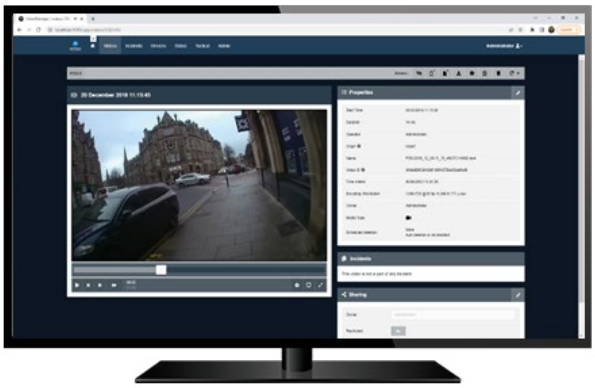
Running a body camera program should be easy. VideoManager EX makes it simple to administer VB400 and VT100 body cameras — and the footage they capture — so you can focus on what matters.

Body camera management – made easy
Whether you're running a small business, hotel or hospital, we know your team is busy. VideoManager EX makes it simpler than ever to quickly configure your body cameras on-premises or in the cloud, so your team can focus on their jobs without distraction.

Easy to deploy, even easier to use
Get up and running quickly with a plug-and-play model; choose an on-premises installation or a cloud deployment managed by us.

Personalize the experience for your team
Fit your body cameras' behavior to your staff's needs, and only enable the backend functionality which is relevant to your team.

Make your video work for you
However you want to use your footage, we have all the tools you need to manage it – including redaction and sharing — in one convenient user interface.



WAVE PTX™

What is WAVE PTX?

Motorola Solutions WAVE PTX™ is a network-independent broadband push-to-talk (PTT) subscription service that instantly connects your team across different devices, networks, and locations at the push of a button.

Nationwide service
Seamlessly connect your MOTOTBO radio system to WAVE PTX with a direct wireline connection and reach more team members over a wider service area.

TAKE PTT further communicate without boundaries
Eliminate barriers between devices, networks and locations, and let everyone be part of the conversation.

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

Cloud-based
No servers to buy, install or maintain so you can focus on your business.

Explore how the WAVE™ PTX connects your enterprise across the country.

Combining the broad coverage of a nationwide cellular network with the ease of push-to-talk (PTT), WAVE PTX devices, two-way radios, WAVE PTX App, and WAVE PTX Dispatch get your team connected fast.

Accelerate the flow of information within your organization and increase productivity with secure, affordable TLK radios with nationwide push-to-talk.

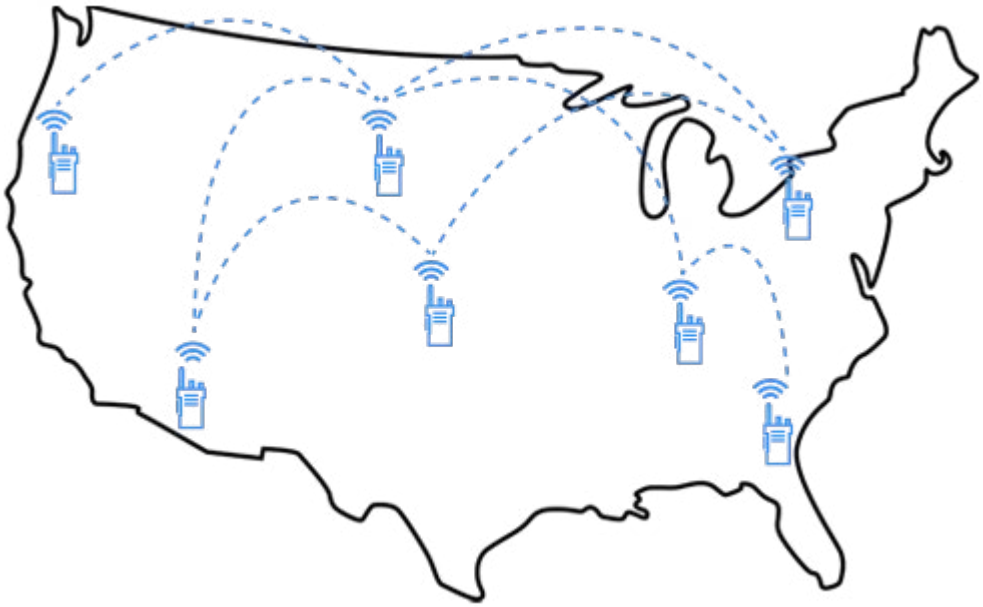
Rapid, reliable deployment. Use nationwide.

