WHEN EVERY SECOND COUNTS

INTELLIGENT TECHNOLOGY SPARKS SAFER AND FASTER FIRE RESPONSE

MOTOROLA *SOLUTIONS*

IMAGINE
A WORLD WHERE

Critical incident information is shared at speed
When it's crucial that up to date incident information is shared with the right resources at the right time

- The Command and Control system identifies the nearest fire stations to the incident and rapidly issues callouts to available firefighters.

- Part-time firefighters acknowledge callout messages and information on incident participants is quickly relayed to the control centre.

- The incident commander is assisted by digitised information about hazardous materials on the scene and the safest way to deal with the situation.

- Information from previous fire inspections of the building is easily obtained and enables the incident commander to mobilise the most appropriate resources.

Inter-agency communications are seamless
When disaster response procedures are called into action

- At the request of a multi-agency incident command leader, radio network sites are reconfigured to provide priority access to incident participants – ensuring critical messages will get through.

- A dispatcher at the fire and rescue services control centre remotely steers radios used by team leaders onto a common incident talk group - helping the incident commander coordinate the response.

- Sensors combine with video analytics to provide a reliable, early stage fire detection capability – giving fire teams precious seconds that could make an enormous difference and providing critical information about a fire.

PARTNER WITH MOTOROLA SOLUTIONS
AND BENEFIT FROM NEXT GENERATION PUBLIC SAFETY COMMUNICATIONS

PREVENTION
AND EARLY DETECTION OF FIRES

An array of advanced technologies that include mobile computing devices, video streaming and social media analytics, sensors and telemetry help to improve fire prevention and early stage fire detection.

ALERT
FIRE CREWS

Emergency alerting delivered over the existing mission critical TETRA network reduces operational costs, avoids incremental costs of separate paging networks and supports the drive for greater efficiency.

MOBILISE
FIRE CREWS

An integrated command and control system ensures that critical and up-to-date information is delivered to the incident commanders and firefighters at the right time and in the most appropriate format.

ACTION
AT THE FIREGROUND

Mission critical TETRA radios and accessories that combine industry leading RF performance with ease of use and ruggedness enhance the safety of fire-fighters at the fireground.

CHECK
FIRE EQUIPMENT AND PREPARE FOR REDEPLOYMENT

A robust, integrated asset management system supported by comprehensive services enables reduced ownership and operating costs.

MOTOROLA SOLUTIONS IS FOCUSED ON DELIVERING ADVANCED TECHNOLOGIES AND SERVICES ALIGNED TO FIRE PREVENTION, EARLY FIRE DETECTION AND EMERGENCY RESPONSE REQUIREMENTS.

MOBILISE

ACTION

ALERT

CHECK

PREVENT · PREVENT · PREVENT · PREVENT ·

PUBLIC SAFETY AND SECURITY

TECHNOLOGY DESIGNED BY AND FOR THE EMERGENCY SERVICES

EVERY FEATURE AND FUNCTION DESIGNED WITH THE USER IN MIND

MTP8000EX TETRA ATEX RADIO

LOUD AND CLEAR AUDIO
Optimised for excellent audio performance in all types of noisy environments. Audio through both the speaker and accessories is clearer, even at full volume, and the user can be heard clearly against the loudest background noise.

ENHANCED COVERAGE
High receiver sensitivity and high transmit power gives greater coverage and enhanced in-building performance. For ultimate safety, the radio is fitted with an LED coverage indicator at the base of the antenna, alerting the user when coverage is poor.

RUGGED DESIGN
Built to work in the toughest and most hazardous environments, in both the cold and wet or the dust and heat, with IP65, IP66 and IP67 ratings.

EXTENDED BATTERY LIFE
With an extended battery life in excess of 16 hours, workers can be confident that the MTP8000Ex Series radios will be ready for a longer shift in the event of emergencies or unplanned situations.

ANC RSM

This ATEX-Certified Remote Speaker Microphone was tested with the MTP8000Ex to form a complete TETRA ATEX Solution. The Active Noise Cancelling (ANC) RSM has two PTTs (side and front), High/low volume control, emergency button, 1 programmable button. Supports Dräger and Savox helmet comms and 3.5mm discreet listening accessories.

