



# MOTOTRBO™ IMPROVE PERFORMANCE IN YOUR CREWS. AND YOUR COMMUNITY.

## PROFESSIONAL DIGITAL TWO-WAY RADIO SYSTEM



### MOTOTRBO BENEFITS

- Reach your workforce anywhere they go with voice and data
- Improve efficiency and safety on the job
- Keep connected easily and seamlessly
- Improve response time and customer service
- Maximize your system investment and infrastructure
- Enhance value and reduce operating costs

Whether you're a streets and sanitation worker on a snowplow or a parks and recreation crew on a maintenance call, citizens expect a certain level of performance. They want timely response and quick resolutions. How do you meet their expectations and manage an extensive field force throughout your community?

From centralized dispatch to seasonal crews, instant dispatch and unbroken communication are essential to managing your fleet, so you need a system that is 24/7/365 reliable wherever they go. A system so efficient and easy to use, it can increase safety and reduce operating costs, too.

### THE CHALLENGE

**Serving the public with critical services such as mass transit, public works, streets and sanitation, and parks and recreation have become even more challenging for local government today.**

Despite budget cuts, citizens and businesses still expect the same commitment and quality.

How do you increase your services to the community as budgets shrink and costs rise? How do you keep connected with work teams spread throughout the community while keeping them safe?

### THE SOLUTION

**Versatile and powerful, MOTOTRBO is the ideal solution.**

Our professional digital communication system combines the best of two-way radio functionality with the latest digital technology. It integrates voice and data seamlessly, offers enhanced features that are easy to use and delivers twice the capacity of analog systems to meet your growing communication needs. With exceptional voice quality and long battery life, MOTOTRBO keeps your mobile workers connected when communication is a must.

Our new MOTOTRBO XPR™ 7000 and XPR 3000 Series radios offer a smart new feature in digital mode – Intelligent Audio – that adjusts radio volume to fit an environment's noise level. This means the radio automatically boosts the volume level when the streets and sanitation crew is making roadway repairs in a busy metro area, then automatically reduces the volume when the noise level from equipment and cars is not present.

# KEEP THEM IN TOUCH. IN THE FIELD AND BEHIND THE WHEEL.

Your employees are active across the community – maintaining infrastructure, reading water meters, repairing potholes and responding to customer requests. Fortunately, MOTOTRBO digital two-way radios and accessories make it possible for your supervisors and dispatchers to keep in touch with your entire mobile workforce, the moment they need to. Whether texting an update to a maintenance crew or rerouting buses to handle an overflow crowd, MOTOTRBO helps you deliver more services, more effectively, to more citizens.

## DIRECTORS AND SUPERVISORS CAN STREAMLINE PROCESSES. AND STRENGTHEN PRODUCTIVITY.

### Communicate clearly with exceptional audio.

Using the latest digital technology, MOTOTRBO provides clearer and crisper voice communications over a wider area than analog radios could ever do. Unlike analog, signal strength doesn't drop off with distance or cause distracting static. MOTOTRBO digital radios deliver both voice and data with greater accuracy and virtually no loss throughout the coverage area. The result is clear communications with your workers no matter where they are in the field.

### Prioritize communication immediately.

Emergencies do happen and you need to communicate with your workers when they do. MOTOTRBO's transmit interrupt suite – with voice interrupt, emergency voice interrupt and data over voice interrupt – enables you to prioritize critical communication the moment you need it.

### Share information quickly, easily and seamlessly.

Whether you need to send directions to the next work site or receive notification a job is complete, MOTOTRBO's text messaging feature enables communication between radios and dispatch systems, between radios and email-addressable devices, and to remote PC clients attached to radios.

### Keep connected with your workers in the field.

Be confident your agency is staying productive and your workers are safe. With the MIP 5000 radio console, you can have centralized dispatch capability for visibility and access to your mobile work teams no matter where their job takes them. MOTOTRBO's integrated GPS gives you easy, immediate access to track your people and your assets.

