Public Safety Broadband Network
FirstNet and Michigan’s Next Steps
What is Public Safety Broadband Network (PSBN)?

- What is PSBN?
  - It is defined as a single nationwide public safety broadband network based on the industry standard Long Term Evolution (LTE) technology, comprised of specific public safety allocated spectrum in the 700 MHz frequency band.
  - To allow first responders anywhere in the nation to send and receive critical voice, video and data to save lives.
  - To ensure all Americans can access emergency services quickly.
  - To revolutionize the way Americans are notified about emergencies and disasters.
  - To reduce threats to e-commerce and other Internet-based applications.
What is NPSBN...FirstNet

- What we know today
  - Nationwide Broadband Network For Public Safety named in the Middle Class Tax Relief and Job Creation Act of 2012
  - International standards based technology direction
  - In response to the 9/11 Commission Report
  - Foundational requirement for “D Block” reallocation to public safety
- Funded
  - Planning Funds - $135 Million
  - Implementation Funds - $7 Billion
- State Level Decision
  - Provide FirstNet Board Michigan’s requirements
  - Opt In / Opt Out
  - Operated by FirstNet Board
FirstNet Essential Facts

• FirstNet - First Responder Network Authority
• Congress created a new Federal authority within NTIA / Department of Commerce to control state & local first responder broadband communications. (H.R. 3630)
• Empowered to build and operate a nationwide public safety broadband network for state & local public safety agencies.
• Established a 15-Member Board selected by NTIA and appointed by the Acting Secretary of Commerce.
• FirstNet is expected to issue RFPs for a national core network and commercial carrier built and operated regional networks.
• First meeting of FirstNet Board will be September 25th and will be open to the public and webcast live on internet
• http://www.ntia.doc.gov/firstnet-public-meetings
The Hardware

- High Resolution Video Camera
- Dedicated PTT VoIP Client
- Rugged, Sealed Ultra-Bright Display
- Bluetooth
- 6 Radios in ONE Device
  - Band 14 Public Safety LTE
  - Band 13 Public Carrier LTE
  - 3G EVDO
  - CDMA
  - Wi-Fi 802.11 A/B/G/N
  - GPS
  - Mission Critical
The Applications

- **National Public Safety Telecommunications Council (NPSTC) Broadband Task Force identified applications:**
  - Internet Access – Required
  - VPN Access to any Authorized Site and to Home Networks – Required
  - Access to Responders under Incident Command System (ICS) – Required
  - Status/Information “Homepage” – Required
  - Field-Based Server Applications – Required
  - Status/Information “SMS-MMS Messaging” – Required
  - Land Mobile Radio (LMR) gateways – Required
  - Location Based Data Capability – Desired
  - One-to-Many Communications across All Media – Desired
  - LMR Voice – Desired
  - PSTN Voice – Desired

- Applications will need to be more efficient than what we use today
- Security will need to be integrated with the network and the applications
Michigan Involvement

• Finalizing Statewide Interoperability Governance Board
  • Define Public Safety broadband strategic plan
  • Correlate Homeland Security Investments toward strategic plan
  • Identify duplicities in planning with parallel initiatives

• Participating in regional and national planning
  • Working groups with Ohio and Indiana expanded to entire 6 state FEMA region
  • FEMA Regional Emergency Communications Coordination Working Group (RECCWG)
  • Member of APCO Broadband Committee
  • Participating with National Public Safety Telecommunications Council (multiple committees)
  • Working with NTIA and NIST Public Safety Communications Research (PSCR) program
  • Involved with National Governors Association (NGA) for guidelines for all governors

• Public Safety Broadband Planning
  • Current team is core group of DTMB, MSP, AG and Governor’s office
  • Need of expanding to include local and tribal members, fraternal organizations, and IT leaders
  • Develop outreach and education materials; focused plan and statewide strategy
State and Local Implementation Grant Program (SLIGP)

- **Phase 1 deliverables:**
  1) Establish or enhance a governance structure to consult with FirstNet
  2) Develop procedures to ensure local and tribal representation when the State is consulting with FirstNet
  3) Conduct education and Outreach for all relevant stakeholders
  4) Identify public safety users for network
  5) Develop appropriate and standard MOU for Michigan to facilitate possible sharing of infrastructure with FirstNet
  6) Develop staffing plans to involve local and tribal stakeholders in a future data collection in consultation with FirstNet
  7) Prepare a comprehensive plan as part of Statewide Communications Interoperability Plan (SCIP) or a plan complementary and similar to the SCIP describing the public safety needs that you expect FirstNet to address, plus milestones

- **Phase 2 deliverables:**
  1) Used for additional consultation with FirstNet and planning to undertake data collection activities.
Michigan Activity

- Governor designated the State Chief Information Officer (CIO) to be the single point of contact for FirstNet
- Development of the grant application is completed and submitted
  - Peer reviews conducted
  - States to be notified by July
- Strategic governance definition initiated 11 months ago
- Leading regional multistate efforts in establishing questions and clarifications for FirstNet
- Involvement is required by local and tribal partners
Next Steps - Michigan

- Redefine Interoperability
- Update statewide governance
  - Identify regional governance for rollup to Statewide governance
- Identify Convergence
- Statewide Planning
- Create local, tribal, and state stakeholders for FirstNet user development
- Evaluate
  - Taxpayer Investments
  - Partnerships
The Challenges

• Governance
  • How can Michigan define a new governance model that incorporates a structured regional model?
  • Who has the control?
  • Who decides the strategy?

• Outreach and Education
  • Stakeholder planning involvement
  • Does everyone/will everyone from the end-users to those paying the bills understand what is happening now and what is planned for the future?

• Funding
  • Coverage to meet Michigan’s requirements
  • Sustainability of the system
  • End User purchase of devices and service fees

• Technology
  • LTE
  • Mobile and Portable Equipment
  • Security
  • Applications
What Should You Do Now?

• Get Involved

• Start thinking about your business changing
  • How will wireless broadband benefit?
  • What will you do differently?
  • Operationally, will your model change?

• Plan strategically for long term investments

• Educate your stakeholders in your community

• Be prepared for state and national surveys to develop benchmarks of activity currently underway and planned future activities.

• Get Involved
Questions

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