



NATIONAL PUBLIC SAFETY TELECOMMUNICATIONS COUNCIL



National 700 MHz Public Safety Wireless Broadband Network Requirements

Ralph A. Haller Chair, NPSTC 122 Baltimore Street Gettysburg, PA 17325 Phone (717) 338-1505 Email ed@fcca-usa.org

NPSTC is a federation of organizations whose mission is to improve public safety communications and interoperability through collaborative leadership.



- It's all about moving data
 - Medical/EMS: disease database, emergency treatment
 - Fire fighting: blueprints, hazardous material database, etc.
 - Robotics: automated inspection, intelligence gathering
 - Environmental monitoring
 - Collaboration of resources
 - Surveillance
 - Traffic management
 - Law enforcement database access



- 1. Internet access wired to wireless to wired
- 2. Connectivity between networks broadband/private land mobile radio/satellite
- 3. VPN access to home or other specialized data servers
- 4. SMS/MMS messaging
- 5. Location information (mobile)
- 6. LMR gateway(s)



- 7. Multiple modes voice, data, video
- 8. Broadband dynamic backbone for connectivity
- 9. Access to Public Switched Telephone Network (PSTN)
- 10. Dynamic virtual network creation
- 11. Security/Authentication/Encryption
- 12. Survivability and Reliability of Network
- 13. Service in remote areas
- Note: Broadband is not a replacement for traditional Private Land Mobile Radio (PLMR) systems



- 1. Wireless devices meet LTE standards
- 2. Network-wide IP assignments
- 3. Dynamic bandwidth assignments
- 4. Equipment authentication across networks
- 5. Survivability of Network(s)
- 6. User authentication
- 7. Handoff between networks
- 8. Access to applications
 - a. Mapping
 - b. Documents
 - c. Information



- 1. Network standards are national
- 2. Public/Private partnerships permitted
- 3. Public safety priority access on shared spectrum networks
- 4. Bandwidth management based on priority of communications

FCC/Congressional Actions – Wireless

- FCC issues rules for national/local/ build-out and issues waivers in the interim
- FCC allows PSBL to sublicense local/regional entities
- Congress/FCC makes D-Block available to public safety
- Congress/FCC allows national and local public/private partnerships
- Congress/FCC allows network access to all responders including critical infrastructure, federal, and others as defined by regional network administrators



FCC/Congressional Actions – General

- Funding
 - Access to Universal Service Fund
 - Grants for broadband development
 - Spectrum auction proceeds
 - Tax benefits for carriers who support public safety
- Resource sharing
 - Access to federal resources
 - Networks
 - Satellites
 - Mobile assets
 - Spectrum