



www.firstnet.gov

FirstNet Update



Vicki Lee

Association Manager/PSAC Liaison

September 24, 2014 * Fairfield, California

Our History & Mandate



2004

Middle Class Tax Relief and

*"The First Responder Network
single public safety wireless link
necessary to ensure the
operation of the nationwide*



**increased assignment
spectrum for public
purposes.**

2011

Associations Supporting D-Block Reallocation

- | | |
|---|---|
| National Governors Association | National Criminal Justice Association |
| National Association of Counties | National Association of Police Organizations |
| National League of Cities | National Volunteer Fire Council |
| United States Conference of Mayors | National Troopers' Coalition |
| Council of State Governments | National Organization of Black Law Enforcement Executives |
| International City/County Managers Association | Association of Air Medical Services |
| National Conference of State Legislatures | Advocates for Emergency Medical Services |
| International Association of Chiefs of Police | Emergency Nurses Association |
| International Association of Fire Chiefs | National Association of Emergency Medical Services Physicians |
| National Sheriffs' Association | National Association of Emergency Medical Technicians |
| Major Cities Chiefs Association | National Association of State Emergency Medical Service Officials |
| Metropolitan Fire Chiefs Association | National Emergency Medical Services Management Association |
| Major County Sheriffs' Association | American Probation and Parole Association |
| Association of Public-Safety Communications Officials | National Association of Regional Councils |
| National Emergency Management Association | |
| International Association of Emergency Managers | |
| Police Executive Research Forum | |

Middle Class Tax Relief and Job Creation Act of 2012



- Public Law 112-96, enacted February 22, 2012, implements key priorities
- The law established First Responder Network Authority (“FirstNet”) as an independent authority within the National Telecommunications and Information Administration (“NTIA”)

Purpose	To create a nationwide, interoperable public safety broadband network
Network	Single nationwide network architecture
Technology	LTE: Advanced, proven technology
Spectrum	Reallocated 700 MHz D Block
Coverage	Nationwide, including rural, underserved areas
Funding	\$7B through spectrum auctions proceeds
Sustainability	Self-funded through fees
Governance	Specifications for the FirstNet Board and the Public Safety Advisory Committee (PSAC)

First Responders Deserve the Best Network



- FirstNet will ensure the development of a reliable and resilient broadband network that will provide nationwide coverage, even in the most remote regions
- The network must meet public safety's requirements and ensure priority and preemption during emergencies
- The network will provide access to applications and broadband services



Vision for Public Safety



The Long-Term Vision



Mobile Data Terminal -
FirstNet LTE Air Card



Mission Critical Data

Smart Devices
FirstNet LTE Service



Mission Critical Voice
Mission Critical Data

Specialty Devices
FirstNet LTE Service



Mission Critical Voice/Data

West, Texas April 17, 2013



It's out West Fire, The uh West Fertilizer is uh... one of their mills is on fire...there's uh heavy smoke coming out of the top of it.

>>Stand by, was just about to do that.