Nationwide devices and radios with rapid, reliable deployment
Combining the broad coverage of a nationwide cellular network with the ease of push-to-talk (PTT), WAVE devices and two-way radios and devices get your team connected fast.

Instant connection across any device, from any location
We live in an always-on, instant-connection world where an answer is just a text or call away. Many workers still need a purpose-built device that includes the communication tools they require while eliminating everything they don't. They need instant voice communication — whether that's within a building, on the road, or across the country — without complex interfaces and the distractions of other devices.

With the WAVE devices, radios, MOTOTRBO™ Ion, and the EVOLVE LTE, your employees can stay connected anywhere in the world. At the single push of a button, they have direct access to colleagues with crisp, clear audio, regardless of the device or network they use. All without the need to build and maintain radio infrastructure.

WAVE PTX, TLK Series radios, and the EVOLVE LTE handheld are an integrated communications solution that allows all workers to connect at the pace of today's business expectations – across any device, from any location, instantly.



Turn your phone into a PTT handset and get instant communication at the touch of a button

"Bring your own device" PTT services. With a customer-provided user device, the WAVE PTX™ app provides carrier-independent broadband PTT service and an extensive set of business-critical PTT-based features to keep mission-essential users informed and connected.

Single app. Two modes. Multiple functions.
Get all your group communication needs in one easy-to-use app for Android and iOS phones and tablets.

Multimedia messaging
Increase the speed and clarity of information via text, photo, video, or file attachment.

Location and mapping
Track your team on a map, share your location, find an address, or set a meeting place.

PTT Radio Standard

Instantly connect with a group or individual, send a one-way message to up to 500 users, group and private PTT, multimedia communication, text a message, send a photo, share a video, location sharing and mapping, view talkgroup members on a map.

Select one of two client modes: PTT Radio to emulate the experience of a conventional two-way radio, or Standard Mode, which offers full client functionality.

Key features

- Group and private PTT calls
- Real-time presence
- Do not disturb
- Priority talkgroup scan
- Background calling
- Voice message fallback
- Text messaging
- Video, photo, and file sharing
- Location, mapping, and tracking
- Geofencing

Get more done faster with WAVE PTX™
When it comes to speed, nothing is faster than push-to-talk, and there's no faster way to get started than with a WAVE PTX cloud-based subscription. Your team can be up and running in less than an hour and you get predictable costs without long-term commitments.

Centralize communication anywhere

Simplify day-to-day operations with WAVE PTX Dispatch. Log in from any internet connection and get access to all the communication tools you need to manage your resources and coordinate an effective operation. Regardless of location, with WAVE PTX Dispatch you're just a click away.

With WAVE PTX Dispatch you can use a web browser to access your MOTOTRBO radio channels.

Web-based dispatching
Login from any PC and get the latest features with no software to install or maintain.

Multimedia communication
Share details with an individual or your entire team via text, photo, and video or file attachment.

Location and mapping
Track your mobile teams on a map and efficiently dispatch based on real-time location.

Set up operations anywhere

WAVE PTX™ dispatch capabilities ensure that from any internet-enabled location, dispatchers can effectively manage day-to-day operations, with easy access to talkgroup scanning, multimedia communication, and location mapping and tracking. WAVE Dispatch also allows for call recording and call log tracking to improve situational awareness.

Share the details
When the details are important, ensure your team has all the information it needs. With integrated messaging you can send text, photos, video, and files to groups and individuals in a familiar message thread format. See the location of your team, search for an address or point of interest, and improve coordination and planning.

Locate and see users on a map, electable map views, automatic and on-demand location updates, set-up geofencing, find an address or point of interest, location history and replay, and in-map communication.

Voice Dispatching

- Monitor up to 20 talkgroups.
- One-to-one, group and broadcast PTT
- Presence (Available, Do Not Disturb, Offline)
- Talkgroup scanning with priority
- Voice message fall back
- Call logging and recording
- Supervisory override
- Alerts

Integrated Messaging

- Exchange multimedia information.
- Text
- Photos (GIF, JPEG, PNG)
- Videos (MPEG-4)
- Audio files (AAC, MP3)
- Documents (PDF)
- Location data

Location and Mapping

- Locate and see members on a map.
- Selectable map views
- Automatic and on-demand location updates
- Find an address or point of interest
- Location history and replay
- In-map communication
- Geofencing

WAVE PTX
LMR interoperability

Motorola Solutions offers LMR Interoperability that lets you to connect MOTOTRBO Push-To-Talk radio users quickly and easily with WAVE PTX users.

