

# MTP SERIES TETRA PORTABLE RADIOS



YOUR RADIO. YOUR PARTNER.



# YOUR RADIO YOUR PARTNER

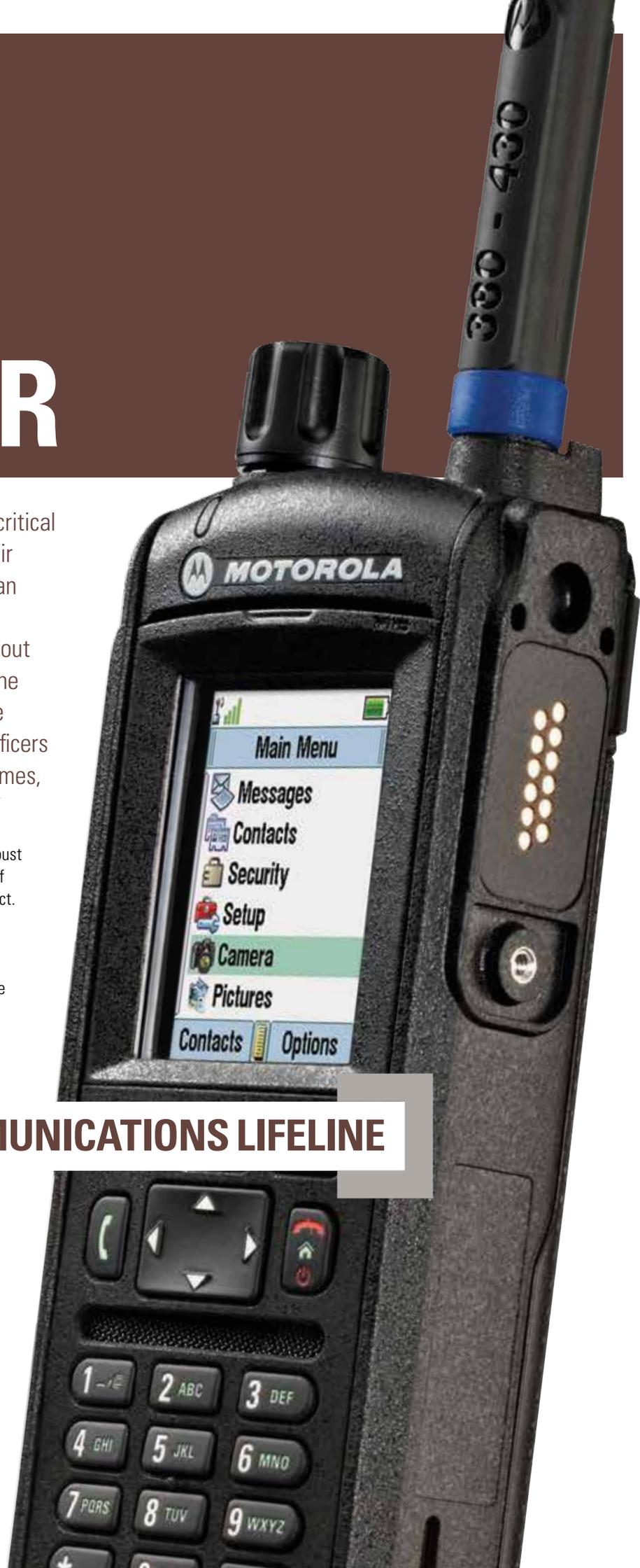
For frontline operatives involved in mission critical responses, the radio is their partner. It is their communications lifeline, a means by which an incident response is coordinated. In fact, public safety professionals are very clear about the importance of the communications lifeline that their radios provide. In the words of one police chief, "The radio needs to keep our officers connected with their team members at all times, this capability is vital to keeping them safe."

Making your personnel safer is not just about giving them robust and reliable equipment. It's also about enabling frontline staff to make better-informed decisions and to know what to expect. By arming personnel with critical intelligence, they'll be able to handle potentially dangerous situations like a traffic stop, more safely. In fact, 88%\* of public safety organisation decision-makers now see rapid delivery of critical intelligence as being of paramount importance.

## THE RADIO IS A COMMUNICATIONS LIFELINE

With an ageing radio fleet, ensuring the safety and high performance of your frontline operatives will become increasingly difficult. In the current fiscal environment, budgets are tightening so you need to ensure that information technology investments offer value for money, making your organisation more efficient and more effective. The good news is that the technology to help you get there is here today.