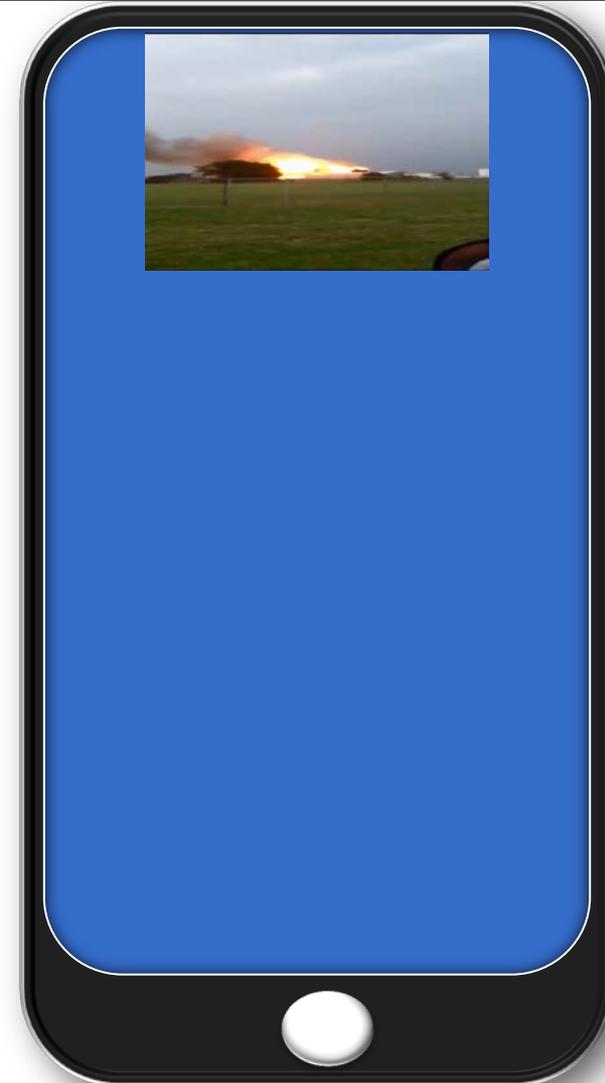
<Volunteer Fire Tone Goes Out>

>>...61, fire. 61, fire. We need you to respond to the West Fertilizer Plant. They have uh...fire out there. Again, West fire (unintelligible)...West Fertilizer Plant.

With Public Safety Broadband...



Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. The substance may be toxic to blood, gastrointestinal tract. Repeated or prolonged exposure to the substance can produce target organs damage.



Five Unique Coverage Categories



Unique Geography and Demographics Require Multiple Solutions for a Seamless Operation in CONUS and Non-Contiguous States and Territories