Get ready to expand your team communication reach, connect seamlessly and quickly across LMR and Wave PTX users without hefty upfront infrastructure costs.

Is your radio network holding you back from evolving your communication needs?

Extend two-way radio to broadband. Unify communications across radio and broadband users. Eliminate communication barriers and get seamless talkgroup communication between radio and broadband PTT users by connecting WAVE PTX™ to your MOTOTRBO™ or other land mobile radio (LMR) network.

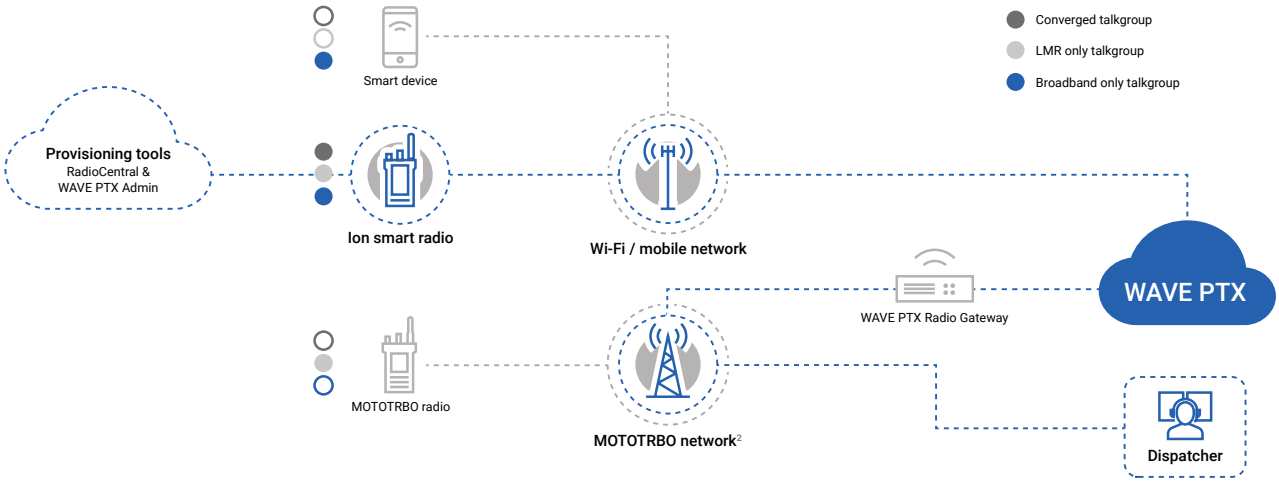
When an incident happens, teams need to focus on the job at hand, not on their equipment. The Motorola Solutions technology ecosystem combines our products, automating operations to boost worker safety, effectiveness, and productivity.

- Connect a Land Mobile Radio (LMR) system to WAVE PTX™, allowing calls between networks.
- Connected to MOTOTRBO™ two-way radio networks.
- Extend PTT communication outside the coverage of the radio system.
- Expand communications to those who cannot or will not carry a two-way radio.
- Increase flexibility and choice to select the best technology and device for each user.

WAVE PTX SafeGuard package

Add the SafeGuard package to your existing WAVE PTX mobile applications, dispatch applications, TLK devices and radios to gain MCPTT features and LMR Interoperability that help enhance user safety, improve situational awareness, increase operational efficiency, and connect MOTOTRBO and non-MOTOTRBO push-to-talk radio users quickly and easily with WAVE PTX users.

MOTOTRBO Ion broadband-LMR integration



Use cases

Nationwide coverage

When users need to roam between sites, for example, a maintenance technician driving between two manufacturing plants, or hotel staff traveling between properties, Seamless Voice Handover allows them to connect back to their home network.

Dead spot migration

While MOTOTRBO systems are designed to provide the best coverage possible, there is always a possibility of a "dead spot" — for instance deep inside large buildings, including factories, schools and hospitals. With Seamless Voice Handover, users can leverage broadband to maintain coverage when roaming inside larger buildings, or new buildings where radio infrastructure has not been implemented, but Wi-Fi or LTE coverage exists.

