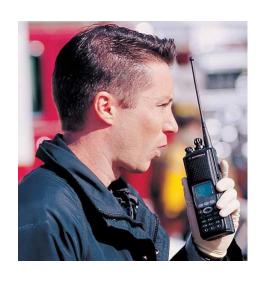
Motorola's ASTRO 25 IP Platform









Digital, coordinated, and integrated communications

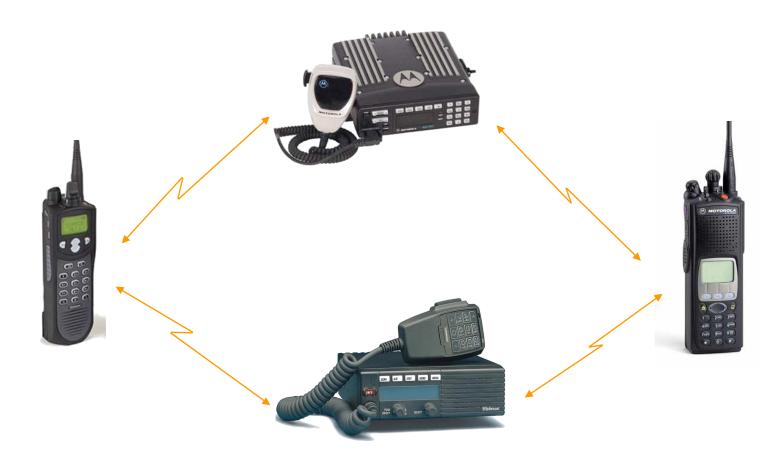


Project 25 Standards



P25 is the standard for digital public safety networks

Project 25 Standards



Interoperability with equipment from multiple vendors



Project 25 Standards

- Public safety standard for interoperability
- New capabilities with digital operation
- Meets FCC (12.5 kHz) narrowband requirements
- Choice of multiple equipment manufacturers





Everything Is Becoming Digital









Why Digital Radio?

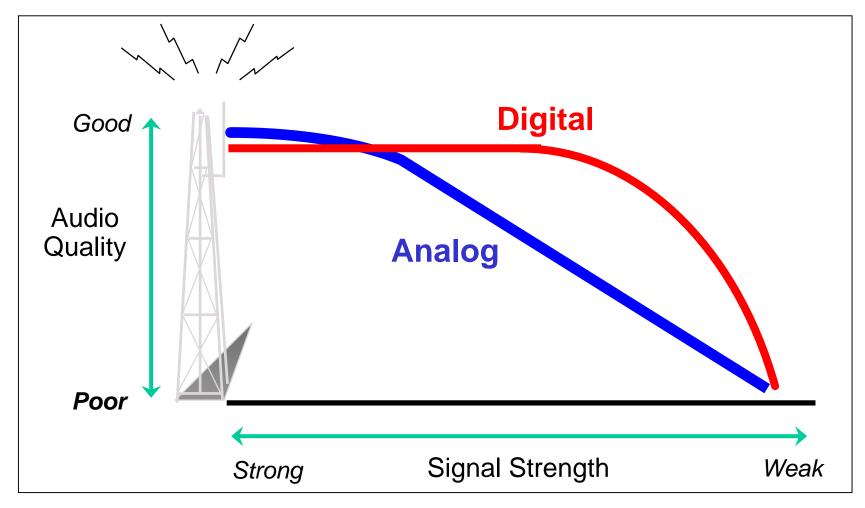




Digital radios mean better coverage



Improved Audio Quality

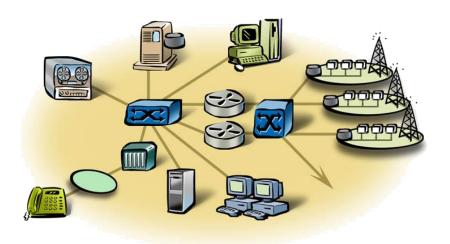


Digital radios mean better coverage



Motorola's ASTRO 25 IP Platform

- Mission critical IP architecture
- Optimized for public safety operation
- Security of a critical network