\*Based on Motorola 2010 Public Safety Survey



# SAFER PERSONNEL

## RELY ON A TRUSTED COMMUNICATIONS LIFELINE

With the industry's best guaranteed receiver sensitivity performance, the new MTP Series ensures that radio coverage can **extend up to 14% further\***.

You can expect class-leading audio performance, **supporting up to 2W audio power** through the built-in loudspeaker or through our **IMPRES** remote speaker microphone. And, when the radio must be operated covertly, you can use a broad range of wireless accessories worn in a pocket or on a lapel to connect to the radio instantly.

## FOCUS ON THE MISSION NOT THE TECHNOLOGY

Our unmatched, sturdy and rugged designs help maximize the uptime of the radio fleet and minimize personnel safety risks. In fact, our radios meet and exceed all 11 categories of the stringent military (MIL) test specification standards.

Additionally, with the **IP67 compliant** MTP6000 Series, your communications will not be impeded even after the radio has been submerged in water.

# SMARTER DECISIONS

## KNOW WHAT YOU'RE DEALING WITH

With time-critical intelligence delivered directly to their radios, your staff will be equipped to make better-informed decisions.

Using the **InfoPush** service, dispatchers can push time-critical content, such as pictures of a missing child, directly to frontline officers via the TETRA network, enabling a swifter response.

Your frontline personnel can access vital intelligence, such as mugshots, via the MTP6000 Series' **SD card** while you manage the content centrally to ensure that the information stays up-to-date for every shift.

## ENHANCE EVIDENCE GATHERING

Early capture of photographic evidence can be operationally vital, even crucial to a successful prosecution.

Equipped with the new MTP6750 radio, frontline officers can capture critical photographic evidence and ensure its integrity through our unique **Digital Fingerprint technology**.

# FASTER OPERATIONS

## STREAMLINE THE AUDIT TRAIL

Administering evidential images can be time consuming. More importantly, time spent in the office means less time on the frontline.

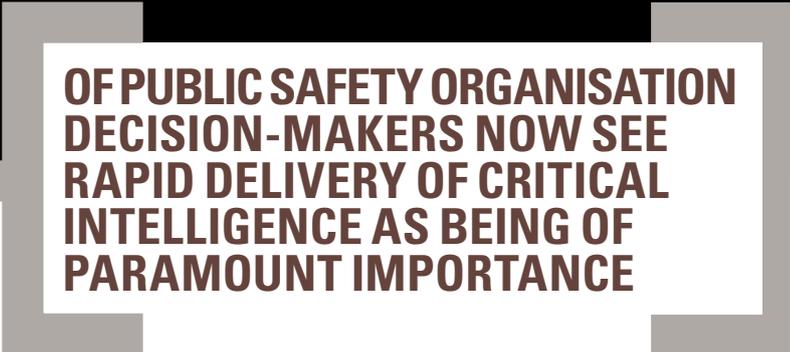
With **Photograph and Intelligence Communication System (PICS)** supported on the MTP6000 Series, evidential images, along with the relevant metadata, can be automatically uploaded to a secure image database. This saves precious time and helps your staff get back on the frontline faster.

## SHORTEN THE LEARNING CURVE

Your radio users are more likely to gravitate toward familiar-looking equipment and accessories. By equipping your team with auto-configuring **IMPRES accessories**, you'll make it faster for your frontline staff to adopt and effectively use their radios with the optimum audio settings. In addition, the **common intuitive user interface** used across our portable and mobile radios will help you minimise training costs and organisational disruption.



88%



88% OF PUBLIC SAFETY ORGANISATION DECISION-MAKERS NOW SEE RAPID DELIVERY OF CRITICAL INTELLIGENCE AS BEING OF PARAMOUNT IMPORTANCE

# TRANSFORM THE SAFETY AND EFFICIENCY OF YOUR FRONTLINE STAFF WITH TECHNOLOGY FROM THE WORLD'S LEADING PROVIDER OF TETRA RADIOS

\*Based on the Hata urban propagation model with no intermediate obstructions.