Seamless connectivity

Equipped with future-proofed data and voice connectivity, and access to an expanding technology and software ecosystem, Evolve is fready to grow alongside your organization.

Broadband data

As your organization's data needs and network capabilities expand, Evolve is ready for your transition to next-generation networks as it has support for dual SIM cards and is compatible with 3G, 4G, Wi-Fi and CBRS[2]. Users can also create a local Wi-Fi hotspot with Evolve for Wi-Fi-enabled devices, such as a tablet. This enables devices tethered to Evolve's Wi-Fi Access Point to send and receive information over LTE.

Intuitive PTT voice communication

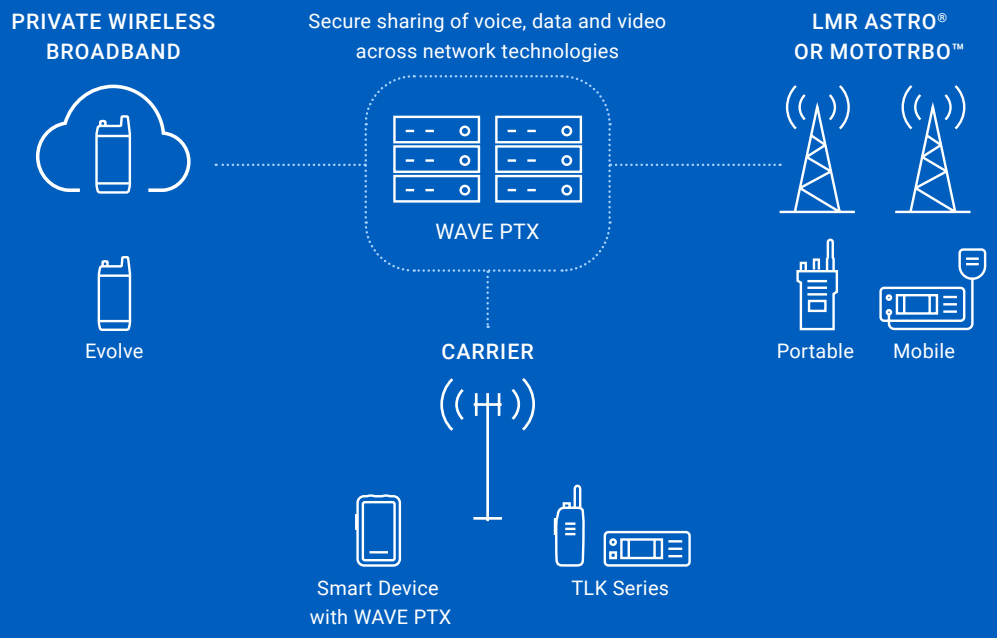
Give your team quick, easy, instant communications that lets them keep their eyes on their work. With its dedicated push-to-talk button, Evolve delivers the intuitive voice communications your team relies on. With WAVE PTX, our broadband PTT service, Evolve can provide seamless push-to-talk communications between users across different devices, networks and locations.

Motorola Solutions Safety & Security Ecosystem

Connect into safety and security with Motorola Solutions' growing technology and software solution set, including video security and analytics, location services, and productivity and incident management software. Thanks to its processing power, large display and rich data connectivity, your Evolve device will have you poised to deploy advanced technology as your needs grow, while its rugged design and outstanding voice capabilities ensure that you never compromise your most critical communications.

WAVE PTX

Connect your team with greater speed and efficiency using WAVE PTX, a push-to-talk service that has no boundaries. WAVE PTX is a subscription-based group communication service that instantly connects your team across different devices, networks, and locations.