Wilderness



Rural



Suburban



Urban



**Dense
Urban**

March 2014 Roadmap Summary



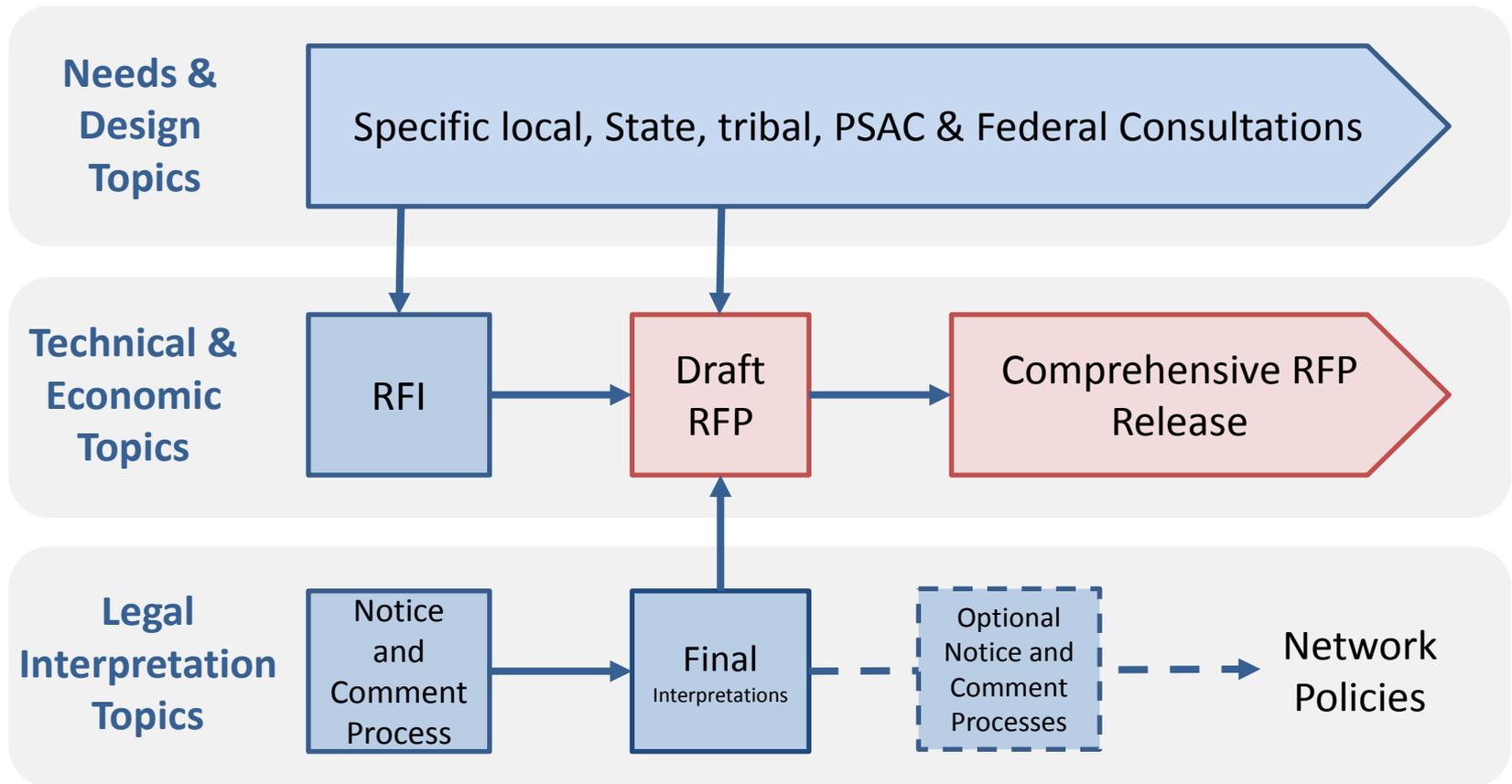
We are Here

...We want to make rapid progress for public safety, while balancing the need for robust design and cost-effectiveness. At this time, we believe the following milestones, over approximately the next year, should serve as appropriate checkpoints to ensure that we are on track within our roadmap to reach our goals:

- Initiate public notice and comment on certain program procedures, policies, and statutory interpretations;
- Release draft request for comprehensive network proposals for offeror comments;
- Release draft requests for certain network equipment and services proposals for offeror comments; and
- Begin formal state consultations.

As we travel along our program roadmap, we may determine that some of our assumptions are flawed, and change course accordingly. We may change the order of, or the actual roadmap milestones themselves as a result. Nevertheless, we believe we have charted a course to prove out a successful FirstNet for public safety....

How the Pieces Fit Together



Public Notice and Comment Overview



Public Notice and Comment Process Overview

- FirstNet publishes, via the Federal Register, a public notice containing certain legislative interpretations under the Act



- Public provides written comments and appears at any open meetings or hearings (30 days for comments)
- FirstNet issues final interpretations after considering comments, in a subsequent notice and/or in the draft and/or final RFP

This is Just a First Step

- Notice contains preliminary interpretations
- Final interpretations will still only determine outside legal boundaries
- Further detailed rules or policies within those boundaries may be narrower than legal boundary
- Important to maintain flexibility at this stage of program and refine approach as we progress



Example: *if the terms of the Act give FirstNet authority to serve a broad group of customers, FirstNet may nevertheless decide to narrow eligibility in order, for example, to preserve network capacity for public safety*

Initial Topics Overview

- Topics covered in the public notice:
 - Network elements, including “core” and “RAN”
 - Network users, including “public safety entity,” “secondary” and other network users
 - Permitted services
 - RFP standards for “open, transparent, competitive” process
 - Definition of “Rural” and substantial rural coverage milestones
 - Existing infrastructure sharing
 - Fees, including covered leasing fees

- The major issues related to state opt-in/out process will not be part of this Notice as they are not essential to the RFP at this stage – potential future notice and comment process topics



Who May Provide Comments

- Any individuals or organizations are free to respond to our public notice, and we anticipate at least the following categories of participants:
 - Traditional public safety entities
 - Telecommunications and information service providers, services vendors, equipment and infrastructure providers, systems integrators
 - Trade associations and various advocacy and advisory groups
 - State, local, tribal, and federal governments
 - Other commercial and government-owned entities that provide public-safety related or support services





FirstNet™

www.firstnet.gov

Request for Information Overview



Request for Information Introduction



- An RFI seeks input from interested parties regarding specific topics. It is a form of market research. In this case, we will:
 - Use the responses to understand industry capabilities
 - Revise FirstNet’s requirements in light of what industry can provide
 - Allow industry to provide meaningful input
- FirstNet has already issued several RFIs including:
 - May 2013 RFI on devices
 - July 2013 RFIs on, among other things, network partners, radio access network (RAN), and core network
 - November 2013 RFI on applications platforms