# KEEP CITIES SAFE. HELP COMMUNITIES THRIVE.

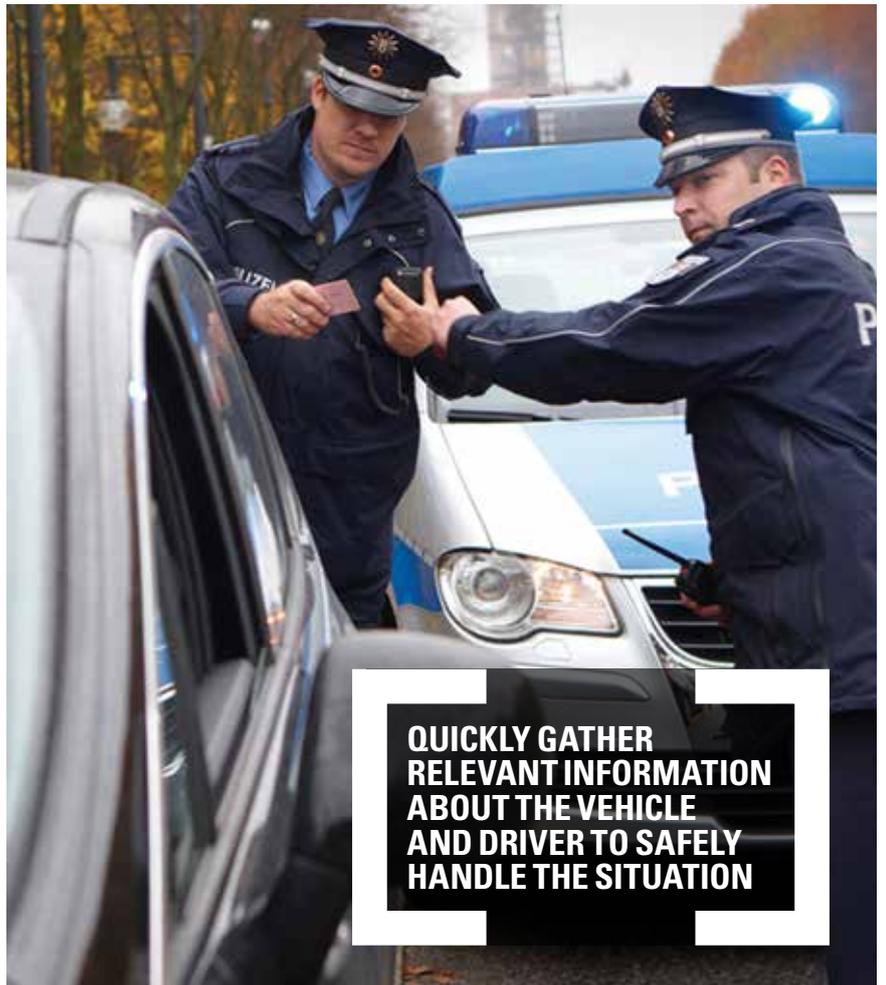
## PATROL OFFICERS PULL OVER A SUSPICIOUS VEHICLE

### GATHER VITAL EVIDENCE

While searching the vehicle, the officer finds a bag containing what appears to be an illicit substance. Suspect is then arrested. Using his **MTP6750** radio, prior to seizing the evidence, the officer **photographs** the bag to show exactly where it was found. He then takes photographic images of the vehicle as part of the evidence collection process. The metadata associated with each photograph provides critical contextual information such as the radio ID of the image capture equipment, GPS location, time and date.

### KNOW WHAT YOU'RE DEALING WITH

To verify the driver's identity, the officer uses a fingerprint reader which is securely paired via a standards-compliant **Bluetooth interface** to his **MTP6000 Series** radio. The radio securely transmits the scan data over the **TEDS** network to the biometric ID database to check for a match. Soon after, an image, name, date of birth and address are returned to the fingerprint-reading device along with details of a previous arrest for drug possession.



**QUICKLY GATHER  
RELEVANT INFORMATION  
ABOUT THE VEHICLE  
AND DRIVER TO SAFELY  
HANDLE THE SITUATION**

# EMERGENCY MEDICAL SERVICES RESPOND TO A ROAD TRAFFIC ACCIDENT IN A REMOTE AREA

## BENEFIT FROM EXTENDED OPERATIONAL RANGE

With the paramedic's MTP Series radio set to Direct Mode Operation (DMO), communication with the control centre is maintained, via his vehicle's TETRA mobile gateway, and he proceeds to attend to the accident victims.