WAVE PTX Wi-Fi Backup

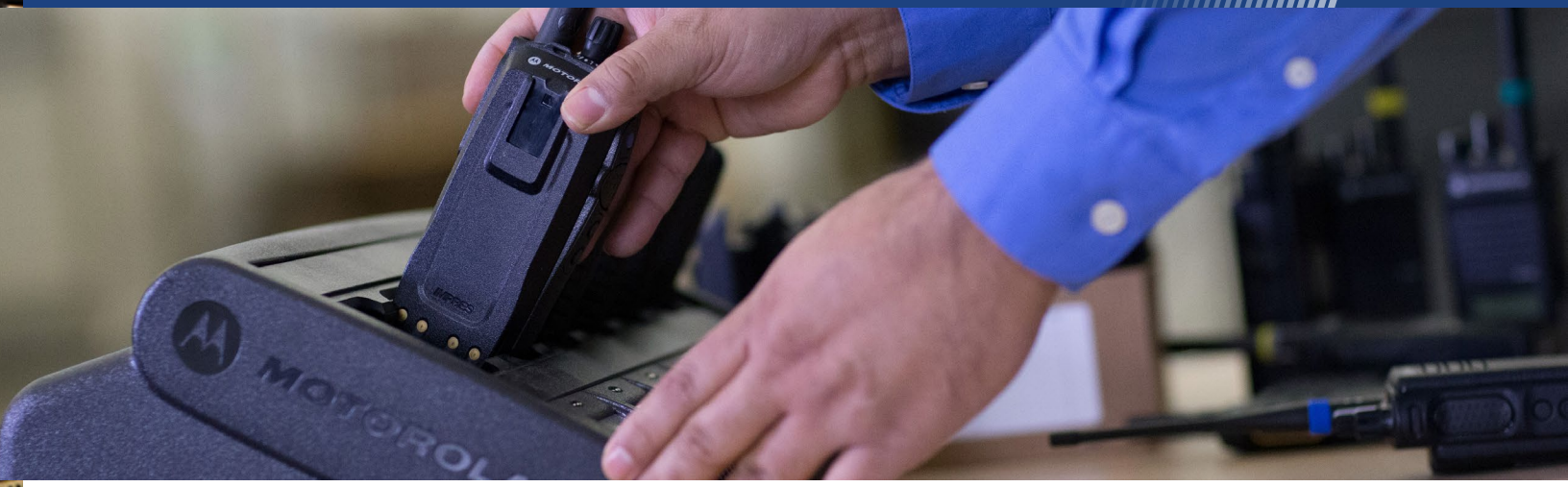
Stay connected over Wi-Fi even when out of radio coverage area
Expand your MOTOTRBO digital radio system, or enable a new one, with a cost-effective option for overcoming radio signal barriers — such as in basements, older construction, or buildings in low-lying areas — that can prevent communication.

Expand your MOTOTRBO digital radio system, or enable a new one, with a cost-effective option for overcoming radio signal barriers — such as in basements, older construction, or buildings in low-lying areas — that can prevent communication.

With the Wi-Fi Backup feature, powered by MSI's WAVE group communications service, your team members can stay connected using your existing Wi-Fi network when their radio is out of its coverage range.

WAVE PTX Wi-Fi Backup enables Motorola Solutions MOTOTRBO radios to be programmed to switch between radio mode and WAVE PTX mode to connect to the internet via your Wi-Fi network.

Services



Essential services for new MOTOTRBO™ two-way radios & infrastructure

Support when you need it
Stay ahead of the game: 5 years of software and repair

The advanced capabilities of your MOTOTRBO platform ensures communications are safe, clear and reliable across your enterprise. Keep your two-way radios and infrastructure up to date and secure with Essential Software and Software/Repair for MOTOTRBO.

Essential Software and Software/Repair provides access to Premium software features, software updates and hardware repair. Five years of coverage (2 years warranty plus 3 additional years) allows you to stay ahead of the game with your two-way radios and infrastructure. Be confident in the optimal performance of your two-way radios and infrastructure, ensuring maximum productivity.

Managing your two-way radios and infrastructure

The core offers
Choose from two options of coverage:

- **Essential software**
- **Essential software/repair**

Essential software
Always stay ahead of the game with Essential Software for MOTOTRBO two-way radios and infrastructure. Enhance communication by taking advantage of MOTOTRBO Premium software features and software updates.

The Essential Software package includes Premium features that were normally sold ala carte. Moreover, ensure continuous security, performance and enhanced functionality of your two-way radios and infrastructure by getting access to MOTOTRBO certified and tested release software updates and upgrades.

Regular release software updates protect and enhance operations to extend the lifespan of your MOTOTRBO infrastructure. Invest in planned updates to minimize unforeseen costs and service disruptions. Essential Software protects your investments through access to new features as they are developed and expands your capabilities beyond voice for increased productivity, reliability and safety.

