



# International Wireless Communications Expo

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# Agenda

- PSHSB Overview
- PSHSB Key Priorities
- Nationwide Interoperability Timeline
- Emergency Response Interoperability Center
- Interoperability Third Order
- Interoperability Fourth Further Notice of Proposed Rulemaking



# PSHSB Overview

- Bureau Established in 2006
- Primary Mission Essential Function

*"Ensure the continuous operation and reconstitution of critical communications system and services."*
- Strategic Goal

*"Communications during emergencies and crisis must be available for public safety, health, defense, and emergency personnel, as well as all consumers in need. The Nation's critical communications infrastructure must be reliable, interoperable, redundant, and rapidly restorable."*



# Emergency Response Interoperability Center

- Created in April 2010 with the mission of establishing a technical and operational framework that will ensure nationwide operability and interoperability in the deployment and operation of the 700 MHz public safety nationwide broadband wireless network.



# Nationwide Interoperability Timeline

- April 2010
  - Creation of the Emergency Response Interoperability Center (ERIC)
- May 2010
  - Waiver Order granting approval of 21 petitions
- December 2010
  - Interoperability Framework Order for waiver recipients
- January 2011
  - Interoperability Third Report and Order and Fourth Further Notice of Proposed Rulemaking (Order and FNPRM)



# Interoperability Order

- Adoption of a single common air interface, Long Term Evolution (LTE)
  - At least 3GPP Standard E-UTRA Release 8 and associated EPC – necessary to ensure backwards-compatibility
- Adoption of key LTE interfaces
- Stay Commission rules
  - Requiring a Mandatory Public-Private Partnership for the deployment and operation of the public safety broadband network



# Interoperability Fourth FNPRM

- An architectural vision for a nationwide network and interoperability to address:
  - Components of the Nationwide Network
  - Regional Network Characteristics
  - Supporting Voice and Data Communications
  - Roaming Authentication and Interworking Functions
  - Nationwide Backbone Network
  - Nationwide Services and Capabilities
  - Evolution



# Interoperability Fourth FNPRM

- Definition of Interoperability
- Open Standards
- Technology Platform and System Interfaces
- System Identifies – Network ID (PLMN ID)
- Roaming Configurations
- Network Interconnectivity
- Incumbent Narrowband Operations
- Public Safety Broadband
- Next-Generation 911 Networks



# Interoperability Fourth FNPRM

- Priority Access and Quality of Service
- Mobility and Handover
- Applications
- Security
- Interconnectivity with Public Safety Legacy Networks
- Conformance Testing
- Interoperability Testing



# Interoperability Fourth FNPRM

- Out-of-Band Emissions & Related Requirements
- Performance
- Network Capacity
- Robustness and Hardening
- Coverage Requirements
- Coverage Reliability
- Interference Coordination



# Interoperability Fourth FNPRM

- Network Operations, Administration and Maintenance
- Reporting on Network Deployment
- Devices
- In-Building Communications
- Deployable Assets
- Use of the Public Safety Broadband Network for Fixed Uses
- Secondary and Federal Use





Thank You!

Questions?

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