## FOCUS ON THE MISSION

To avoid the problem of tangled wires while attending to the accident victims, the paramedic uses **Operations Critical Wireless** ear bud and PTT pod accessories. Thanks to its mission-critical **rugged design**, the paramedic is confident that his MTP Series radio can stand up to whatever the environment puts in his way.



COMMUNICATE WITH CONTROL CENTRE USING A PORTABLE RADIO WHEN COVERAGE IS LIMITED TO MOBILE RADIOS IN REMOTE AREAS

# COORDINATING A RESPONSE INVOLVING MULTIPLE AGENCIES

## GET READY FASTER

En route to the incident, the response team equip the necessary fire apparatus. The quick connect mechanism in the MTP3000 Series audio accessory connector saves them precious time, allowing connection of their audio accessories in less than 2 seconds.

## INTEROPERATE SEAMLESSLY WITH OTHER AGENCIES

Using a **Private Call** from his **MTP6000 Series radio**, the incident commander directs the local utility to shut off the gas to the affected building.

## COORDINATE MULTIPLE RESPONSE TEAMS

Additional fire teams from a neighbouring district are dispatched to support the original fire team. To ensure that the Incident Commander can coordinate all the fire fighters on the scene, the dispatcher uses **SDS Remote Control** messages to direct their MTP3000 Series radios on to the incident talkgroup.

## COMMUNICATE CLEARLY OVER EXTREME BACKGROUND NOISE

**2W audio output and advanced noise** suppression technology in the MTP3000 Series radios ensure that the firefighter response teams communicate clearly over the high noise of diesel engines and sirens.



COORDINATE A MULTI-AGENCY RESPONSE EFFICIENTLY FROM CENTRAL COMMAND OR WHILE ON THE SCENE

# DISTRIBUTING CRITICAL INTELLIGENCE TO NEIGHBOURHOOD PATROL TEAMS

## DELIVER VITAL LOCAL INTELLIGENCE TO THE RIGHT PEOPLE

During the morning briefing, the supervisor provides details of individuals with court order restrictions and a list of stolen vehicles for which to look. Using the **Integrated Terminal Management** system, the specific local intelligence is also distributed over the IT network to the relevant patrol officers' radios.

## RESPOND QUICKLY TO NEW INTELLIGENCE

On the CAD system, a geofence is set up to dispatch nearby patrol officers to investigate reports of a court order violation by an individual. Officers within the geofence area receive a **Call Out** message with instructions about the incident. After accepting the Call Out request, an image of the individual is sent to the relevant patrol officer via **InfoPush**.