Premium software features

Safety & security	Audio	Efficency & Productivity	Connectivity	Systems
Enhanced privacy	SINC+Noise cancellation	Text to speech	Bluetooth audio	Digital voting
Transmit interrupt	Mute mode	Multi-button PTT	Bluetooth data	Dynamic mixed mode
Man down	Rx audio leveling	Enhanced GPS		IP repeater programming
Transmit inhibit				
Indoor location				

Devices premium features Infrastructure premium features

Essential software/repair

Our two-way radios and infrastructure are built for superior performance. With expert hardware repair, all radios and infrastructure are returned to factory specifications. Service centers are certified to comply with ISO9001 and TL9000. All Hardware Repairs are expedited back to you so you can be productive and keep your operations running smoothly.

Essentail software and software/repair services for new MOTOTRBO two-way radios

AT-A-GLANCE

New product sales	Software	Software/repair
Premium software features	5 years	5 years
Software maintenance & updates	5 years (warranty + 3 years)	5 years (warranty + 3 years)
Hardware repair	2 years (warranty)	5 years (warranty + 3 years)
Priority repair	No	5 years

Note: Some devices may have a warranty period different than 2 years: refer to the warranty policy

Essential software/repair services for new MOTOTRBO infrastructure

AT-A-GLANCE

New products sales	Software/repair
Premium software features	5 years
Software maintenance & updates	5 years (warranty + 3 years)
Hardware repair	5 years (warranty + 3 years)
Priority repair	5 years

Note: Connect Plus Controllers, Gateways, and System Licenses are not eligible

Maximizing two-way radio and infrastructure performance

The reward

Essential software and software/repair s ervices for MOTOTRBO two-way radios and infrastructure will provide you with a reliable approach to protect your investment through expanded software capabilities and improved reliability and security

This enables you to:

- Protect your investment through access to new software features as they are developed.
- Access premium features to make your workforce more efficient and current with innovation.
- Run new functionality, often without any additional hardware investment.
- Enhance your availability and stability of infrastructure and two-way radios.
- Achieve peace of mind on your hardware investment with hardware repair services.
- Extend the life of your infrastructure and devices.

Case studies

Saranac Community Schools

Safer schools within reach for any size district

Saranac Community Schools is a small school district covering about 70 square miles, located between Grand Rapids and Lansing, in central Michigan. The predominantly rural district houses four buildings, including one elementary school, one middle-high school, and two district buildings. Together, the district educates approximately 850 students per year and employs 125 personnel, including teachers, administrators and other staff.

Customer
Saranac Community Schools

Industry
Education

Solutions

- Safer Schools Ecosystem
- Avigilon H4 Camera Platform
- Avigilon Access Control Manager
- MOTOTRBO Digital Radios
  - Ion
  - SL300
  - XPR3500
  - XPR5350
- Radio Alert
- Orchestrate

Benefits

- Integrated communication system with real-time alerts that operates at the speed of today's threats
- Funding and personalized support were readily accessible, regardless of the school district's size

Challenges

Threat mitigation requires an integrated security system with real-time threat detection

Saranac Community Schools, like most smaller school systems, did the best it could with the funding and staffing available but was burdened with outdated and limited security technology.

They made due with a few plug-in IP cameras, a radio in each building and it telephones in classrooms. Yet, camera coverage was limited to just a few locations and required active monitoring from staff, who were already stretched thin.

"When you're talking about security, there's so many ways you have to coordinate when it's manual," says Jason Smith, Superintendent and Transportation Director for Saranac Community Schools. "With an integrated system, if you can monitor and trigger an action automatically, it would save time and I wouldn't have to worry about it."

That's why Saranac officials knew they wanted an intergrated system that would include video security, radio alerts and even access control systems. If they could leverage their previous security investments and add new features like AI, all the better.

A clear need to upgrade, an unclear path to get started

With school shootings and other violence rising in Michigan and throughout the country, Saranac knew it couldn't wait any longer, it had to make substantial changes to its security systems.

"We didn't have much security, we were very, very limited," said Smith. "But in the last few years, the issue of school safety hit closer to home and the need for security upgrades became more apparent. We realized we couldn't wait, we had to act."

Yet, Saranac, like many districts its size, assumed the latest security technology was out of reach for a smaller school system.

"Both funding and staffing were issues," said Superintendent Smith. "Even once we knew what we needed, the can kept getting kicked down the road, because no one had the time or expertise to figure how we could pay for it and the thought was we probably couldn't afford it anyway."

