

Fayette County 911

Radios that Fayette County 911 will accept on to the new system (And additional notes regarding each radio)

While some of the radios listed in this document are available in a NON DISPLAY model, Fayette County will not allow a NON DISPLAY model to be programmed onto the system.

Currently Fayette County 911 has approved use of radios from Motorola, EF Johnson, and Kenwood on the radio system. The ICORRS Technical Committee (ICORRS= Inter County Regional Radio System which consists of Westmoreland Co, Indiana Co, Armstrong Co, Fayette Co, and Somerset Co) is currently evaluating radios from multiple vendors to provide more choices to our radio users. The ICORRS Technical Committee is currently in communication with and in process of obtaining demonstration units for our testing purposes from: Harris Communications, Tait Communications, and Relm Communications. As more information becomes available from the evaluation process, this document will be updated.

Display only models that have no ½ keypad or no full keypad on the radio will be accepted for all users, however, the Display only models are not recommended for Police, Fire, or EMS due to limitations of how to control changing zones on the radio.

Regardless of which vendors equipment your department decides to purchase, it is recommended that if a radio has an orderable option for Extreme Noise Reduction, it is recommended to purchase that option to help the radio operate better while transmitting when there is a lot of background noise (chainsaws, sirens, etc. . .)

Additionally- Fayette County is implementing a feature referred to as OTAP. This allows Fayette County 911 to make programming changes to the radio “over the air”. Thus a minor change to radio programming will no longer require you to bring a radio in to the 911 center. Initial programming will still need done by the 911 Center but future changes can be done remotely. Other counties may not be implementing this as a requirement.

With regards to encryption- (Primarily for Law Enforcement units)
The 911 Center will support **AES Encryption** from portables/mobiles back to the consoles.

ADP Encryption is available in some of the radios listed below. If a department purchases ADP Encryption and chooses to use ADP Encryption, the 911 Center –WILL NOT–be able to monitor or communicate with the folks running ADP Encryption on a talk group. Radios with ADP encryption can still be operated without Encryption to talk to the 911 Center and other users.

If your department chooses to purchase encryption, please have the sales rep handling your order contact Tony or Guy to confirm that the proper encryption is selected for you. (This may also require a phone conversation with your department to outline encryption options available)

Also-There are many options available on these radios. The presence of an option in a radio does not mean that Fayette County and the infrastructure on the trunking system can support it. 2 Examples are GPS enabled radios, and Radio to Radio Text Messaging. While these options can be purchased on a radio, the equipment on the trunking system necessary to utilize those functions is not

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present on the system. If in doubt as to whether an option will function, please contact the EMA/911 Office to verify.

Following pages detail what we know and what radios have been evaluated and known to work on the new radio system.

In the case of all mobiles listed here, there are many configurations and options available, such as dash mount, remote mount, and multiple control head set up, amplified speakers, and such. Please consult with your sales reps for each radio vendor to ensure that you are purchasing what is needed for your vehicles and your organization.

In the case of all portables listed here, there are many configurations and options available. There are a variety of speaker mics, battery options, and charger options available. Please consult with your sales reps for each radio vendor to ensure that you are purchasing what is needed for your personnel.

All manufacturers listed below support AES Encryption that will be in use on the new system. Motorola and EF Johnson support data operations on P25 Trunking. To the best of Fayette County's knowledge, the Kenwood equipment does not support this function.

For more information contact the EMA Office @ 724-430-1277 and ask for Guy or Tony
gnapolillo@fcema.org talviar@fcema.org

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Motorola Products

Portable Radios

XTS1500- Permitted but only for Public Works / Non-emergency services users

XTS2500 Model 1.5-Permitted but not recommended for Police, Fire or EMS users

XTS2500 Model 2 & 3-Permitted for all users

XTS5000 (all models)-Permitted for all users

APX4000 Portable-Permitted but recommended for Public Works/Non-emergency services users. Please contact Guy or Tony at the 911 Center for additional information on this radio.

APX6000 (any model)- Permitted for all users

APX7000 (any model)- Permitted for all users

Mobile Radios

XTL1500- Permitted but not recommend for Police, Fire or EMS users

XTL2500 (all models, all heads)- Permitted for all users

XTL5000 (all models, all heads)- Permitted for all users

APX4500-Permitted for all users

APX6500-Permitted for all users

APX7500-Permitted for all users

Additional Motorola Notes:

The XTS5000 and XTL5000 are no longer available as new purchase from Motorola but are showing up on the used side.

Radios need flashed to support the following options:

700/800 MHz operation

Operation on a Motorola P25 Astro25 7.11 Trunking system

Packet Data

Over the air Provisioning /Over the air programming (OTAP)

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EF Johnson

Mobile Radios

There are 2 mobiles available from EF Johnson.

53SL ES mobile radios with either the Standard or the Lightning Control head

Standard Control head has 10 character display

Lightning Control head has 16 character display available and is easier to see in direct sunlight

Radio is approved for all users on the system although it is recommended to purchase the lightning control head to be able to have full channel name available on the radio display.

Portable Radios

VP600-Model II Half keypad

VP600-Model III Full keypad

VP900-Model II Half Keypad

VP900-Model III Half Keypad

ES51SL-Model II Half keypad

ES51SL-Model III Full keypad

The VP900 portables may be of interest to users bordering Washington and Greene County that run mutual aid into those counties. The VP900 portable is a multiband radio and will support operation on 700/800 MHz as well as VHF (150 MHz)

There is a no keypad version of the portables available and is not supported by Fayette County for operation due to channel capacity limitation.

Options that are needed at time of purchase on the above equipment:

For VP series equipment-

700/800 MHz operation

P25 Trunking

P25 Trunking Mobile Data

P25 Trunking OTAP

Recommended for Fire Service to have the Immersion Housing

For ES51SL Radios

700/800 Mhz Operation

P25 Trunking

P25 Trunking Mobile Data

P25 Trunking OTAP

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Kenwood

Mobile Radios

TK5910

Portable Radios

TK5410-K2 4 button keypad

TK5410-K3 Full Keypad Radios

The TK5410D version of these are acceptable as well

With Kenwood equipment, since Kenwood currently does not make a radio that works on the CURRENT TRUNKING SYSTEM, Fayette 911 has no way to evaluate the radios until the NEW RADIO SYSTEM IS OPERATIONAL. Should you have questions regarding operation of the Kenwood Radios on the P25 Trunking system, Fayette can put you in touch with representatives from both Westmoreland and Armstrong Counties to discuss further.