

Interoperability Board Public Workshop

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Current Scope of Work

- Standards, interfaces, guidelines; user equipment and device management; network evolution
- Mobility and handover; grade of service; prioritization and quality of service
- Security

Public Safety Legislation

- “develop recommended minimum technical requirements to ensure a nationwide level of interoperability for the nationwide public safety broadband network”

Public Safety Legislation

- “in developing recommended minimum technical requirements ... the Interoperability Board shall base the recommended minimum technical requirements on the commercial standards for Long Term Evolution (LTE) service”
- Significant responsibilities left to FirstNet

Governing Principles

- Adhere to “commercial standards”
- Enable FirstNet to maximize opportunities for public/private partnerships
- Ensure a robust RFP response
- Foster a competitive and diverse vendor environment
- Anticipate advances in technology

Governing Principles

- Preclude proprietary implementations and applications
- Account for roaming agreements with commercial providers

Board's Defined Scope

- Standards, Interfaces and Guidelines
 - How is vendor-level interoperability achieved or not in the commercial LTE marketplace, and what gaps need to be filled?
- User Equipment and Device Management
 - Other than FCC type acceptance, legislation directs NIST to develop list of certified devices and components. Any gaps?

Board's Defined Scope

- Network Evolution
 - Account for FirstNet discretion concerning implementation of new LTE releases
- Mobility and Handover
 - Need to support network-to-network LTE handovers

Board's Defined Scope

- Grade of Service, Prioritization and Quality of Service
 - Two levels of network management:
 - Physical network under the purview of FirstNet
 - Operational control enabled by FirstNet to permit local changes to priority and quality of service on a fluid and incident-by-incident basis

Board's Defined Scope

- Security
 - Need multiple layers of network and application security
 - Access to the public Internet should be available and limited, and quickly disabled if needed
 - Legislation includes national security restrictions and requires network safety, security and resiliency