



CONNECTED ENVIRONMENTS

GUIDE



GLOBAL ISSUES ARE BEARING DOWN ON THE EMERGENCY SERVICES.

A SURGE IN NATURAL DISASTERS, AGEING POPULATIONS AND RISING INFLATION ARE CONSTRICTING BUDGETS AND STRAINING RESOURCES.

First responders continue to strive tirelessly to meet public demand, but a significant shift in operations is required to achieve lasting, substantial improvements. A key element in eliciting change in the emergency services lies in modernisation: leveraging technology to reduce the time personnel spend on administration, supplying relevant information when it's required and increasing situational awareness. However, simply introducing another system won't create efficiency. An additional fragmented workflow generating a stream of information that isn't gathered or analysed will lead to further burden. Improvements in emergency care can only be achieved through interconnectivity.

BREAKING DOWN SILOS AND BRIDGING SYSTEMS: INTERCONNECTIVITY FOR THE EMERGENCY SERVICES

One integrated ecosystem allows information to be shared across agencies - both local and national, creating synergies, maximising system security and performance, and decreasing costs. Resources are better allocated, response time is reduced and errors are mitigated.

Committed to delivering connectivity for mission-critical industries for over 30 years, at Motorola Solutions, we work closely with the teams we serve to understand the obstacles in their workflows, building solutions that improve operations and outcomes.



CONNECTED ENVIRONMENTS



FROM RESPONSE TO REPORTING, A UNIFIED APPROACH TO EMERGENCY SERVICES

WE'VE DEVELOPED AN END-TO-END SYSTEM WHICH INCORPORATES OUR LEADING TECHNOLOGY: LAND MOBILE RADIO (LMR) AND LONG TERM EVOLUTION (LTE) COMMUNICATIONS, CONTROL ROOM SOFTWARE, PLUS BODY-WORN CAMERAS (BWCs) AND IN-CAR CAMERA SOLUTIONS. WITH ENHANCED INTEROPERABILITY, OUR SOLUTIONS ARE DESIGNED TO INTEGRATE SEAMLESSLY ACROSS PLATFORMS, INCLUDING WITH FUTURE INNOVATIONS.

Connected Environments incorporates the mission-critical and business critical technology required to relieve administrative demands, provide unparalleled connectivity and reshape situational awareness, empowering personnel with new levels of safety and productivity.

Its three components: Connected Officer, Connected Control Room and Connected Vehicle can be leveraged individually or collectively, according to the needs of your agency.

CONNECTED OFFICER

WHEN SAVING TIME CAN MEAN SAVING A LIFE, IT'S ESSENTIAL THAT YOU CAN RELY ON INTUITIVE, SYNCHRONISED TOOLS TO ESTABLISH TRUST AND TRANSPARENCY, PRIORITISING THE SAFETY OF PERSONNEL AND THE PUBLIC.

STREAMLINE AND STRATEGISE

From a digital notebook that automates operations to a robust two-way radio with adaptive audio, inefficiencies are eradicated as workflows are revised with crucial information and actionable insights - when they're needed most. Consequently, police personnel can excel in the role they're intended for - safeguarding the streets, not completing paperwork.

CONNECT AND PROTECT

Harnessing enhanced video intelligence, the next generation of BWCs enables evidence to be captured, live-streamed to colleagues and recorded alongside essential information, which can be offloaded remotely - without returning to base. An effective deterrent of adverse behaviour, BWCs interlink with our steadfast radios, which include an immediate emergency button to promote community safety and support.



CONNECTED VEHICLE

ON THE ROAD AND IN CONTROL. WHEN POLICE RESPONDERS ARE ON PATROL, SITUATIONAL AWARENESS - BOLSTERED BY KNOWLEDGE, COLLABORATION AND EFFICIENCY - IS IMPERATIVE.

AIDING MISSIONS AND MANAGING OPERATIONS ON THE MOVE

Bringing the functionality and connectivity of the control room to your vehicle, the intuitive interfaces in our video systems, digital evidence management solutions and hands-free two-way radios provide personnel with comprehensive awareness - fundamental to their

safety, productivity and response. Powered by cutting-edge technology, the in-car system observes and analyses your surroundings - issuing immediate threat alerts and automatically capturing evidence-grade footage from inside and outside the vehicle. It allows reports and statements to be processed, shared and saved, anywhere - at any time.



CONNECTED CONTROL ROOM

THE ESSENCE OF ANY EMERGENCY RESPONSE, FOR YOUR CONTROL ROOM TO SERVICE THE NEEDS OF YOUR TEAM, IT REQUIRES SYSTEMS THAT CAN SEAMLESSLY MANAGE THE FLOW OF INFORMATION TODAY, AND EMBRACE THE TOOLS OF TOMORROW.

COHESIVE SYSTEMS FOR A COORDINATED RESPONSE

Our advanced mission-critical network and unified control room systems support real-time decision making, ensuring information is shared across agencies, and available when it matters most. The end of disparate systems rife with discrepancies and duplication, information is securely stored, analysed and reported on, errors are detected and operations are automated for heightened productivity.

ANY NETWORK AVAILABILITY

In the next decade, global critical industries looking to leverage enhanced levels of security, reliability and availability will move from LMR to 3GPP-compliant 4G and 5G broadband mission-critical communication networks (known as MCX). During the crossover,

it's expected that LMR networks will work alongside MCX systems. Rather than burdening frontline teams with multiple communication devices using both networks, we've ensured our systems will continue to deliver the standards of connectivity they require, whether that's analogue or broadband.