RF sites and consoles connect to the IP core



Mission Critical Communications



Network Security

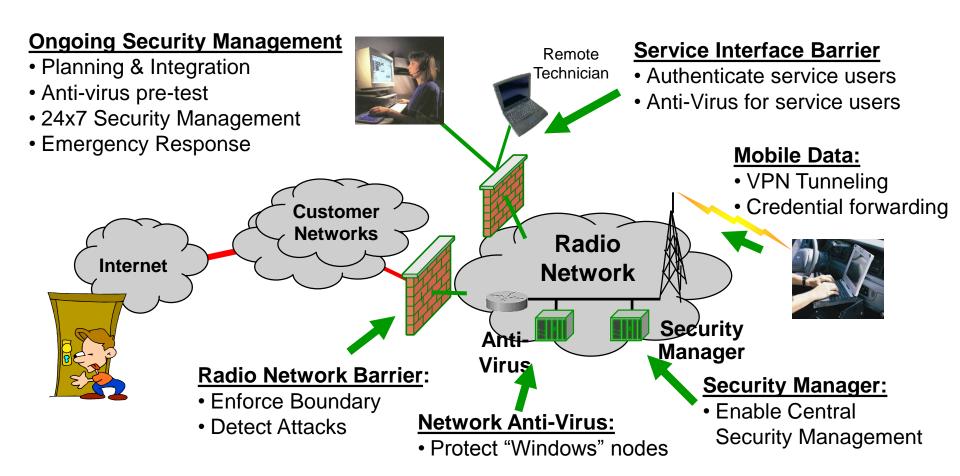
Information Assurance (IA)

- Antivirus
- Authentication
- OS Hardening
- Perimeter Security
- Event Logging
- Router Encryption
- MAC Port Security
- Back-up and Recovery
- Voice Confidentiality