When Saranac personnel began to search for options, they knew they wanted a company with a local presence, so that they could quickly receive in-person support, instead of a phone call with someone potentially sitting multiple states away.

Benefits

Integrated communication system with real-time alerts that operates at the speed of today's threats

Today, security at Saranac Community Schools has been completely transformed. With about 75% of indoor and outdoor spaces covered by video, Saranac staff have a clear view of what's happening around campus and inside buildings. Now, with advanced AI and analytics, staff can monitor more places at once. Plus, with Avigilon ACC, Saranac can follow a person or object of interest from any building and across campus.

"We love that we can upload a picture or use a screenshot, then search for and follow a person," explained Smith. "We've used it to aid law enforcement, helping them find a particular person and it works great to track vehicles through campus and see movement patterns. We were even able to automatically find an abandoned vehcile on campus, which was incredible."

Saranac staff were also impressed with the clarity and picture quality of the cameras.

"The cameras' High Dynamic Range has been a big difference," said Smith. "We have hallways where one side is all windows and when there's a sunny day the cameras can balance the light really well, the clarity is amazing."

With tight integration between Avigilon cameras, ACC software and MOTOTRBO Ion radios, Saranac staff now receive automatic alerts directly on their MOTOTRBO Ion radios when something needs attention.

"We've set up different alarms that alert us when something is out of the ordinary," said Smith. "For instance, if it typically takes someone five minutes to walk from one part of the building to another and if they linger for longer, we'll get an alert."

Plus, Saranac never misses an alert, since MOTOTRBO Ion radios can run on both Wi-Fi and LTE networks. So, coverage is uninterrupted, even if the school's internet goes down.

Smith also said he appreciated the ability to integrate their existing older, non-Motorola IP cameras into the system. This was especially important to Saranac's board of directors, who wanted to ensure that previous investments wouldn't go to waste.

With the success of the system, Saranac is already planning for possible future expansions, such as adding Avigilon Access Control for automatic alerts and video coverage when doors are left open. Smith is also considering adding additional sensors to alert for vaping on school property, as well as flood and chemical sensors.

School safety grants & assistance programs

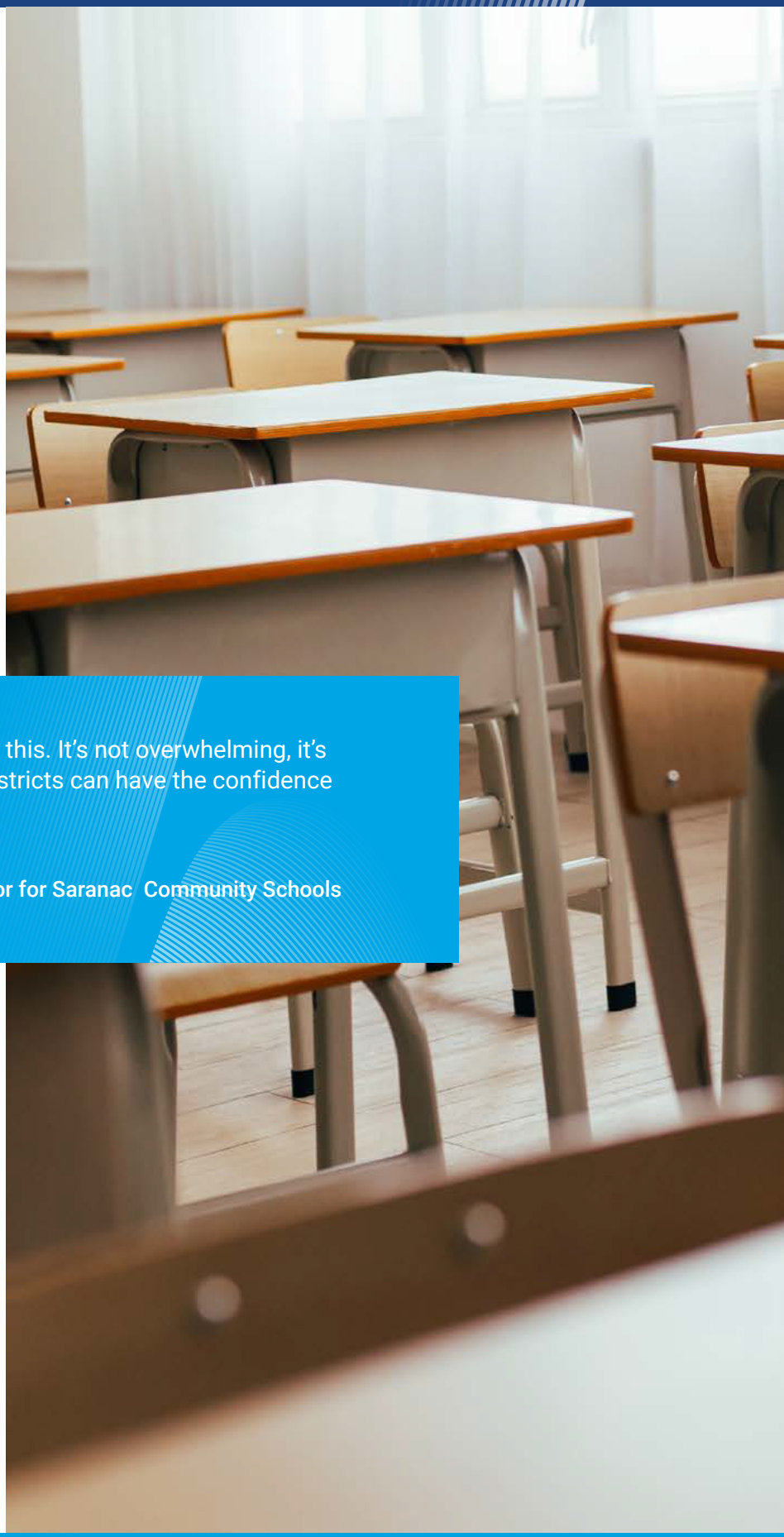
Receive free grant assistance from experts in the education field