### Extend coverage and expand capacity.

Meet your communication needs today and in the future with a variety of MOTOTRBO solutions:

- **IP Site Connect** uses a standard IP network to extend the voice and data capabilities of MOTOTRBO. You can link up to 15 sites to create a continuous network – so no matter where your work crews are on the road or how remote the environment, they are rapidly and reliably connected. Or you can link up to 15 sites for communication at geographically-dispersed locations or enhance coverage at a single site with physical barriers.
- **Capacity Plus** is the single site digital trunking solution that maximizes the capacity of your MOTOTRBO system. Use it to enable a high volume of voice and data communication for over a thousand users at a single site, without adding new frequencies.
- **Linked Capacity Plus** is an entry level, multisite digital trunking system configuration for the MOTOTRBO platform. It leverages the high capacity of Capacity Plus, and the wide area coverage capabilities of IP Site Connect to keep your staff at various locations connected with an affordable high capacity, wide area trunking solution.
- **Connect Plus** is the scalable, multi-site digital trunking solution that helps keep your entire workforce connected – up to 2900 crews per site. So whether they're on road repair, snow removal, waste removal or park maintenance, they can communicate together. At the same time, you can link multiple sites, ideal for agencies with large work teams that typically operate across a wide area.

With our high capacity MOTOTRBO system, calls can be queued during busy times until an open channel is available, important users can be assigned priority status when the system is in high demand, and a wire-line console can be used for centralized dispatch. The dynamic site roaming capability lets your people move from site to site without having to manually change channels. So they stay focused on the job and stay connected.

**"The real power of this solution is that it improves work crew safety. We have very steep terrain and in a blizzard, trucks could slide off into a ravine and be quickly covered up. With MOTOTRBO sending data through the GPS, we will see when that truck stops moving. We'll know where that guy went off the road and we can send someone to that exact location."**

Erik Parker, GIS Director  
Holmes County, Ohio



**APPLICATION BRIEF**  
PUBLIC SERVICE

**Cut fuel costs.**

Traffic congestion not only delays work crews, it increases fuel costs. With MOTOTRBO, dispatchers can monitor traffic conditions and transmit alternate routes to employees in the field. They can notify drivers of last-minute changes in schedules, redirect work crews and eliminate unnecessary trips. And with MOTOTRBO's integrated GPS module, they can identify vehicle location in real-time and send the closest individual to respond to new requests.

**Get exceptional value and cut operating costs.**

By utilizing TDMA digital technology, MOTOTRBO enables two virtual channels within a single 12.5 kHz licensed repeater channel – double the capacity of analog. Since you don't need a second repeater, you save on equipment costs, too.

By integrating voice and data in one device, MOTOTRBO saves you the expense of additional equipment for text messaging and GPS location tracking. And to help control the cost of replacing batteries prematurely, our leading-edge IMPRES technology automatically maintains your battery fleet to lengthen battery life.

**Improve workforce safety**

on the road or at your workplace. Our transmit interrupt suite allows multiple talk group conversations to be interrupted for urgent messages. Emergency notification lets drivers notify dispatch of a situation with just a push of the button. And our integrated GPS module means dispatchers can identify the actual location of the drivers and immediately send assistance to the site.

In non-emergencies, dispatchers can text message drivers with information that can be read later to help them keep their eyes on the road. And with our hands-free audio accessories, workers in the field can stay focused on the job.

**Migrate at your own pace.**

With MOTOTRBO, you can keep operations running smoothly during a change in communication systems. Since MOTOTRBO radios operate in analog and digital mode, you can use them on your existing analog system and begin migrating over to digital – one talk group or department at a time – while maintaining communication across your entire workforce.

**Provide Supervisory Control and Data Acquisition (SCADA) systems.**

Combined with Motorola's SCADA product, the ACE3600 Remote Terminal Unit, MOTOTRBO provides a powerful data infrastructure. From simple building environmental monitoring to complex control applications, ACE3600 and MOTOTRBO deliver a powerful, cost effective solution. Handle water distribution, wastewater collection, public warning sirens and fire station alerting applications with a single integrated product to help ensure enhanced data reliability and operating security.



**MOTOTRBO RELIABLE COMMUNICATIONS DELIVERS:**

- Uninterrupted voice communication without static or noise
- Integrated voice and data in one device
- Text messaging when voice communication isn't practical
- GPS tracking and dispatch for access to mobile workers
- Scalable solutions to meet your communication needs
- Easy migration from analog to digital because it operates in both modes

**FIELD CREWS AND DRIVERS CAN STAY SAFER AND STAY FOCUSED**

**Respond rapidly, right where needed.**

Two-way radios allow workers to respond quickly to service requests, such as road repairs, facilities maintenance and traffic light outages. MOTOTRBO radios with GPS location tracking can help supervisors monitor vehicles and dispatch the nearest work team to quickly address critical issues and avoid delays.