Hackers can threaten IP radio networks



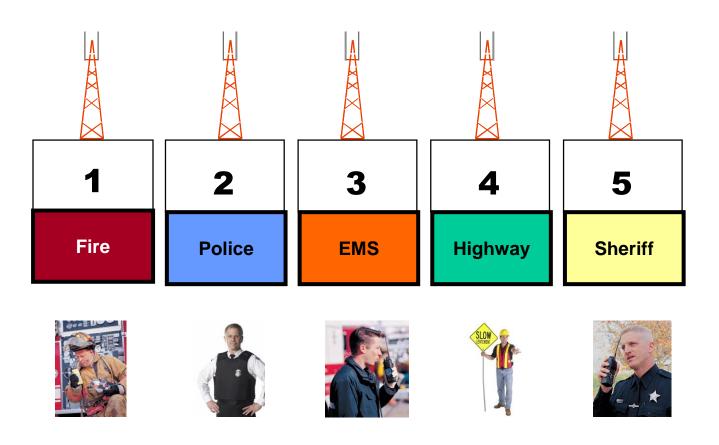
Radio Network Security Requirements



Protection from threats inside and outside the network

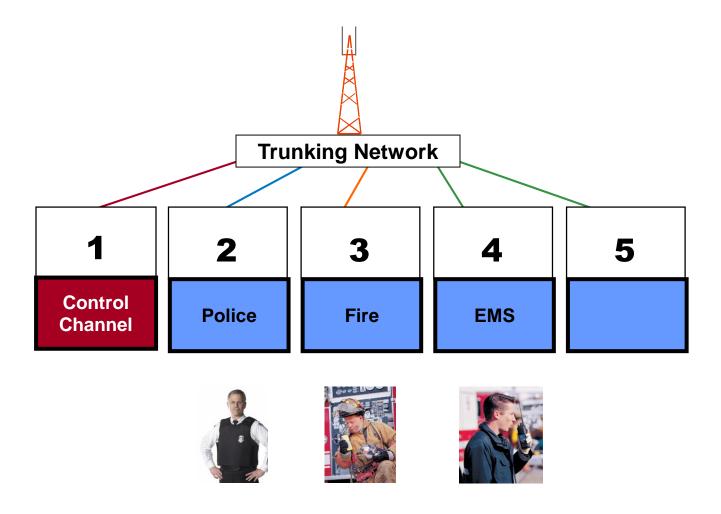


ASTRO 25 Conventional Network

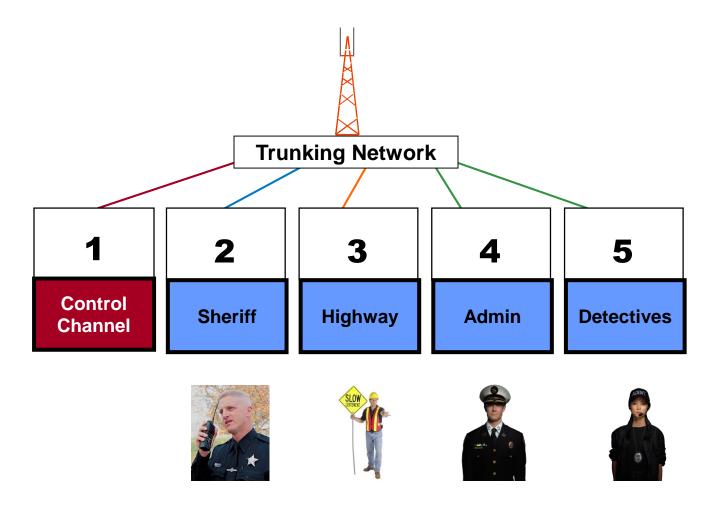


Individual channels for each department



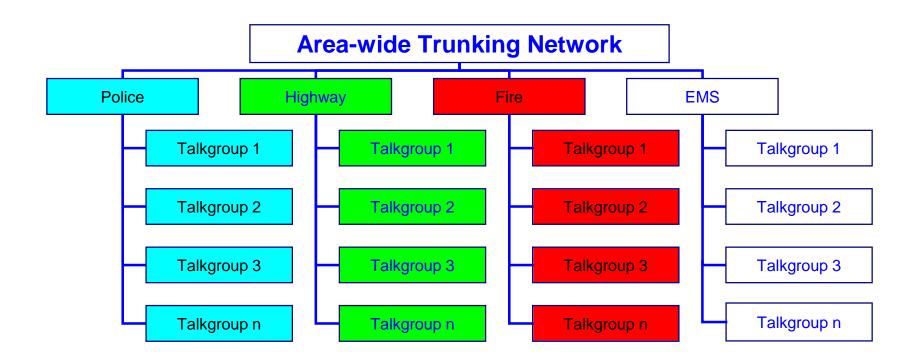


Shared network with all local or regional agencies



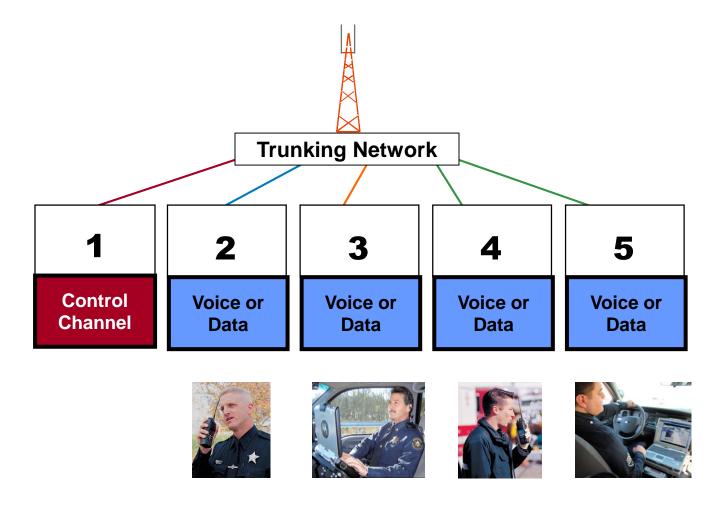
Better efficiency with fewer busies





Dozens of talkgroups with a few channels



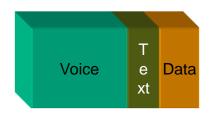


Voice and data are integrated with ASTRO 25



ASTRO 25 Integrated Voice and Data

- Integrated with trunked network
- Data speed of 9.6 kbps
- Enables the following applications:
 - Over-the-air radio programming
 - Optional GPS location
 - NYSPIN inquiry capability
 - Text messaging service



Voice and data in one radio



Programming Over P25 (POP25)



ASTRO 25 Network

- Increases user productivity
- Reduces total cost of ownership
- Communications maintained during programming



Radio software is updated over-the-air



ASTRO 25 GPS Location



- Improved efficiency and response times
- Better resource management and allocation



Location information on a secure, private network



ASTRO 25 Text Messaging

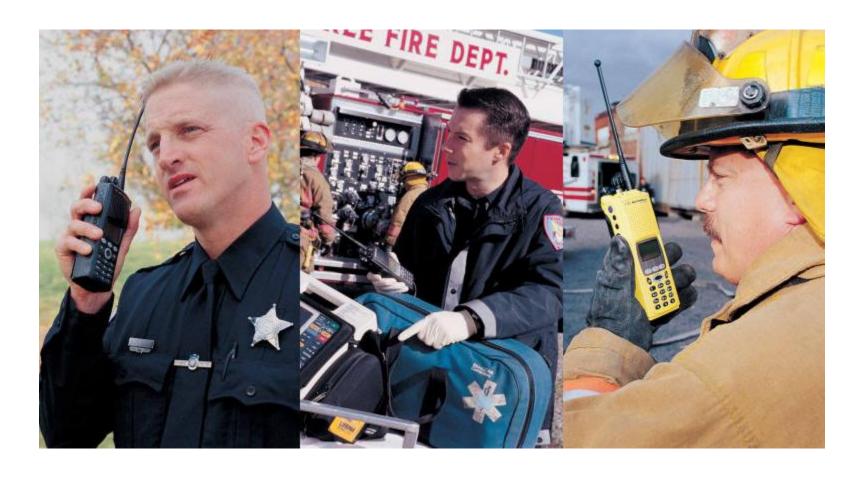
- Receive silent dispatch messages
- Query external databases
- Text to other devices
- Control of security cameras from portable radios