- **Free customized grant help**
  Tap into free customized grant help and assistance for your communications projects
- **Grant experts review**
  Rely on grant experts to help review and guide your grant applications
- **Grant research**
  Receive grant alerts for upcoming funding opportunities

Even as a smaller school system, funding and personalized support were readily accessible

Saranac's integrated security system was easier to attain than many first anticipated. The school system applied for and received a combination of state and federal funding from ESSER III and Section 97 of the Michigan state budget to help purchase the new camera and radio technology.

"This really speaks to the fact that even a small rural school system can make some wise investments to dramatically increase security," said Smith. "And the ability to keep what you already invested in and then add to it as budget and circumstances allow, is so critical."



> "It's possible for any school district to do this. It's not overwhelming, it's doable. If we can do this, other school districts can have the confidence that they can do it too."
>
> – **Jason Smith,**
> **Superintendent and Transportation Director for Saranac Community Schools**

Another important factor in Saranac's selection was having a certified Motorola Solutions channel partner to help guide their purchasing and installation decisions. Based right in Saranac, Michigan, the company provided personalized service.

The leadership of a Motorola Solutions partner was so important to Saranac. "They helped us decide on the best options to implement now and how we should expand in the future. We now have one local company to call for support for the entire system, not ten different calls to locations multiple states or countries away" said Smith.

A complete end-to-end solution

Be safer, more efficient and more productive with the powerful digital performance and advanced capabilities of MOTOTRBO™.

Discover the ultimate in seamless operations with a total MOTOTRBO solution:

- Radios
- Accessories
- Systems
- Infrastructure
- Applications
- Consoles & management
- Services

Having MOTOTRBO at the heart of your organization will help you achieve new levels of productivity, safety and efficiency. The extensive portfolio means you can custom-build your complete solution, including radios, infrastructure, systems, accessories, applications and services designed around what you need today and in the future.

No matter how large or small your enterprise, MOTOTRBO offers a wide range of systems specifically designed for your business – for the days ahead and the years beyond. You get the best of two-way radio with digital technology and enjoy integrated voice and data communication, increased capacity, enhanced features and exceptional voice quality, across the city and around the globe.

Scan to learn more
Motorola Solutions safety and security ecosystem of technologies

RADIO RESOURCE INC.™

1-800-872-3884

Located in Wheat Ridge, CO

Ecosystem Solutions Partner
MOTOROLA SOLUTIONS

MOTOROLA SOLUTIONS
Channel Partner

© Opt-In Wireless, Inc. 2025
MOTOROLA, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. © 2025 Motorola Solutions, Inc. All rights reserved.