APX NEXT XE

FOCUSED IN THE *EXTREME*

MOTOROLA SOLUTIONS

APX
NEXT *XE*

**ALL-BAND P25
SMART RADIO**

KEEPING YOU CONNECTED
IN THE MOMENTS THAT MATTER

Whether a routine call for service, or a multiple alarm emergency, unforeseen challenges and life-threatening situations can present themselves at any moment. During any response, the focus, awareness and collaboration of everyone involved is crucial in keeping responders safe and ensuring a successful mission. At Motorola Solutions, it has always been our mission to equip first responders with the tools they need to stay connected and informed in the moments that matter - providing solutions that deliver mission-critical performance in any situation and in any environment. In these moments, your radio is your lifeline: your instant connection back to your crew, to dispatch and to other resources.

APX NEXT XE, our revolutionary P25 Smart Radio is our next step in advancing this lifeline. Exaggerated controls, extreme ruggedness and advanced audio capabilities ensure mission critical performance even in the most demanding environments, while LTE capabilities and Smart Application Services bring a new layer of intelligence to the field helping crews and commanders make more informed decisions.

In this brief, explore how APX NEXT XE and its Smart Application Services keep various agencies, command-level staff, and individual responders connected, informed and focused during multiple incident scenarios: from routine medical service calls to advanced multi-agency responses.

MISSION-CRITICAL DEVICE, ABOVE ALL ELSE

Your radio is your lifeline, above all else. You must rely on your radio to hear and be heard no matter what. With APX NEXT XE, there is no exception. Built ultra-rugged, with advanced audio capabilities, APX NEXT XE delivers unmatched performance even in the harshest of conditions, so in the moments that matter, you can be confident that when you press your PTT, you'll be connected. Your call will be heard.

EXTREME PERFORMANCE, ULTRA RUGGED

Rugged to the core. Ready for firefighters to operate in the most extreme environments. Exaggerated controls, now paired with a tough touchscreen to work with or without gloves and withstand great physical demands. IMPRES 2 batteries keep your lifeline powered for up to 18 hours. The result - a radio that works when and where you need it, whether in a hurricane, structure fire or sandstorm.

ADVANCED AUDIO

APX NEXT XE builds on the class-leading APX audio technology with advanced audio performance and sophisticated noise-reduction capabilities, including improved intelligibility, automatic volume leveling and advanced noise suppression. These advances fortify the most important thread of your lifeline: ultra-clear voice communications. No matter where you are or how you speak, you can be confident that you'll hear and be heard clearly.

Performance antennas improve comfort and wearability

Radio shown with optional 7/800 stubby antenna

Exaggerated hard controls, protected against accidental activation

High Dynamic Range microphones, for outstanding audio capture

Mission-critical touchscreen: rugged, usable with gloves, readable in all lighting conditions

Oversized display sleep/wake and home button

Exaggerated emergency button

Large color top screen displays critical information at a glance

Exaggerated ViQi button

Exaggerated PTT button

UL Division 2 Standard 4400 mAh battery, with 5650 mAh high-capacity option

3 programmable side buttons

APX NEXT *XE*
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SMART APPLICATIONS, BRINGING INTELLIGENCE TO THE FIELD

APX NEXT XE brings mission-critical radios to a new level- bringing new capabilities to the frontline through smart applications built right into the radio designed specifically for public safety.

LTE enabled, APX NEXT XE offers a platform of application services to augment data from across the public safety landscape — including radio, broadband, video, public and private data sources — and delivers it to first responders. With the application services, first responders are able to have new information readily available in the field, and streamlined for public safety use.

Our application foundation is designed for extensibility, with feedback from you. New capabilities and functionalities are continuously created and can be seamlessly added to your radio fleet as your needs evolve.