LEX L10 LTE HANDHELD

When the mission is not putting out fires, the LEX L10 Mission Critical LTE Handheld provides optimal coverage on both 3G/4G Commercial and Public Safety LTE networks. Seamless connectivity and coverage for data sharing is increasingly critical in operations. Equipped with telephony and WAVE PTT capabilities allow you to quickly connect with radio and phone users when away from the station.

MTP5500 TETRA MOBILE

The MTM5500 is a highly flexible and capable system radio which permits the installation of multiple control heads. Up to 40m from the radio for a total of 80m on a fire engine. The new Telephone Style Control Head provides an alternative method to control the radio and make voice and data calls.

MTP6550 TETRA PORTABLE

Ideal for incident commanders, the MTP6000 Series of TETRA Portable Radios ensures communications availability through a rugged, water-submersible design. The radio also provides unmatched communications clarity with 2W audio, ensuring minimum audio distortion even at high volume through the in-built speaker or an attached remote speaker microphone. With best-in-class receiver sensitivity, operational range can be extended up to 14%.

ST7000 SMALL PORTABLE

The ST7000 provides uncompromising coverage in a compact and discreet design, perfect for office workers or supervisors who need a radio that can easy fit in their pocket. Integrated Bluetooth® 4.0 wireless technology and 3.5mm audio connector make the ST7000 a flexible, modern communications tool that allows users to focus on what matters most.

SERVICE FROM THE START
Optimising uptime of your Motorola Solutions radio is imperative in mission critical situations, lives could depend on it. Take advantage of our range of flexible support packages combining expert technical support, software updates and hardware repair to ensure your radios are maintained to manufacturing specifications.

DELIVERING THE RIGHT INFORMATION
AT THE RIGHT TIME SAVES LIVES

When a call comes in, technology should immediately begin delivering the right intelligence
to the relevant personnel for a faster response and ultimately a safer outcome.

16:30 p.m.

16:32 p.m.

16:39 p.m.

16:40 p.m.

16:45 p.m.
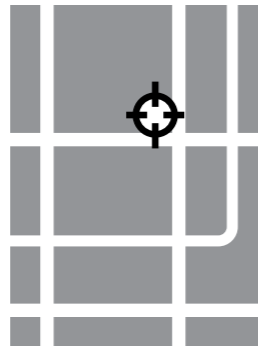
16:48 p.m.

FIREFIGHTER INTELLIGENCE

Dispatch alerts the nearest fire station to a call. Mapping information and dispatch details are automatically displayed on the station's incident display board. Doors on the station automatically open for exit and appliances such as the stove are automatically shut off.
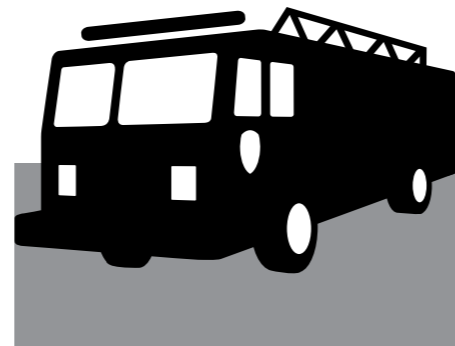
Firefighters are automatically routed to the incident scene via the mapping display in their emergency vehicle. On the way to the scene, firefighters receive intelligence from video feeds near the incident as well as information on hydrant statuses and building plans on their mobile devices.

Firefighters arrive at the scene and enter the building to search for individuals trapped inside, armed with radios as well as sensors monitoring their equipment statuses and their exact location.

FIREFIGHTER INTELLIGENCE

All on-scene personnel respond by hitting the push-to-talk button on their radio – except one. A man-down alert is sent to incident command.

The extraction team heads directly to the location of unresponsive fallen firefighter.

The crew brings out the firefighter. Efforts are focused on fighting the fire after clearly hearing incident command's orders on their ATEX-certified radios.

INCIDENT COMMAND INTELLIGENCE

Dispatch begins sending relevant incident data such as location, records, video feeds and premise/hazard information to the commander's handheld device.

Incident command is automatically routed to the incident scene via the mapping display in their vehicle. On the way to the scene, they receive additional intelligence from video feeds. Incident command is also able to see in real time the units which are responding to the incident and their estimated time of arrival.

Incident command receives real-time statuses from firefighters and can view firefighters' exact location in the building on a 3D map. The commander also gets a 360 degree view of the building from a deployed drone. Noting an emergency has been initiated from an immobile radio the, incident command calls for a PAR check.