ACCESS TO VITAL LOCAL INTELLIGENCE WHILE ON NEIGHBOURHOOD PATROL

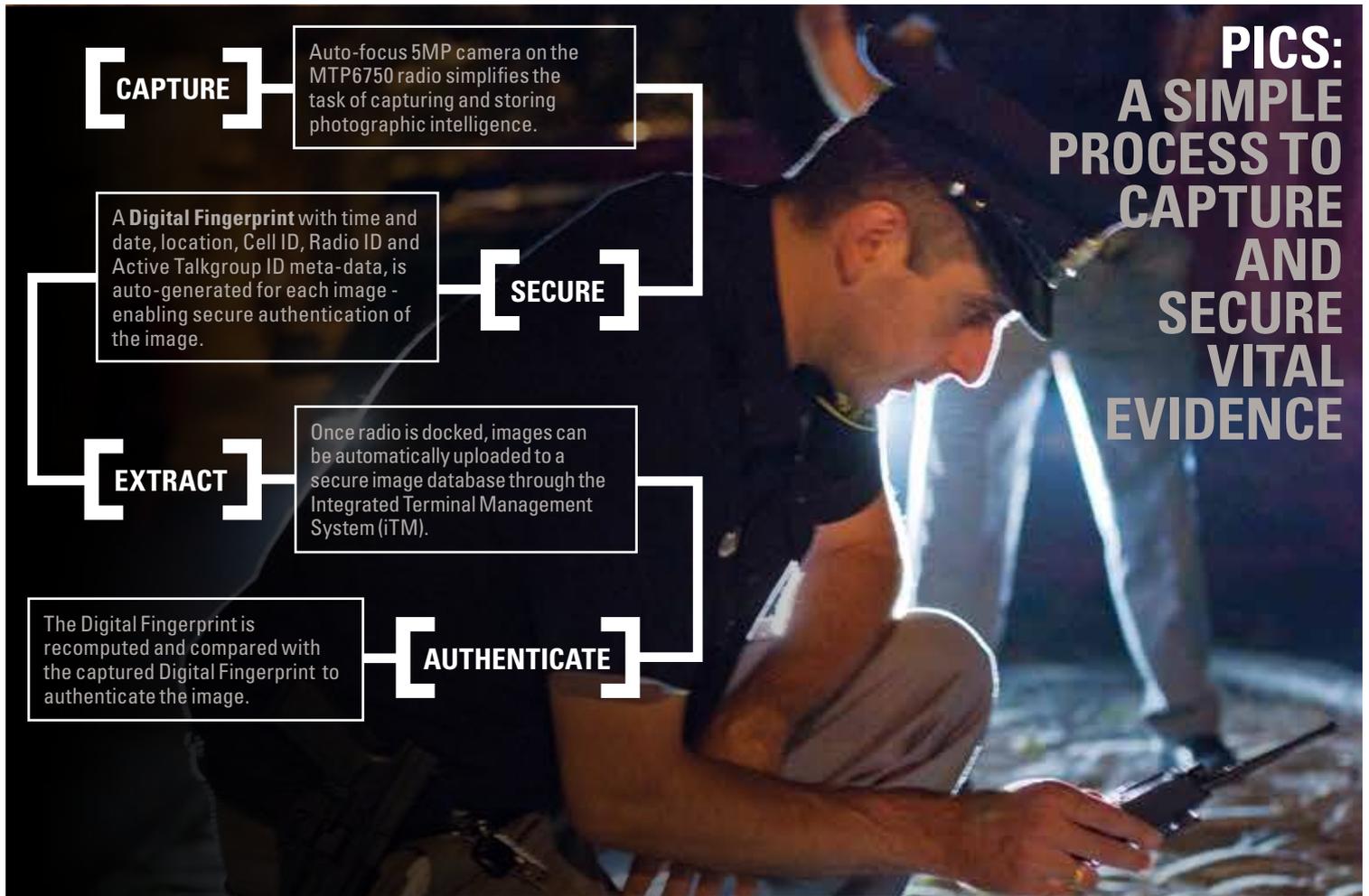
# ROAD SAFETY INSPECTIONS

## RESOLVE MAINTENANCE ISSUES FASTER

A road safety inspector identifies a faulty manhole cover in the pavement. Using his MTP6750 radio, he captures an image of the defect. After docking his radio back at the office, the **PICS** application ensures that contextual information is automatically appended to the images to enable indexing and then stores them in a secure digital image repository. The inspector then emails the evidential images to the relevant utility company, requesting a fast resolution.



ENSURE THAT DEFECTS ARE QUICKLY REPORTED AND DEALT WITH



# PICS: A SIMPLE PROCESS TO CAPTURE AND SECURE VITAL EVIDENCE

## CAPTURE

Auto-focus 5MP camera on the MTP6750 radio simplifies the task of capturing and storing photographic intelligence.

A **Digital Fingerprint** with time and date, location, Cell ID, Radio ID and Active Talkgroup ID meta-data, is auto-generated for each image - enabling secure authentication of the image.

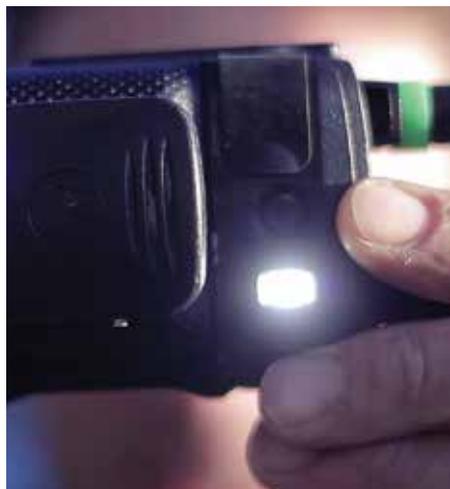
## SECURE

## EXTRACT

Once radio is docked, images can be automatically uploaded to a secure image database through the Integrated Terminal Management System (iTM).

