



Safer fire and EMS

Protect and connect your department when every second counts

In the fire service, a routine call can escalate into a critical incident in seconds. In those moments, firefighters depend on reliable communication, actionable intelligence and proper coordination to respond safely and effectively.

With a safety and security ecosystem spanning communications, command and intelligence, Motorola Solutions helps fire departments stay connected, informed and coordinated so crews can respond with confidence and focus on what matters most: saving lives and protecting communities.



Today's fire service is more complex than ever, requiring agencies to maintain a constant state of readiness for a myriad of unpredictable and dangerous situations - from the reduced visibility of high-heat, rapid-growth structure fires to diverse medical emergencies and even large-scale, multi-agency incidents. As public safety expectations climb and resources remain constrained, our mission-critical ecosystem is designed to bridge the gap, helping ensure firefighters are equipped to operate with maximum safety and efficiency.

Whether responding to a routine fire call, medical emergency or unexpected scenario, our ecosystem helps departments improve outcomes for their firefighters and their communities:

Improved firefighter safety and accountability

By connecting personnel, command staff and dispatch through voice, video and data, teams gain greater visibility into conditions on scene. **Shared situational awareness** from alerting and status-check tools helps ensure firefighters are accounted for, supports informed command decisions and promotes safer operations on the fireground.

Reliable mission-critical communications and networks

Rugged systems and two-way radios provide clear, **dependable voice and data communications** between dispatch, command and crews. Built to perform in extreme environments, these networks enable reliable interoperability across agencies, inside structures and throughout dynamic incident scenes.

Faster, more effective emergency response and coordination

Integrated call-handling, dispatch and fire station alerting solutions help ensure the right resources are notified, mobilized and informed as incidents unfold. With seamless communication and shared information, departments can **respond faster and coordinate more effectively** from dispatch to the fireground.

Enhanced operational efficiency and situational awareness

By bringing together critical data, communications and video intelligence into a **unified operational view**, commanders and response teams gain better insight into incidents, resources and field conditions. This helps departments streamline operations, deploy resources more effectively and maintain awareness as situations evolve.



Discover our safety and security ecosystem for fire & EMS

Technologies designed to work together to help strengthen safety, everywhere.



APX two-way radios

Deliver clear, mission-critical voice communications built for the extreme, high-noise conditions of the fireground. With durable design, exaggerated ergonomics and additional LTE and satellite connectivity, responders stay connected when it matters most.



Drones

Provide rapid aerial awareness with real-time video that helps incident commanders assess conditions, improve scene safety and support informed decision-making.



Digital vehicular repeaters

Improve portable radio coverage for firefighters while keeping them connected to the network with small and rugged radio base stations.



CommandCentral Aware

Identify and share critical intelligence faster with situational awareness software that unifies all of your real-time data and video streams into a common operating picture.



Mach Alert Fire Station Alerting

Instantly notify crews of incoming calls with clear, intentional alerts, tones and visual indicators, helping responders get on the road faster while reducing stress and keeping their focus on response.



Computer-aided dispatch

Coordinate emergency response from dispatch to arrival on scene with integrated call handling, mapping, resource recommendations and real-time incident information.



APX Personnel Accountability

Maintain real-time visibility into firefighter status and location, helping incident commanders conduct faster PAR checks and enhance responder safety.



Built for every response and any situation

House fire



A 9-1-1 call is received from a citizen reporting smoke coming from the window of a home across the street.

VESTA NXT emergency call handling software automatically transcribes the call highlighting key words and the caller location to coordinate dispatch quicker.



With **Mach Alert** integrated into **PremierOne CAD**, the dispatcher quickly alerts the nearest fire station within a few clicks and deploys a drone to the location for additional awareness.

At the receiving station, Mach Alert advises of the issue type via specific alert colors and sounds.



The **BRINC drone as a first responder (DFR)** arrives prior to the first company, streaming video back to dispatch in **CommandCentral Aware**. Based on the drone feed, dispatch escalates the call and shares thermal image feeds with the arriving company to help pinpoint the hot spot of the fire.



On scene, incident command establishes a post using **CommandCentral Aware** for full awareness of the progressing fire and location of additional inbound resources to coordinate the safest attack, while **Digital Vehicular Repeaters (DVRs)** and **SmartConnect application service for APX radios** provide the entire fireground with enhanced LMR coverage, ensuring reliable communication within the dense structure and back to dispatch.



As firefighters enter the structure to conduct search and rescue, their **APX NEXT XN** remains their lifeline for vital communication with adaptive noise cancellation for clear audio, enhanced ergonomics and voice controls for ease of operation, and SCBA voice amp integration for close proximity announcements.

Simultaneously, **APX Personnel Accountability** allows incident command to monitor firefighters' status perform automated rollcalls, and distribute alerts for safer operations.





Medical emergency

A 911 call reports a possible cardiac arrest at apartment residence.

VESTA NXT Call Transcription and Call Translation

Quickly translates non-English call for telecommunicator to take appropriate action.

Computer-Aided Dispatch (CAD) and APX NEXT Smart Applications

Dispatcher delivers precise emergency location, text based details (e.g., apartment unit and building code) and pertinent medical details and updates directly to responding units, accessible on their radios and devices.

SVX Remote Speaker Microphone and Body Camera

Automatically translate conversations with the patient's family to overcome language barriers, ensuring clear communication and accurate information gathering.

SmartConnect

Ensures reliable communication back to dispatch and other units while inside the residence, overcoming limited LMR coverage in the building.

Wildland fire and natural disasters

A fast-moving wildfire is reported on the edge of a community.

Rave Alert Mass Notification System

Allows emergency response teams to quickly notify the community of the fast-moving fire with multi-modal emergency warnings and evacuation instructions.

Critical Connect

Establishes a secure interface for interoperable voice and data sharing between the fire department and mutual aid partners across disparate networks.

Drones

Provides rapid aerial oversight, streaming live video and thermal imaging to help commanders assess fire conditions and direction of spread.

APX NEXT Radios

Maintains a communication lifeline in remote areas with limited coverage via satellite connectivity and NIFC-compliant clamshell battery packs for continuous operation over extended periods.

Personnel Accountability and Smart Applications

Automates responder tracking and status monitoring to ensure crew safety during chaotic fireground operations.

CommandCentral Aware

Unifies location data, mapping, and video feeds into a common operating picture for coordinated resource management.





Mayday

During an interior fire, a mayday is issued as a floor collapses, leaving a firefighter separated and incapacitated during the evacuation.

APX Personnel Accountability

Allows command to quickly issue an evacuation. Provides incident command with real-time visibility into firefighter status, oxygen levels and location. Incident Command is able to open up the downed firefighters mic to communicate directly or listen for audible clues to support rapid intervention and safe rescue.

APX NEXT XN and SmartLocate

Ensures clear, reliable communication, radio location and alerts throughout the fireground when a Mayday is called.

CommandCentral Aware

Consolidates personnel location, alerts and incident data into a single operational view, enabling command to coordinate rescue efforts and track RIT progress in real time.

Take fire and EMS safety and operations to the next level

Discover how Motorola Solutions helps fire departments improve safety, coordination and response through our safety and security ecosystem:

www.motorolasolutions.com/en_us/solutions/fire-ems.html



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