INCIDENT COMMAND INTELLIGENCE

Incident command issues an emergency alert and sends in a Rapid Intervention Crew to extract the unresponsive firefighter based on his mapped location within the building.

Incident command sees on his mobile device that the firefighter's tank still has air – and that the extraction team has reached him.

Incident command has an emergency medical team waiting to help – and using WAVE they are able to contact a cardiologist via the doctor's mobile phone, asking him to standby for consultation if needed.

ENABLED WITH THE RIGHT INFORMATION TO MAKE THE BEST DECISIONS FIREFIGHTERS TOOK CONTROL OF THE SITUATION FOR THE BEST POSSIBLE OUTCOME.

17:01 p.m.

FIREFIGHTER INTELLIGENCE
The fire is extinguished without spreading to adjacent buildings.

INCIDENT COMMAND INTELLIGENCE
The fire is extinguished without spreading to adjacent buildings.

SMART SOLUTIONS
THAT IMPROVE SAFETY AND RESPONSE

When it comes to responding to emergencies, clear, reliable communications are paramount. Real-time access to equipment statuses and personnel locations – indoor and out, mean better decisions that lead to better outcomes – outcomes that improve fireground safety and the safety of the communities you serve.

ENABLING SAFER OPERATIONS WITH THE CONNECTED FIREFIGHTER

With a purpose-built design for the firefighting community, Motorola Solutions TETRA portable and mobile radios deliver the clearest audio in the industry, allowing firefighters to hear even in the most chaotic of conditions. **TETRA ENHANCED DATA SERVICES (TEDS)** provides interoperable data communications across agencies and networks so they can share information such as video, photos and text without interrupting voice communications.

Meanwhile, location tracking, equipment telemetry sensors and live streaming video cameras in the incident area can be shared using an LTE modem in your vehicle. Designed with the user experience in mind, Motorola Solutions technologies are non-intrusive, intuitive to operate, offering a seamless flow of critical intelligence across users and devices.

GIVING INCIDENT COMMAND THE INFORMATION THEY NEED

Incident management applications such as **COMMANDCENTRAL INFORM** can be accessed on most devices, from smartphones and tablets, to laptops and PCs. CommandCentral Infrom offers customisable views to resources in the field giving incident command better situational awareness and incident coordination capabilities.

USING SMART PUBLIC SAFETY SOLUTIONS FOR BETTER OUTCOMES

Motorola Solutions **INTELLIGENT MIDDLEWARE** works behind-the-scenes to provide responding personnel with relevant and contextual intelligence necessary for a more effective response. For example, while traveling to the incident scene, users will receive the best travel route and can see where other users are and when they will be arriving. **COMMANDCENTRAL STREAMING** gives them access to live incident video from drones or nearby building cameras and Intelligence Operators convey reported incident details and records such as floor plans or hydrant locations to enable a more intelligent, real-time response.

THE RIGHT FIREFIGHTING PARTNER HELPS YOU HIT THE GROUND RUNNING – AND STAY ON TRACK

FIREFIGHTERS FROM GERMANY'S LARGEST PROFESSIONAL FIRE DEPARTMENT COMMUNICATE USING MOTOROLA SOLUTIONS TETRA DIGITAL RADIOS

Germany's largest professional fire department will upgrade its communication system from analogue to digital radio as part of the country's radio modernisation project. After all, the ability to respond rapidly in an emergency is particularly important for the fire brigade. The central criteria for the system were defined in a national invitation to tender in order to find a suitable digital radio solution comprising handheld terminals, accessories and service products, which would satisfy every aspect of the customer's requirements.

Motorola Solutions was the only supplier to offer intrinsically safe ATEX radios, which are specially designed for use in potentially explosive environments. Moreover, the TETRA digital radios from Motorola Solutions have a user-friendly design that allows firefighters to concentrate fully on the task in hand. The largebuttons are easy to use even when wearing gloves and the scalable fonts and symbols are easy to read even when visibility is poor. The terminals also offer outstanding audio performance for the best possible communication in loud environments.

Functions such as the "man down alert", which triggers an emergency procedure if the user remains motionless for a specified period of time or is lying on the floor, and the ability to locate personnel when outdoors via the integrated GPS module offer firefighters an additional degree of safety in life-threatening situations.