The Digital Fingerprint is recomputed and compared with the captured Digital Fingerprint to authenticate the image.

## AUTHENTICATE



Supervisors generate briefing content to share with their team members.

## GENERATE

## PUSH

Line of business applications can push information to the iTM server.

Once MTP6000 Series radios are docked, content is automatically transferred to their SD card.

## DELIVER



# PICS: A SIMPLE PROCESS TO SHARE INTELLIGENCE



# 5 MODELS, 1 BENCHMARK

## AN UNRIVALLED PORTFOLIO OF TETRA RADIOS

By matching the right device with the right user, you can get the maximum return from your investment in mission-critical communications. That's why we developed the MTP Series portfolio – a complete suite of portable radios designed to address the specialised needs of different types of users.

<b>ESSENTIAL</b>	<b>MTP3100</b> The right solution for mobile workers operating in tough environments that require reliable group voice communications.	<b>ENHANCED</b>	<b>MTP3200 &amp; MTP3250</b> Optimised solution for mobile workers operating in demanding environments and for whom dependable dispatcher-centric communications is critical.		<b>PREMIER</b>	<b>MTP6000 SERIES</b> Ideal for field operatives involved in mission-critical situations looking to take advantage of data for improved decision-making and efficient operations.	
							

	MTP3100	MTP3200	MTP3250	MTP6550	MTP6750
<b>COMMUNICATIONS AVAILABILITY</b>					
2W Audio Loudspeaker	•	•	•	•	•
2W Audio IMPRES Remote Speaker Microphone	•	•	•	•	•
Enhanced Receiver Sensitivity	•	•	•	•	•
Integrated Direct Mode Operation (DMO) Repeater	•	•	•	•	•
Integrated GPS		•	•	•	•
Rugged Corrosion-Resistant Bottom Connector	•	•	•	•	•
Environment Protection - IP65	•	•	•	•	•
Environment Protection - IP67 Water Submersible				•	•
<b>USABILITY</b>					
IMPRES Audio Accessory Support With Auto-Configuration	•	•	•	•	•
Operations Critical Wireless Push-To-Talk (Bluetooth Standard Compliant)	•	•	•	•	•
Operations Critical Wireless Audio Accessories (Bluetooth Standard Compliant)	•	•	•	•	•
Large 2" QVGA Display				•	•
Enhanced PTT Tactility				•	•
<b>DISPATCH MESSAGING AND TASKING</b>					
Call Out	•	•	•	•	•
Immediate Messaging	•	•	•	•	•
Radio Messaging	•	•	•	•	•
<b>DATA SHARING</b>					
InfoPush Service	•	•	•	•	•
Integrated WAP browser	•	•	•	•	•
Bluetooth Data Sharing				•	•
TETRA Enhanced Data Service (TEDS) Hardware Readiness				•	•
PICS - Enterprise-Grade Image Management				•	•
Removable Memory - Micro SD Card				•	•
<b>EVIDENCE AND INTELLIGENCE MANAGEMENT</b>					
Integrated 5MP Camera					•
Digital Fingerprint For Image Authentication					•
Rich Metadata					•
Auto-Upload And Download Of Images Via PICS				•	•



# KEY ENABLERS

## COMMUNICATIONS AVAILABILITY

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### LOUD AND CLEAR AUDIO

Both the integrated loudspeaker and IMPRES RSM are rated for 2W to give you loud, undistorted audio. Coupled with the wide dynamic range of the microphone, this ensures that you will hear and be heard clearly in the most demanding high noise environments.

### SUPERIOR COVERAGE

The MTP Series offers best-in-class transceiver specifications, giving you the widest coverage and keeping your team connected.

## ENHANCED USABILITY

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### AUTOMATIC ACCESSORY CONFIGURATION

Simply plug in an IMPRES accessory, such as a remote speaker microphone, and the radio will identify it and load an optimised audio profile – saving you time and hassle.

## ENHANCED STATUS MESSAGING

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With the Radio Messaging System, the job of managing and tracking the current status of your field staff is made easier. Individual radio buttons can be assigned to a predefined status, with the most recent status update presented on the radio display – making it much easier for users and dispatchers to track operations.