SMARTCONNECT

Stay connected to your P25 radio system even when outside of P25 coverage. SmartConnect maintains your P25 voice and data communications by automatically switching between P25 and broadband, routing PTT voice communications over the stronger of the networks without user intervention, while maintaining LMR talk groups and functionality.

SMARTLOCATE

Location service that routes GPS information over broadband for greater accuracy, scalability, and speed, giving others a more precise, near-real time status of radio location. SmartLocate automatically triangulates radio location using nearby cell towers and WiFi access points for improved accuracy when indoors.

SMARTMAPPING

Empower your public safety teams to collaborate and coordinate better. See your location, find an address, drop waypoints and stay in touch with the situation. View the location of other units and firefighters at a glance. Quickly pinpoint colleagues in distress. Simply tap to communicate.

SMARTMESSAGING

Turn your radio into a multimedia toolkit. Securely share texts, images, videos and voicenotes across your extended team - either with individuals or groups on other radios or smartphones.

SMARTPROGRAMMING

Radio software updates can be accepted anytime, anywhere utilizing the higher speed bandwidth and extended coverage of the LTE network.

VIQI: YOUR PUBLIC SAFETY VIRTUAL ASSISTANT

ViQi VOICE CONTROL: Operate your radio using simple voice commands. From switching channel and zone, to adjusting volume, simply press and hold the ViQi button and speak into the mic.

ViQi VIRTUAL PARTNER: A secure cloud service allows you to use voice commands to run database queries for quick access to information — for fast, secure and eyes-up intelligence.

MEDICAL RESPONSE CALL

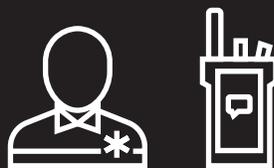## CONNECTED AND FOCUSED WHEN SITUATIONS ESCALATE

In the fire service, most calls do not involve responding to an actual structure fire. EMS responses and miscellaneous service calls are routine and increasingly common activities for most fire departments. However, even in what may appear to be a routine call, mission critical communications and mobile access to information are as important as ever - both for operational efficiency, and for responder safety in the event an unexpected situation arises. In this scenario, see how the APX NEXT XE and Smart Application Services keep responders connected and situationally aware during a routine EMS call in a low-rise apartment.

NEVER MISS A TRANSMISSION, EVEN IN BUILDINGS WITH LIMITED COVERAGE

While finishing their transfer to the ER, the paramedics get dispatched to a new call of an unconscious male in a nearby low rise apartment. Despite being in the hospital known for limited radio coverage due to the building's dense construction, the APX NEXT XE is able to automatically route the radio transmission over the available LTE network using **SmartConnect**, allowing them to receive the call and confirm back to dispatch.

QUICK, NECESSARY INCIDENT DETAILS AT YOUR FINGERTIPS FOR EASY REFERENCE

Dispatch shares the incident address, building code, floor, victim description and image of the building with the medical crew for quick reference upon arrival via **SmartMessaging**. As the crew arrives at the correct floor, they find the unconscious male with a noticeable wound to his forehead. While tending to him, the paramedics find a weapon sticking partially out of his pocket and the man soon awakens and begins to resist, quickly becoming violent in his delirious state.

MAINTAIN YOUR FOCUS WHEN A SITUATION ESCALATES

The paramedics radio to request police backup. With **ViQi Virtual Partner**, they are able use their voice to quickly and frequently query the approximate location of the officer en route while keeping their hands free and eyes on the violent patient. Upon arriving at the scene, the officer deescalates the situation and de-arms the individual. While medics tend to his wounds, the officer runs a query on his driver's license using **ViQi Virtual Partner** to find that the man has a warrant out for his arrest. The man is then taken to the hospital and arrested after he is released from medical care.

RESIDENTIAL STRUCTURE FIRE

IMPROVED COMMUNICATION AND COORDINATION ON THE FIREGROUND

In any structure fire, whether a single family residence or large commercial property, incident information, proper allocation of resources and effective teamwork are critical components for a safe, successful response. From the incident commander, to fire fighters in the hot zone, to incoming units, everyone must do their part, both individually and as a team to ensure a positive outcome. In this scenario, see how APX NEXT XE allows various personnel to operate and communicate effectively during an escalating structure fire in a two-story residence.