Connectivity and messaging to / from public networks



Motorola's ASTRO 25 IP Platform



Mission critical communications for public safety users

END

Extra Slides below – Time Permitting



ASTRO 25 Express

- P25 Phase 1 voice solution
- Single Site Only
- G-Series Controller & Stations
 - 18 Channels
- CSS for configuration
- Basic Information Assurance
- Wireless Console
- GenWatch3 for Network Management
 - Over the Air (control channel) monitoring and performance reports
- No HPD, no IV&D, no MOSCAD, no Simulcast, or no Interconnect
- Ships pre-racked from factory

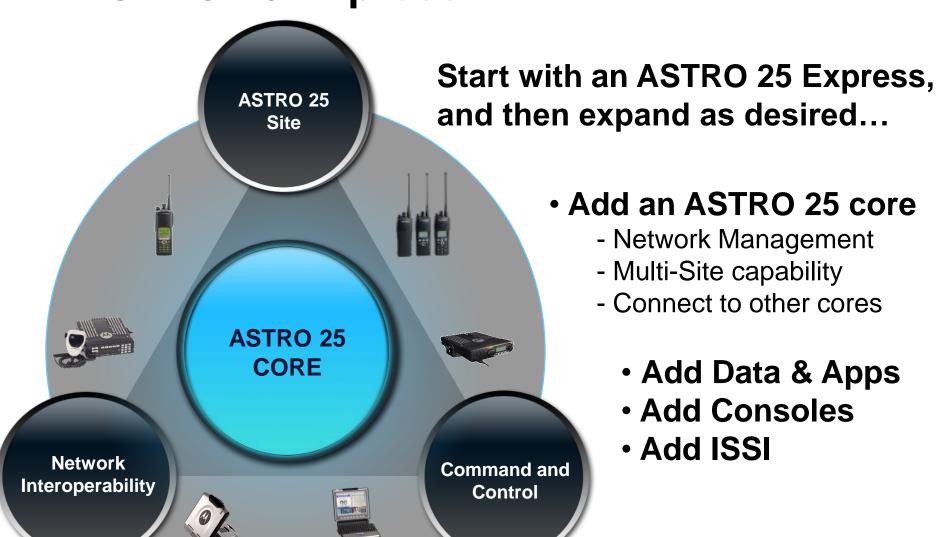


Introducing ASTRO 25 Express



A cost-effective,
single site P25 voice system
rapidly delivered and deployed
with the capability to grow
within the ASTRO 25 portfolio
your needs change

ASTRO 25 Express



Industry Leading P25 Products







- Positioning APX versus XTS/XTL
- Dual-sided design dual displays, dual speakers & dual microphones
- Intelligent Lighting –radio status information with multiple colors
- Improved Ergonomics PTT, Side Buttons & Keypad
- Mobile (APX 7500)
- Accessories



Positioning APX



Feature

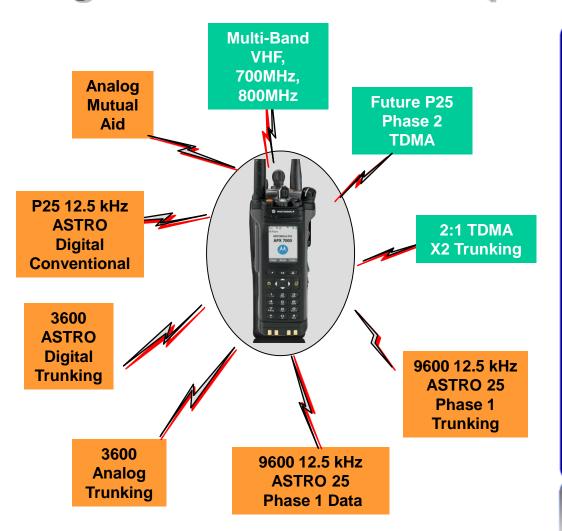
 APX reinforces the Subscriber portfolio with market leading features.

 APX is not a replacement for XTS/XTL Product Line.

 For High Tier Users who need TDMA for Spectrum Efficiency and/or Multiband Capability.



Highest Level of Interoperability



- Provide the migration path from FDMA to TDMA technology.
- Migration to P25 Phase 2 TDMA.
- Backwards compatible with existing P25 and Motorola legacy (SN/SZ Systems).
- Multiple RF Bands provide highest level of interoperability.