## DISPATCH AND TASKING KEY ENABLERS

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### CALL OUT APPLICATION

To ensure that resources are deployed in an optimal manner, it is important for dispatchers to know who is available to respond. With **Call Out**, dispatchers can request resources using a special Short Data message and track exactly who is responding to an incident.

### TASKING

With **Immediate Messaging**, dispatchers can push key data, such as incident related information, directly to the radio's display – saving the need to navigate the menu structure to receive messages.

## DATA SHARING

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### INFOPUSH SERVICE

When time is critical, **InfoPush** helps you rapidly deliver critical information, such as images of missing persons, to the right people.

### ENHANCED DATA CONNECTIVITY

For higher speed data connectivity, the MTP6000 Series radios are hardware-ready for supporting TETRA Enhanced Data Service (TEDS) - this offers up to 20X faster data transfer speeds when compared with Single Slot Packet Data. With support for Bluetooth v2.1 Secure Simple Pairing, data peripherals such as tablet computers can be securely tethered to MTP Series radios.

## EVIDENCE AND INTELLIGENCE CAPTURE

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### EVIDENTIAL IMAGE CAPTURE

To support the capture of vital photographic intelligence, especially by frontline workers, the MTP6750 radio offers an integrated digital camera. The integrated camera system includes an image authentication feature based on a Digital Fingerprint – helping you prove the authenticity of evidential images captured by frontline staff.

### PICS FOR DIGITAL EVIDENCE MANAGEMENT

To streamline the process of cataloguing and storing images captured with the MTP6750, the enterprise-ready PICS solution aids the entire end-to-end process, from image capture to image retrieval.

# EXTENDING SAFETY BEYOND THE RADIO

## IMPRES PROVIDES INSTANT IDENTIFICATION

Plug in an accessory from our IMPRES line – such as the remote speaker microphone (RSM) – and your radio automatically identifies it and loads the correct profile to optimise audio performance. What's more, our IMPRES large-speaker RSM matches the high-powered speaker on your radio for even better communications in high-noise environments – essential for noisy crowds or heavy traffic.

## STRONGER, SECURE CONNECTIONS

From the pipeline to the fire line, our MTP Series accessories offer robust and reliable performance, tough enough for your most action packed days. A newly designed, durable and compact, 8-pin connector ensures the accessory stays attached – whether you're jumping over barriers or climbing up ladders. With its tightly sealed radio interface, your accessory can be exposed to water without losing the connection. Yet the connector is so slim, it won't add bulk to the radio.

## OPERATIONS CRITICAL WIRELESS BLUETOOTH ACCESSORIES

The Operations Critical Wireless portfolio has been engineered to enhanced security pairing through Bluetooth standards-based Secure Simple Pairing and encryption algorithms and fast PTT. Our earpieces provide exceptional audio clarity and volume so messages come through loud and clear, even in noisy settings. The discreet earbud, which resembles a consumer device, offers private listening in noisier environments. Durable yet lightweight, these wireless accessories fit comfortably, making them ideal for long shifts.



**EXTEND THE POWER AND RELIABILITY OF  
YOUR RADIO WITH THE ONLY COMPLETE LINE  
OF ACCESSORIES DESIGNED, TESTED AND  
CERTIFIED FOR OPTIMAL PERFORMANCE OF  
YOUR MTP SERIES RADIOS.**



# SAFER PERSONNEL SMARTER DECISIONS FASTER OPERATIONS

## MTP SERIES TETRA PORTABLES

### **WHEN YOU NEED SUPPORT, WE'RE THERE**

With our proven capability, you can be sure your equipment is expertly repaired and back in the hands of your users quickly. Using the latest tools and with strict adherence to Motorola engineering procedures, our expert technicians diagnose and repair units to original manufacturing specifications. We offer a single source for support delivered through our call centre, available 24x7 to track customer issues and 8x5 for technical support.

### **BE READY FOR WHAT'S AHEAD. PROCEED WITH INTELLIGENCE**

With the new MTP Series, Motorola is helping to connect frontline personnel with mission-critical intelligence. With the increased situational awareness, frontline resources are more effective, the public more secure and our communities more prosperous.

For more information on the MTP Series radios, please visit us on the web at:  
[www.motorolasolutions.com](http://www.motorolasolutions.com)

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