FACILITATING FUTURE PROOF COMMUNICATION

As emergency services continue to explore the possibility of multi-channel methods of digital communication, our systems can guarantee quality connectivity. This will mean citizens can feel confident that however they choose to make emergency contact - via text message, social media or online portal - their issue will be addressed with the same efficiency as it would through an emergency call.

INTEGRATED, INFORMED, IN CONTROL: **CONNECTED** ENVIRONMENTS

DISCOVER THE SYSTEMS AND SOLUTIONS YOU CAN
LEVERAGE TO CREATE A CONNECTED ENVIRONMENT.

CONNECTED CONTROL ROOM

VIDEO SECURITY AND ACCESS CONTROL

Experience the power of our scalable video portfolio, empowering security teams with high-performance technology, including video analytics, video management software, security cameras and access control solutions.

CONTROL ROOM SOFTWARE

Helping handle calls, and records and evidence management more efficiently and effectively, our software supports enhanced operational performance and includes integrated voice and video streams.

AUTOMATIC NUMBER PLATE RECOGNITION (ANPR)

Discover the new generation of quick-deploy ANPR systems that combine sophisticated ANPR technology with consumer-grade ease of installation. Control room tasks are digitised as enhanced intelligence relays captured evidence to personnel, highlighting vehicles of interest and sharing pertinent information in real-time.

BROADBAND PUSH-TO-TALK (PTT)

Our broadband PTT solutions provide group communications that instantly connect teams across smartphones, tablets, radios and PCs. WAVE PTX can be deployed on-premises or in the cloud, and users can communicate between smartphones and our MOTOTRBO and TETRA radios. Our KODIAK platform can be network integrated and supports 3GPP Mission-Critical Push-To-Talk (MCPTT)-compliant deployments.

EVOLUTION OF LMR AND BROADBAND MCX

Choose the Critical Connect platform to enable wireline interworking across broadband and LMR networks. Harness a consolidated view of resources across multiple network technologies to simplify multi-agency emergency management.



CONNECTED VEHICLE

IN-CAR VIDEO

At the heart of our Connected Vehicle is the M500 in-car video solution. The M500 is a powerful video analytics engine that captures evidence to keep you safer and more efficient on the road. With a system that includes front, side and cabin cameras, an intuitive control panel and core processor, the M500 utilises the same VideoManager solution as the VB400 BWC system, to simplify and unify digital evidence management.

DIGITAL CAR KIT

The MXP600 car kit is a vehicle adapter designed to transform your MXP600 portable into a virtual mobile radio, with in-vehicle battery charging, hands-free operation and extended coverage.

CONNECTED OFFICER

BODY-WORN CAMERAS (BWCs)

Unquestionable sources of evidence, BWCs help to deter abuse against frontline staff. With audit trail features, encrypted data, recordings activated directly from a radio or weapon holster, and new 4G LTE streaming and video offload capabilities, our BWC solutions ensure frontline teams are both protected and accountable for their actions.

MOBILITY APPLICATIONS

Simplify and streamline disparate business processes for frontline operational users with our mobility applications. Experience the latest integration of PScore via Apple CarPlay, or with BWCs using Pronto. Additionally, our Operator Initiated Facial Recognition (OIFR) captures images of a subject in the field, then using image comparison technology, initiates a federated search to retrieve data on the subject.

RADIO

Built for the frontline, the MXP600 is a rugged, lightweight, fully capable TETRA portable radio - easy to carry and easy to use. Future-ready for MCX services over broadband, it boasts innovative audio technology and best-in-class coverage. To find out more about our range of radios, visit our devices and accessories area at 10 - Devices and Accessories.

CONNECTED AND PROTECTED

FIELD DEPLOYABLE SECURE COMMUNICATIONS

High Frequency (HF) and Very High Frequency (VHF) radios overcome the challenges of operating in remote areas not serviced by traditional infrastructure, facilitating the transmission of voice, email, fax and data signals without relying on any supporting infrastructure. Barrett Communications, a Motorola Solutions company, designs and manufactures a complete range of secure HF and VHF tactical communication solutions that are easily adaptable to particular environments, from man-pack, to mobile vehicle and base station configurations - all assisting to facilitate transmission in tactical situations. These communication products and solutions are used worldwide across a range of personnel - including border security, paramilitary police, coastguard and national defence forces.

DEVICES AND ACCESSORIES

We offer a broad range of portable and mobile devices, plus the accessories, network infrastructure and software required to run a critical two-way radio system. Whether your system utilises PMR446, TETRA, DMR, P25 or LTE technology, we have the solutions you need to support your operations.

CYBERSECURITY

The ActiveEye managed security platform provides continuous insights into security-relevant activity with auto-notifications, a daily email summary and monthly reports, and is based on a flexible architecture to evolve with modern IT systems.

MANAGED AND SUPPORT SERVICES

As technology advances, so does the complexity of your devices and networks, but supporting them doesn't have to be a burden. Motorola Solutions provides technical support, hardware repair and security updates, network monitoring and full system management.

LMR INFRASTRUCTURE

Our TETRA solutions offer secure, reliable and efficient communications, customised to meet the needs of a variety of users. From single-site to fully scalable nationwide systems, DIMETRA TETRA systems provide tough, resilient and efficient mission critical communications. DIMETRA X Core Edge Resilience preserves communication between dispatchers and the local site should connection to the master site fail, and DIMETRA X Core Deployable provides a dynamic communications solution for military organisations - from base to deployment.



For more information, visit motorolasolutions.com

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