INCIDENT COMMANDER

IMPROVING RESOURCE MANAGEMENT ON THE FIREGROUNDS

In the midst of an escalating structure fire, the fireground can soon become a stage for chaos. The organization of resources available is crucial for gaining control of a fire and successful extinguishment. With **SmartMapping**, an Incident Commander (IC) can see the precise location of firefighters on scene with a real time, big picture map of the area. He has instant visibility of who is inside and outside the building, and whether they are operating on the alpha, bravo, charlie or delta side. With this view, he is able to better coordinate resources in staging, and better account for those engaged in the firefight.

ACCOUNTING FOR EVERYONE ON SCENE QUICKLY AND EFFICIENTLY

When conducting a roll call, the IC sends a tactical alert to each radio at once using the **APX Personnel Accountability** application on the MDT, prompting each firefighter to acknowledge by simply pressing the PTT button.

IMPROVED COORDINATION OF ADDITIONAL RESOURCES AND CREWS

Meanwhile, as the crews at the scene work to control the growing fire, the IC is able to track the location and approximate distance of additional inbound resources, identified by varying icons on the SmartMapping application as he escalates the alarm. From this view, he taps the icon of an inbound engine to initiate a private call and inquires about the amount of water carried by the engine to better position it at the scene.

LOUD AND CLEAR AUDIO IN ANY ENVIRONMENT

Despite the intense noise and commotion on the fireground, IC is able to communicate loud and clear with these inbound units, as the advanced audio and noise cancellation technology of APX NEXT XE and XVE500 RSM nearly blocks all background noise while intelligently amplifying and regulating the volume of the IC's voice during his transmission.

FRONTLINE FIREFIGHTER

IMPROVED RADIO FUNCTIONALITY AND OPERATIONAL EFFICIENCIES WITH VOICE CONTROLS

As additional resources arrive on the scene, every second counts. While the firefighters focus on their assigned tasks, they quickly and effortlessly adjust the volume of their radio and switch to the designated fireground channel using voice commands with **ViQi Voice Control** as they grab their necessary gear in preparation to enter the building.

PROTECTING MISSION-CRITICAL VOICE WITH EXTREME DURABILITY

Communication on the fireground is essential and must be effortless when focusing on the greater task at hand. Outside of the fire, it's your greatest resource. Inside of the fire, it's your lifeline. This communication must never be broken, but on the fireground, there is no telling what unpredictable circumstances may present themselves. You need to know that your radio is going to hold up to the conditions that you're in. APX NEXT XE is designed to withstand extreme heat, water submersion, dust and excessive impacts and drops, allowing various crews to maintain reliable communications as they work together to resolve the incident safely.

COMPLEX, MULTI-AGENCY RESPONSE IN POPULATED LOCATION

ELIMINATE COMMUNICATION BARRIERS DURING LARGE SCALE RESPONSES

While large-scale disasters and complex, multiple alarm, multi agency emergencies are uncommon, they are an unfortunate reality that every public safety agency must be cognizant of and prepared for. There is no substitute for proper planning and preparation, but the right technology and equipment when used in conjunction with preemptive planning can help mitigate the severity of such large scale disasters, and improve your ability to render the situation safe. In this scenario, see how APX NEXT XE is used throughout various aspects of a complex emergency, putting necessary information in the hands of responders, while eliminating communication barriers between various agencies and crews when responding to a rapidly spreading fire in a city's convention center.

1 A 4-alarm fire breaks out during an auto expo at a large convention center, centrally located in the downtown area of a mid-size city. While the exact origin of the fire is unknown, four neighboring fire departments and all surrounding patrol units are dispatched to the scene.