The GPS function supports the transmission of positional data and therefore real time on-site deployment of response vehicles. This in turn allows teams be assigned efficiently and sent to the next location as quickly as possible. In-vehicle mobile TETRA digital radio terminals allow vehicles to be contacted and coordinated much more effectively. Emergency service personnel can therefore respond more quickly and accept additional ad hoc deployments and tasks.

CUSTOMER PROFILE

- **Country**: Germany

- **Organisation**: Germany's largest professional fire department

EQUIPMENT/SERVICES

- 1,1000 TETRA ATEX Portables

- 500 non-ATEX TETRA Portables

- 100 Motorola Solutions FuG Portables

- > 1,000 Vehicle Mobile Radios

- Integrated Termianl Management

BEHIND EVERY STEP IS THE POWER OF MOTOROLA SOLUTIONS

IDENTIFY THE RIGHT SUPPORT MODEL TO OPTIMISE YOUR INTERNAL RESOURCES

With the current economic conditions, we are seeing that government agencies are increasingly looking to shift from more capital-intense customer owned business models to increasingly operational expense-focused managed service models where a predictable, recurring fee takes the place of a large upfront spend.

To support these new flexible business models, we offer a comprehensive portfolio of services across the lifecycle of mission critical communications solutions - from consultation around initial concepts to design, integration and ongoing solution support. We also offer a range of managed services offerings, encompassing radio software and configuration management, asset management and all aspects of repair and maintenance. These enable you to take care of internal strategic issues, while we take care of your fleet of radios.

A COMPREHENSIVE PORTFOLIO OF SERVICES

ASSESS, PLAN AND DESIGN	**Professional Services:** Industry experts offer technology assessments and planning and design services to help you prepare for next generation technologies.
INTEGRATE AND OPTIMISE	**Integration Services:** Experienced teams bring together the right elements to address your end-to-end system customisation requirements by integrating large-scale, multi-service and multi-vendor solutions including software development and support that deliver measurable results.
SUPPORT AND SECURE	**Support Services:** World-class operations centers and emergency response teams are committed to keeping your critical operations online and backing your technology investments with technical support.
HOST AND MANAGE	**Managed Services:** Highly-secure, enterprise-class managed solutions and hosted services help you reduce costs and manage risk while allowing you to focus on your core mission.

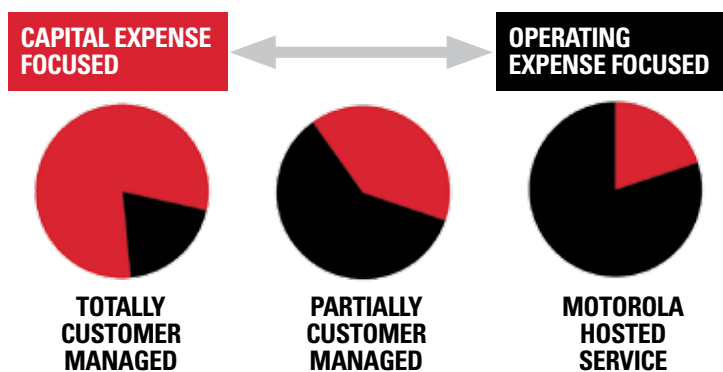## TRUSTED IN PUBLIC SAFETY FOR MORE THAN 75 YEARS.

Motorola Solutions is leading the way to a new generation of public safety solutions. Combining advanced new technological capabilities with the reliability of the industry's most trusted mission critical solutions to provide real-time sharing of crucial voice, data and video communications where they're needed most.

Motorola Solutions' strong position in the fire sector has enabled many customers around the globe to propel their operations towards greater excellence and success.

We have customers around the world, including the following:

- Australia
- Austria
- China
- Denmark
- Ecuador
- Germany
- Ireland
- Northern Ireland
- Korea
- Latvia
- Malaysia
- Netherlands
- Norway
- Singapore
- Sweden
- United Kingdom
- United States

FLEXIBLE MANAGED SERVICES

CAPITAL EXPENSE FOCUSED ←→ **OPERATING EXPENSE FOCUSED**

TOTALLY CUSTOMER MANAGED

PARTIALLY CUSTOMER MANAGED

MOTOROLA HOSTED SERVICE

For more information on our next generation public safety communications, please visit us on the web at: **www.motorolasolutions.com**

MOTOROLA SOLUTIONS