DELIVERING REAL-TIME COLLABORATION ACROSS DEVICES AND NETWORKS

MOTOROLA

COORDINATE AND COLLABORATE IN THE MOMENT

Shorten response time, sharpen decision-making and keep frontline staff out of the office with collaborative technology that significantly improves the public safety experience. When devices, applications and networks work as one safety and efficiency can be improved

A public safety LTE network has the ability to provide command staff, intelligence operators and emergency responders with detailed, aggregated real-time information as an incident unfolds. Users can leverage this information to work safer and smarter, defusing risks before they become major incidents.

Today an increasing number of police forces are using body-worn cameras, tablets, smartphones and many other devices to communicate. What if these devices could collaborate with each other to deliver mission critical intelligence?

EXTEND THE REACH OF INFORMATION, FROM OFFICE TO VEHICLE TO INCIDENT

When emergency responders use collaborative, mission critical devices, they extend the reach of information that can be harnessed and turned into intelligence. Whether it's a police officer uploading body-worn video using his vehicle's LTE modem or an undercover detective remotely controlling a surveillance camera with a smartphone, all emergency responders can benefit from real-time mission critical collaboration.

No longer do devices operate in silos; they are part of an integrated ecosystem. That's why we're building future-ready, mission critical devices that communicate with each other seamlessly and have innovative capabilities such as fast proximity pairing using Bluetooth™ and applications that streamline information between all users and their various devices. Our solutions are purpose-built for the emergency services and engineered to rigorous benchmarks to deliver on their promise.

TODAY'S CONNECTED POLICE OFFICER

INCREASING REAL-TIME COLLABORATION, REDUCING TIME IN THE OFFICE

Whether today's officers are pursuing a suspect or working from a vehicle, they are part of a greater mission-critical context. Vehicles are their real-time mobile office, which become an extension of a greater network centered around the police area and command center. Their devices enable them to connect instantly, reliably and securely wherever they go, ensuring a real-time flow of information as an incident unfolds.

The officer on patrol is connected to the Emergency Services LTE Network. His video speaker microphone is paired to his ruggedised smartphone via Bluetooth. He confers with dispatch and collaborates with other officers using the push-to-talk button on his video speaker microphone.

The officer is dispatched to an incident via the CAD application. He is then able to monitor surveillance cameras in the area to better asses the situation he is approaching.

The officer approaches a suspect on the street. Other officers and dispatch can see the officer's location on a map in case he needs to call for backup. His body camera captures the interaction with the suspect.

Back at the vehicle, he uses his laptop to document incident details and uploads videos captured during his interaction into secure cloud storage, all via the vehicle's LTE modem. He accomplishes all his paperwork without having to drive back to the station.

TODAY'S MULTI-AGENCY RESPONSE

IMPROVING OUTCOMES WITH FASTER RESPONSE AND BETTER INFORMATION

Whether today's emergency medical teams are racing to an accident or operating equipment on scene, access to the right information can improve their response. Their devices connect them instantly, reliably and securely as they move, ensuring a real-time flow of information with dispatch and the hospital. Intelligent middleware enables the transfer of data, such as patient status and medical records, to improve their response, decision-making and ultimately, patient outcomes.

Fire and ambulance services rush to a traffic accident. On scene, the paramedic captures video of the accident using her body-worn camera. As a patient is tended to, the team uses their smartphones to capture and transmit patient vitals to the hospital.

The paramedic talks to dispatch and the ER team using her smartphone as the patient is carried to the ambulance. Even though the ER surgeon is off site, she can still communicate with him using push-to-talk voice and send photos of the scene and patient's wounds.

As the ambulance races to the hospital, an optimal route is determined using the GPS in their vehicle. The ambulance services team talks with firefighters and police back at the accident so they know to send another ambulance.

ACCIDENT & EMERGENCY

In the ambulance, video footage of the patient is streamed to the hospital using the vehicle LTE modem. Before the ambulance pulls up, the ER team has detailed information about the patient so they can begin treatment quickly.

IMAGINE THE FUTURE OF EMERGENCY SERVICES. WE'RE INNOVATING IT NOW.

INTELLIGENT MIDDLEWARE POWERS APPLICATIONS ACROSS DEVICES AND NETWORKS

Motorola Intelligent Middleware is a powerful set of services at the core of this device ecosystem. Intellignet Middleware boosts your applications with new features such as location, mapping, group management and messaging, whilst ensuring seamless information flow between devices and users. Quickly bring different teams together to plan an effective group response or automatically share an officer's bio-metric information with dispatch to ensure their safety.

RUGGEDISED LTE SMARTPHONES ENHANCE SITUATIONAL AWARENESS

Ruggedised LTE smartphones address the unique requirements of public safety personnel by delivering the mission critical capabilities not available on consumer-grade smart-phones. Its user interface is customisable, role-based, and adaptive, making it easier to use in high-stress situations. Intelligent middleware aggregates and prioritises information to only present what is critical for the user, based on their current status and activity. It empowers frontline workers with the actionable intelligence they need for a more informed response and ultimately a safer outcome.

VIDEO SPEAKER MICROPHONES IMPROVE EVIDENCE COLLECTION AND PRODUCTIVITY IN THE FIELD

Dramatically increases situational awareness, information gathering and evidence collection in the field. A video speaker microphone delivers all the mission critical capabilities police officers, ambulance workers and investigators want in one exceptionally smart collaborative device. Unlike typical body-worn cameras, the video speaker microphone combines voice communications, real-time video, still images, voice recording and emergency alerting in one.

BIOMETRIC SENSORS INCREASE WORKER SAFETY

Monitors and wirelessly transmits responders' vital signs in real time via the Mission Critical Bluetooth on the smartphone. Fast, one-touch pairing makes it easy for multiple users to be monitored simultaneously for heart rates (BPM ranges), breathing rates and activity levels. For training or the fire ground, it can help alert command that first responders may be in danger.

SMARTBELT HOLSTER SENSORS ENHANCE CONTEXT AWARENESS

Tracks police tool holster status. As the officers draws a tool from their belt, such as a baton or Tazer, administrative personnel at the command center can be notified immediately. The status of these critical tools can help alert dispatchers and peers of vital events to help deter an emergency before it happens.

For more information on how Motorola is helping emergency services work better, smarter and faster through next generation technology, visit **motorolasolutions.com**.

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