Public Safety Communications Research Program

Located at the Department of Commerce Boulder Labs in Colorado

The PSCR Program is a joint effort between:

NIST’s Office of Law Enforcement Standards (OLES) and NTIA’s Institute for Telecommunication Sciences (ITS)
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DHS Office of Interoperability

- Public Safety LTE Broadband Requirements
  - Quantitative Launch Statement of Requirements
  - Public Safety Grade definition
  - LTE Console
- Modeling and Simulation
  - Network resiliency
  - Performance sensitivity
  - Small cell deployment
- Broadband Demonstration Network
  - Boomer cell deployment
  - RF Load testing
  - Indoor
- Security Research and Testing
  - Network interface and Mobile Application security efforts
  - Identity Management
- P25 CAP Transition
- Video Quality
- LMR to LTE Interface
- Customs and Border Patrol
• Project plans pending for:
  – Testing and Evaluation
  – Modeling and Simulation
  – Public Safety LTE Broadband Standards
• User travel
FirstNet

- **Testing and Evaluation**
  - Priority
  - Pre-emption
  - Quality of service

- **Modeling and Simulation**
  - Incident scenarios
  - Models for spectrum sharing

- **Public Safety LTE Broadband Standards**
  - Mission critical Push-to-Talk
  - Group communications efficiency
  - Direct mode

- **PTCRB**

- **ETSI Core Network and IOT**

- **Satellite investigation**
R&D Roadmap Workshop

• November 13-15, 2013

• Goal
  – Highlight needs for public safety broadband research and development (R&D) beyond the short term horizon (18-24 months) and begin to identify research areas that need to be developed over the long term (5-10+ years) in order for a public safety broadband network to fulfill its ultimate goals.

• Outcomes
  – Enhanced collaboration among the Public Safety, Public Sector, and Vendor communities
  – Identification of R&D areas that need to be developed to support fulfillment of National Public Safety Broadband Network goals
  – Input from the stakeholder community on prioritization of R&D efforts
  – Understanding of current efforts related to future broadband capabilities

• Next Steps
  – Data Analysis and Organization
  – Further Public Safety Input and Review
  – Roadmap Framework to be completed by early 2014
  – Updating Public Safety Scenarios
Thank You!

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For Additional Information: http://www.pscr.gov