

Pennsylvania Statewide Radio Network

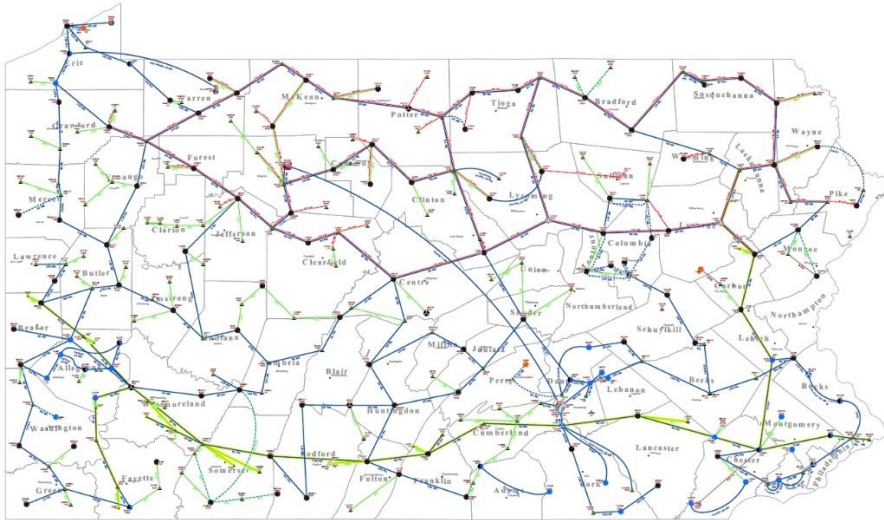
An Industry-Standard P25 Phase II System for Public Safety Radio

PA-STARNet: Overview and Fact Sheet



pennsylvania

STATEWIDE RADIO NETWORK
PA-STARNet



Capabilities: Coverage is greater than 97% in every county for mobile users. Voice and data traffic flow in a robust Internet Protocol network throughout the state.

Participants: 22 commonwealth agencies; both houses of the legislature; federal, county, and municipal agencies; utility and public transit companies. Also, Warren, Columbia, and Montour Counties have adopted our P25 network as their own.

Infrastructure: 150 towers with highly reliable equipment; a second zone allows for up to 150 more towers; redundant controllers and gateways; network operations center; 288 microwave links crossing 3,648 miles forming a statewide MPLS network backbone with secure network access at two gateways.

Interoperability: Connects to all county 911 centers. Local agencies with P25 systems are finally able to easily interoperate or simply join. Interoperability technology includes external radio system gateways, internetworking, and frequency band overlays.

Interconnections: The public-safety-grade microwave network enables critical interoperability in the Commonwealth. More than 30 counties use STARNet microwave for public safety network connectivity. An ISSI connection between our network and that of Westmoreland County enables shared roaming.

Background: In 2016 the P25 Land Mobile Radio contract was awarded to Motorola Solutions to upgrade from a proprietary technology to P25 public safety open standards. The cost to upgrade the statewide land mobile radio infrastructure was \$44.5 million. The upgrade project never wavered from being on time and on budget.

Investment & Savings: The legacy proprietary radio system will be phased out in 2021, but the investments in high-profile radio towers and the statewide microwave network were leveraged in the new P25 system. Yearly savings from decommissioning old sites has reached \$1.9M and will eventually exceed \$5M.

Responsibility: The Statewide Radio Network Division, Bureau of Communications and Information Services, Pennsylvania State Police, develops, builds, operates, regulates, manages, and maintains PA-STARNet, as per Management Directive 245.15.