2 ## DISPATCH SHARING LOCATION CHECKPOINTS AND INCIDENT VISUALS

With fire crews en route, dispatch continues to receive new incident details including reported location of the fire origin and spread, as well as a clip of the scene submitted by a citizen. The dispatcher then drops mapped waypoints to better direct fire crews and officers toward particular focus areas and broadcasts the video clip to responders en route.

SmartMapping and SmartMessaging

Law Enforcement arrives at identified waypoints set by the dispatcher at each of the building's exits where they work with the convention center staff to safely evacuate the building, and clear way for incoming fire crews.

SmartMapping

3 ## FORWARDING INCIDENT VISUALS AND PTT WITH DISTANT SME

Upon reviewing the video clip from dispatch on the way to the scene, a responding chief identifies the presence of potentially hazardous materials that appear to be on fire. He quickly radios the on-duty haz-mat chief and forwards him the video clip so he can mobilize the hazardous materials team and initiate their immediate response.

SmartMessaging

The haz-mat chief receives the responding chief's transmission despite being at a meeting in the next town over and outside of the city's LMR coverage area. He confirms the involvement of the chemicals that are on fire due to the color of the smoke and begins to coordinate with the responding haz-mat team on how they need to handle the situation.

SmartMessaging / SmartConnect

4 ## IMPROVED DECISION-MAKING & RESOURCE ALLOCATION

The first-in engine arrives shortly. Upon viewing the SmartMapping map on his radio, the commanding officer sees a ladder truck is en-route and nearby. He quickly assigns the incoming ladder truck upon arriving on the scene to the roof to perform ventilation.

SmartMapping

6 ## RADIO UPDATES ON THE FLY FOR OUTSIDE CREWS AND MUTUAL AID

A neighboring haz-mat crew responds to the scene to assist with the burning chemical situation, but they don't have the fireground channel being used at the incident available in their APX NEXT XE radios. Dispatch recognizes the shortfall and is able to quickly update their codeplugs over LTE while en-route to the scene.

SmartProgramming

7 ## IMPROVED COORDINATION OF PATIENT TRANSPORT

As medical crews begin treating the injured, it becomes apparent that coordination is needed in the transport of the patients to surrounding hospitals. Dispatch is able to assist in sending a complete list of which units are to transport to which hospitals, saving time in coordinating who goes where and possibly saving lives.

SmartMessaging

8 ## MUTUAL AID STAYS CONNECTED TO LOCAL SYSTEM AS EMERGENCY DEESCALATES

As the incident deescalates, responding agencies from neighboring departments are able to provide status updates back to their local dispatch centers via SmartConnect. Despite being outside of the normal radio coverage, local agencies and mutual aid companies were able to keep their dispatch centers informed through the exchange of voice and data, helping gauge the right response to the right areas.

SmartConnect

5 ## SMARTLOCATE FOR ACCURATE RESOURCE LOCATION INFORMATION

As the ladder truck splits their crew to ventilate the roof and conduct a primary search, both dispatch and all APX NEXT users get a more frequent update on the relative location of each firefighter both in and out of the building, keeping their organization of resources flowing smoothly and ensuring everyone is accounted for.

SmartLocate

YOUR RADIO IS YOUR LIFELINE, CONNECTING YOU TO YOUR CREW AND KEEPING YOU INFORMED IN THE MOMENTS THAT MATTER

With APX NEXT XE, your lifeline is built on a future ready platform, ready to evolve when your needs evolve, bringing increasing intelligence to the field and right into your hands. New capabilities and radio functionalities can be seamlessly added. Your crews will continue to experience improved situational awareness and accelerated workflows no matter if it's during a seemingly routine call or large scale incident.

To experience the next level in mission-critical communication and how APX NEXT XE can improve your field intelligence contact your Motorola Solutions Account Representative, or contact us online.

motorolasolutions.com/apxnextxe

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