The RFI in the Acquisition Lifecycle



- Prior to the draft RFP issuance for a Comprehensive Network Solution, FirstNet will complete the following steps:
 - Draft the RFI/Statement of Objectives (SOO) (August/September)
 - Review RFP approach at Board meeting and approve RFI/SOO (September)
 - Release RFI/SOO (September)
 - Review RFI responses; meet with respondents
 - Industry Day



RFI Structure Outline



- Introduction
- Background
- Acquisition Approach
- Information Requested
- Questions Related to Certain Program Objectives
- Instructions to Respondents
- Appendix A - Glossary of Terms
- Appendix B - Draft SOO

Examples of RFI Questions



- Compelling and Competitive Pricing Packages
- Substantial Rural Milestones
- Speed to Market
- Priority and Preemption
- Integration of federal, state, tribal, and local Infrastructure
- Provisioning
- Service Level Agreements
- Customer Care, Billing, and Marketing

RFI Key Outcomes



- The RFI responses will support the development of a responsive and realistic (achievable) RFP
- The responses will help design a productive Industry Day closer to the release of the draft RFP
- The RFI may surface questions and answers that FirstNet hasn't asked or considered
- The RFI will contribute to the track record of a consultative, transparent, listening FirstNet



FirstNet™

www.firstnet.gov

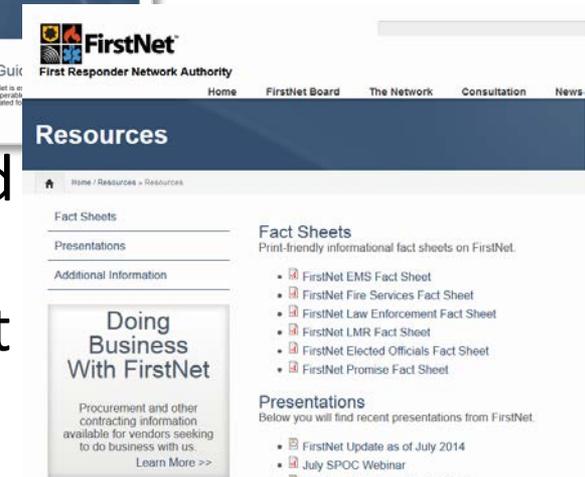
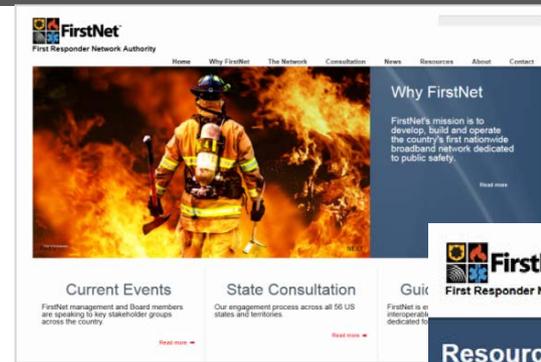
Outreach



Outreach and Communications



- FirstNet.gov website
 - Fact Sheets
 - Blogs
 - Presentations
 - Upcoming speaking engagements and current events
 - Board meeting materials and webcast



- Social media presence
 - Twitter @firstnetgov
 - LinkedIn
 - YouTube
 - <https://www.youtube.com/user/FirstNetGov>
 - Flickr
 - <https://www.flickr.com/photos/firstnetgov/sets/>



- Ongoing contact through weekly calls with the chair, review of materials, sharing of feedback from the field
- Steady schedule of speaking engagements at association events
- In-person meetings with the full PSAC twice a year
- Monthly conference calls with the PSAC Executive Committee
- Two new working groups – Tribal and Early Builder

FirstNet Regional Structure



The FirstNet operational outreach model aligns with 10 FEMA regions.

