

NEXT GEN SAFE-T P25 UPGRADE



Integrated Public Safety Commission

Current Status - Capacity



Statewide 800 MHz Communications System

- Designed in 2000, limited to 64,000 IDs
- At system capacity – no room for additional users
- This negates the tremendous interoperability opportunities and savings that the SAFE-T network provides

Current Status - End of Life



- Manufacturing end dates occurred in 2013, and vendor contracted support will run out at the end of 2017. This will render the system "not" upgradeable and repairable only as long as end of production parts are available.

The Benefits of P25 Technology



- Integration with neighboring States (Michigan, Ohio, Illinois) as well as the City of Louisville.
- Twice the user capacity of the existing network.
- The ability to add additional tower sites, thereby improving coverage.

The Benefits of P25 Technology



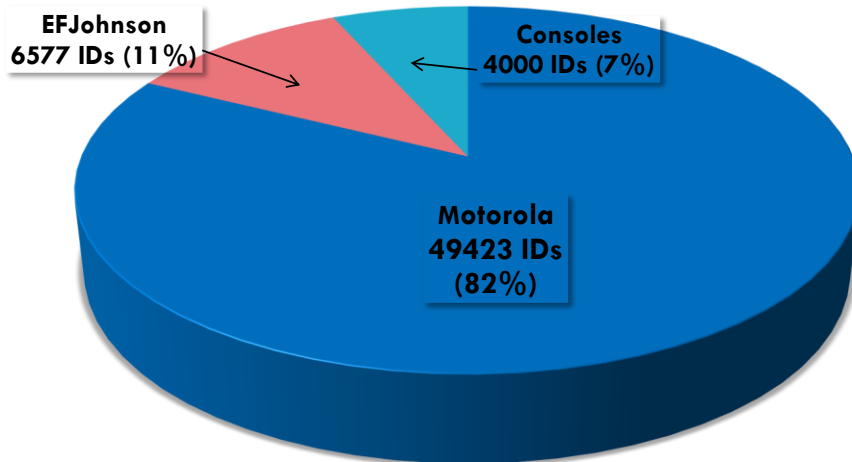
- The ability to purchase radios from multiple manufacturers, thereby ensuring cost competitiveness and more choice in products.
- An environment ideal for the convergence of voice and data (National Public Safety Broadband/LTE/FirstNet) in the future

P25 Planning



- IPSC , Office of Management and Budget (OMB) and the Department of Administration conducted a detailed review, analysis and procurement process
- Several state agencies, including the Indiana Department of Homeland Security, Indiana Criminal Justice Institute, and the Indiana Department of Health, were intimately involved in the process, demonstrating unprecedented cooperation and forming partnerships to reach a goal that will benefit public safety professionals for decades to come.

Current SAFE-T System IDs



Other Considerations



- Radios will need P25 software (firmware) to operate on the upgraded P25 system
- As part of the contract, Motorola providing flash kits to local agencies at no cost. EF Johnson reduced their cost for flash kits from \$380 to \$160.

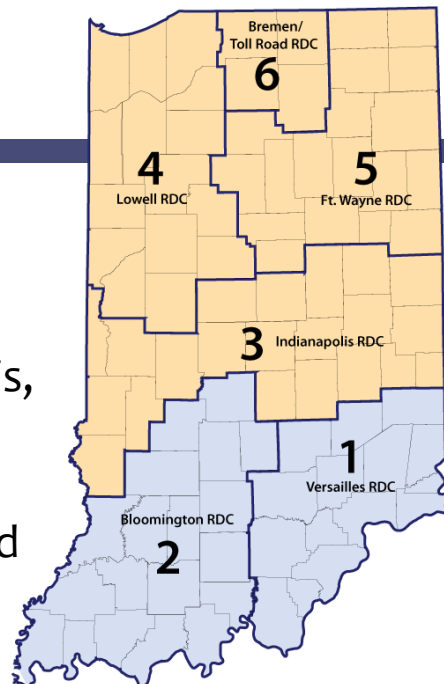
The Bottom Line



- The P25 system is based on the same principles that drove the success of the current statewide system – voluntary participation, **no user fees**, and partnerships that allow for maximum savings.

Migration Phases

- Build-out will be done by ISP Dispatch Regions starting with Versailles, Bloomington, Indianapolis, Lowell, Fort Wayne then Bremen/Toll Road.
- Build-out to be completed in 2 years.



P25 Details



- Moving from 4 Zones on the 4.1 system to 2 Zones on the P25 system. New Cores will be located at Indianapolis and Bloomington. Cores were the first items purchased.
- All radios within the build-out ISP District will need to be upgraded and re-programmed before any of the sites can be upgraded.

P25 Upgrade



- Some radios are analog only and not capable of being upgraded to P25.
- Substantial discounts and trade-ins are available for select Motorola and EF Johnson radios.

P25 Upgrade



- Other vendor radios can be used on the system, but they must meet the requirements of the Compliance Assessment Program and must be secured with a hardware system key. IPSC is working with the Department of Administration on this project.
- We are recommending that agencies consult with IPSC prior to purchase

P25 Upgrade



- A new base-line template will be developed to assure that a core group of talkgroups and conventional channels are programmed into every radio to enhance regional and statewide interoperability.

P25 Upgrade



- The upgrade will be a fork-lift replacement of equipment at each site. The 4.1 and P25 systems will not be run in parallel. That means that as the upgrade progresses across the State, users will either be on the 4.1 system or the P25 system. Dual programming will be necessary
- Depending on the number of sites in a region, it will take 24 to 48 hours to convert the sites to P25.

Costs to Locals



- Reprogramming and template fees
- IPSC is working with IDHS and other state agencies to identify any and all grants that can be used to help ease the costs to locals