



# ONE RADIO. MULTIPLE BANDS. INSTANT INTEROPERABILITY.



West Licking Joint Fire District enhances mission-critical interoperability and simplifies communications with Motorola's APX™ multiband radios.

## SITUATION

**The West Licking Joint Fire District (WLJFD) requires instant interoperability to provide crucial services to its coverage area.**

The WLJFD serves multiple townships, two cities and one village spread out across central Ohio, and in order to communicate across multiple bands, firefighters and battalion chiefs carried two, or sometimes even three, different radios. Chief David B. Fulmer outlines these problems clearly, "We needed to solve an interoperability issue, to streamline our radio communications and to enhance our communications infrastructure to adequately deal with our evolving environment."

## SOLUTION

**Motorola Solutions introduced the WLJFD to the APX 7000 portable and APX 7500 mobile radios.**

Motorola's APX radios solved the WLJFD's problems by allowing personnel to carry one radio that could operate on multiple bands, letting them communicate instantly with everyone from bordering county fire crews to hospitals and focus on what matters most. Chief Fulmer describes the benefits APX has provided. "Being in a geographic area where three counties need to cooperate on a daily basis," he says, "and being in close proximity to Columbus, the 15th largest city in the country, requires us to have a robust communications platform that is affordable, flexible and expandable. The APX portfolio provides for all three."

## RESULT

**APX multiband capability for the Chief and first responders enables each to communicate seamlessly with just one radio.**

Assistant Chief Kenneth Matthews, of WLJFD, sums up the benefits of the APX radios simply, "Even with multiple territories using different bands," he says, "APX lets us use only one radio to switch back and forth. Now we can monitor multiple channels with one radio and coordinate the fire scene between on-site crews, dispatch and everyone else."

## CUSTOMER PROFILE

### Organization

- West Licking Joint Fire District
- Licking County, Ohio
- Over 36,000 citizens served
- 109 square miles of coverage
- 4,500+ incidents responded to last year
- Three Administration Chiefs
- Three Prevention Officers
- Three Battalion Chiefs
- 51 full-time firefighters/paramedics
- 40 part-time firefighters

### Motorola Solution

- APX 7000 multiband Project 25 (P25) portable radio
- APX 7500 multiband P25 mobile radio

### Solution features

- Instant interoperability across multiple bands.
- One radio operates on 700/800 MHz and VHF bands.
- Clearer audio and optimized glove-friendly controls.
- Seamless cross-network communication (including ASTRO® 25, ASTRO 3600, VHF and Smartnet™) is provided between fire, dispatch, hospitals, emergency crews, bordering county fire departments and more.

## CASE STUDY

WEST LICKING, OH JOINT FIRE DISTRICT



**“APX radios have much better transmit quality and overall better audio quality. When you’re at dispatch and the battalion chief is on the scene with APX, his communication is a lot clearer and louder than users with other radios.”**

Kenneth Matthews, Assistant Chief of West Licking Joint Fire District

### INTEROPERABILITY IS KEY

The task for the WLJFD is a daunting one: How to cover 109 square miles of territory and communicate efficiently with the agencies that assist in that coverage. Steven Stauch, Vice President of Sales for Motorola partner B&C Communication has worked closely with WLJFD for years and understands their difficult situation.

“WLJFD is located in the middle of an area that falls between disparate radio systems,” Stauch says, “with 700/800 MHz to the west and VHF to the east. In this scenario, many firefighters and chiefs needed to carry two radios to facilitate communications and mutual aid response on either system.”

### ONE RADIO, MULTIPLE BANDS

The APX 7000 P25 portable radio gives firefighters and first responders the interoperability to communicate instantly across any two of the following frequency bands: 700/800 MHz, VHF, UHF Range 1 and UHF Range 2.

Assistant Chief Matthews speaks to this benefit. “When you have to juggle two or three radios,” he says, “it changes your focus from responding and coordinating the fire scene to simply trying to communicate. The APX radios let the incident commander focus on the fire instead of worrying about communications.”



## CASE STUDY

WEST LICKING, OH JOINT FIRE DISTRICT

### GLOVE-FRIENDLY CONTROLS

The APX 7000 features a number of innovative features that allow firefighters from the WLJFD to easily control their radios, even in the heat of the moment and while wearing gloves. The large color display, eight-character top display and enlarged keypad all help to make mission-critical communications more efficient and more accurate.

“These radios are incredibly user-friendly,” Assistant Chief Matthews says. “The display screen is clear and bright, and we really like that. Plus, the controls are much easier to use than previous radios we’ve dealt with. Now we can adjust the volume and switch channels without a problem, even with gloves on.”

### BEST-IN-CLASS AUDIO

Even when a response is coordinated and efficiently implemented, fire scenes are notoriously loud environments. “There’s noise coming from all around during a response,” Matthews says. “You’ve got trucks running, equipment running, background noise and a lot of talking. Plus, you have interference from other channels and communications.”

The APX 7000 is the loudest Motorola portable radio available on the market featuring dual speakers and dual microphones, which work to provide superior audio quality that makes it easier for users on both ends to communicate effectively. “APX radios have much better transmit quality and overall better audio quality,” says Matthews. “When you’re at dispatch and the battalion chief is on the scene with APX, his communication is a lot clearer and louder than users with other radios.”

### FUTURE READY

In addition to the immediate benefits the APX 7000 and APX 7500 radios have provided for the WLJFD, they also support both P25 frequency division multiple access (FDMA) and P25 time division multiple access (TDMA) technology.

Knowing these radios will support future technologies is key for fire departments like WLJFD, as they need to communicate across multiple systems throughout central Ohio (including ASTRO® 25, ASTRO 3600 and Smartnet™) and also get the most out of their investments. “These radios are really designed so they’ll be applicable for quite some time,” Matthews says. “We’ll be able to use the radios for a long period and really get the most out of them.”



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### ONE RADIO MAKES ALL THE DIFFERENCE

The APX 7000 portable and APX 7500 mobile radios have helped the WLJFD communicate efficiently, allowing them to respond to and coordinate fire scenes like never before. The ability to operate on multiple bands with one radio means they can quickly communicate with dispatch, hospitals, fire departments from bordering counties and other agencies without having to juggle two radios.

In addition to first-hand experiences of these benefits, Assistant Chief Matthews has heard nothing but great things about the APX radios. "Firefighters are pretty critical of the radios they use," Matthews says, "and I've heard nothing but good reports on the APX radios. As time goes on, we'll attempt to transition our radio inventory to all APX radios."

Chief Fulmer clearly explains how APX radios have positioned the West Licking Joint Fire District to serve the area, both now and in the future. "This platform will provide expandability for the district to grow and modify the way in which it communicates and utilizes the available technology within the Motorola system."

For more information, please visit us on the web at  
[www.motorolasolutions.com/apx](http://www.motorolasolutions.com/apx)

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