- 10 Regional Teams to:
 - Work with the state SPOCs to conduct outreach with the public safety community and support state consultation
 - Future focus:
 - Education and training
 - Outreach
 - Solution sales
 - Support
 - Account management
- 2 Nationwide Teams and 4 Public Safety SMEs to:
 - Gather input and requirements
 - Serve users



FEDERAL
TEAM

TRIBAL
TEAM



FirstNet™

www.firstnet.gov

State Consultation



Required State Consultation Topics

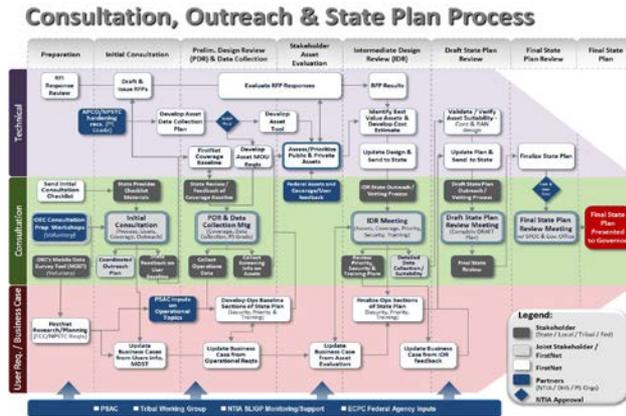


- Construction of a core network and any radio access network build out
- Placement of towers
- Coverage areas of the network, whether at the regional, State, tribal, or local level
- Adequacy of hardening, security, reliability, and resiliency requirements
- Assignment of priority to local users
- Assignment of priority and selection of entities seeking access to or use of the network
- Training needs of local users

Overview Of State Consultation Process



- Consultation is an iterative process, not a single event
- FirstNet will communicate the consultation process and necessary roles and responsibilities
- Consultation will focus on critical information and data
- Like consultation, plan development will also be iterative
- Consultation culminates with the creation of the state plan



Together, stakeholders and FirstNet will have engaged in a process that provides meaningful and thorough information for the state plans

Maryland July 29 Initial State Consultation Meeting Summary



- Attendees:
 - Governor O’Malley and Component Heads
 - Maryland Broadband Team
 - Local Public Safety Representatives
 - State Agency Members
 - FirstNet Acting General Manager and Key Staff

- Agenda Topics:
 - State Update
 - FirstNet Update and State Consultation Process
 - Users and Coverage
 - Outreach
 - Wrap-up and Next Steps



Maryland Observations



- Created opportunities for feedback from state team, as well as participants
- The 8 hour day became quickly filled by the agenda
- Agenda will be changed to have FirstNet frame the day's discussion before the state asks questions



- Diversity in attendees is critical
 - States need to invite and bring local public safety officials
 - Is there discipline diversity (e.g., fire, law enforcement, EMS, 9-1-1)?
 - Is there geographic diversity (e.g., metro, rural, urban)?
 - Is there jurisdictional diversity (e.g., state, local, tribal, federal)?

What Did We Learn About Maryland?



■ Coverage and Events

- Preakness Stakes provided unique backdrop to illustrate communications challenges

■ Users

- Incident-based eligible users should include fire, law enforcement, EMS, and emergency management
- Non-traditional public safety users need to be considered by FirstNet

■ Operations

- Local coordination is key for planned and unplanned events

■ Uniqueness of the state

- Maryland is unique in that it houses federal government offices (e.g., Federal Bureau of Investigation, National Security Agency, etc.) and many federal government workers live in Maryland

■ Cyber security is important

Location of Disaster Declarations since 2000.



Get Involved



- Contact your respective PSAC members to provide your input and feedback (<http://firstnet.gov/about/public-safety-advisory-committee>)
- Contact your state single point of contact (<http://firstnet.gov/consultation>) for updates on state activities and to ensure public safety participation on the governance body
- Participate in the RFI and public notice processes
- Contact Vicki Lee, Association Manager/PSAC Liaison, at 202-770-8204 or victoria.lee@firstnet.gov with questions and feedback
- Visit www.firstnet.gov, <https://www.youtube.com/user/FirstNetGov> and follow us @FirstNetGov on Twitter for updates, news and resources

Thank You



www.firstnet.gov
@FirstNetGov



FirstNet™