**Hear clearly in loud settings.**

Whether your workers are repairing a pothole in a busy street or working in a noisy sanitation facility, they must be able to understand the message. MOTOTRBO's background noise suppression feature helps ensure communication comes through loud and clear.

**AGILE APPLICATIONS FOR YOUR AGENCY**

- Innovative application solutions** such as GPS location tracking, lone worker/man down, and network management allow you to expand radio capabilities as your needs grow.
- Text messaging:** Send text messages so crews can read when convenient, and not distract them from the road or the job
- Location tracking:** Monitor vehicle locations in real time to optimize routes; since the GPS is integrated, there are no external devices to install and maintain
- Dispatch:** Monitor and communicate with your mobile workforce from a centralized location
- Lone Worker / Man Down:** Radios automatically notify dispatch if the device falls at a certain angle and rate of speed, or if there is no activity during a certain amount of time. So even if workers are unable to call for help, their radio will
- Network Management:** Monitor, manage and report on your system's usage to minimize downtime and ensure optimal performance



## APPLICATION BRIEF PUBLIC SERVICE

With our complete line of audio accessories with leading-edge IMPRES™ audio technology, your workers can wear headsets to further suppress ambient noise, improve voice intelligibility and amplify loudness. Now you can be confident they'll clearly hear the message and not miss a call.

### Text when talking isn't practical.

Make sure workers can quickly and easily share information when voice communication isn't an option. Text messaging is ideal for sending messages that don't need an immediate response, or when voice calls are disrupting to employees on the road. MOTOTRBO™ streamlines time and improves safety with effortless text messaging.

### Work longer shifts with long-lasting batteries.

Responding to a water main break or road obstructions after a storm requires a long shift. And your workers require communication equipment that will work the entire time. MOTOTRBO offers enhanced battery life to do just that. Our digital TDMA two-way portable radios operate longer – up to 40% longer between recharges compared to analog radios.

Our leading-edge IMPRES smart energy technology allows communication between the battery and the charger to automate battery maintenance. The result is radios are charged and ready to go the moment they're needed.

### Work harder with radios that can take it.

Your workers operate in harsh weather and tough environments and two-way radios need to be tough-as-nails. MOTOTRBO radios meet the most demanding specifications including IP57 for submersibility in water (portable models), and U.S. Military 810 C, D, E and F. Our "intrinsically safe" portable radios are ideal for locations where flammable gas, vapors or combustible dust may be present.

### Enhance safety with leading-edge accessories.

IMPRES accessories help block out vehicle noise so transmissions get through clearly. We offer a full portfolio – from visor microphones for hands-free operation to keypad microphones to transmit text messages back to dispatch. Heavy duty headsets provide improved audio and hearing protection in extremely noisy environments. Desktop microphones and tray with speaker let dispatch set up a mobile radio as a control station to quickly communicate with drivers.



#### MOTOTRBO RELIABILITY AND SECURITY

Exceptionally clear audio, even in loud environments

Access data, such as text messages, when it's convenient and safe

Water submersible, tough-as-nails radios

Extended battery life for long work shifts

Hands-free accessories keep them focused on the job and on the road

#### MOTOTRBO PROVIDES THE RIGHT SOLUTION FOR THE RIGHT USER

- For security personnel in courts and other government facilities, XPR 7000 Series portables, combined with accessories such as a 2-wire surveillance kit, provide a safe, reliable communications solution. Software applications such as man down enhance safety by automatically notifying dispatch when the radio moves into a horizontal position or when movement is not detected for a period of time when on a patrol, so the radio can call for help when personnel can't.
- For the public works or streets and sanitation teams, XPR 5000 Series mobile radios provide a rugged and durable solution. Intelligent Audio ensures important calls are not missed when moving from quiet to loud locations, and GPS location tracking improves safety and efficiency by better coordinating work teams. Available Bluetooth® accessories allow drivers to stay in communication, even when they leave the vehicle.
- For central dispatch and office personnel, XPR 3000 Series portables deliver a scalable solution to provide clear communications between office and external field personnel. Additional software features, such as IP Site Connect, can create a continuous network that covers your employees at geographically-dispersed sites – so no matter where they are, they are rapidly and reliably connected.

For more information on how to improve service throughout your service area, visit [www.motorolasolutions.com/mototrbo](http://www.motorolasolutions.com/mototrbo).

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**MOTOTRBO**  
DIGITAL  
REMASTERED.