4G LTE for Public Safety: An Opportunity for Partnership

Sept 2012
Our Vision for Transforming Public Safety Communications (2002)

- Open standard commercial broadband technology
- Network built to public safety specifications in dedicated spectrum
- Common technology nationwide
- Real competition
Firstnet Summary

President Obama signed payroll tax extension into law on 2/22/12. Legislation includes spectrum and public safety provisions:

- **Broadcast incentive auction (up to 120 MHz to be auctioned) estimated to produce $24-36B:**
  - Funds D-block reallocation to public safety
  - Funds $7 Billion in public safety mobile broadband deployment
  - Funds $135 Million State & Local Implementation Grant Program
  - Funds up to $300 Million NIST R&D for public safety communications (MCVoLTE)

- **Public safety governance of nationwide mobile broadband network:**
  - FirstNet, new independent authority located within NTIA, may deploy/operate/govern nationwide network
  - States may “opt-out” of FirstNet network
  - FirstNet and States have sweeping public-private partnership, spectrum leasing/network capacity leasing authorities
FirstNet Deployment Timeline

2.22.12  Signed into Law

5.21.12  Interop Report Filed with FCC

6.21.12  FCC Interop Report Approved/ Sent to NTIA

3.23.12  FCC Interop Board Convenes

8.20.12  FirstNet Board Created

8.22.12  State & Local Grant Program

Q1.13  NTIA FFO

9.25.12  Initial FirstNet Meeting

FirstNet Creates National Architecture

FirstNet RFPs

NTIA/Governors

- State Opt-Out; Or
- State Opt-In: FirstNet Partnership/ Collaboration with States
- FirstNet Deploys

NO TIMELINE EXISTS
TECHNICAL ADVISORY BOARD
FOR FIRST RESPONDER INTEROPERABILITY

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

Membership†
4 Wireless Service Providers
3 Equipment Vendors
4 Public Safety Representatives
3 State & Local Government
1 NIST-Appointed Member

Schedule
3/23/12: Board Convenes
4/23/12: Public Workshop
5/22/12*: Report filed w/ FCC

†Middle Class Tax Relief and Job Creation Act of 2012

Report submitted to FirstNet Board
Requirements to be incorporated in RFPs

Interoperability Board Report available on:

Chair
 • Charles L. K. Robinson, City of Charlotte, NC
 • Kenneth C. Budka, Alcatel-Lucent
 • Steve Proctor, Utah Comms. Agency Network
 • Colonel Kenneth C. Hughes, Jr., (Ret)
   New Orleans Urban Area Security Initiative
 • Brian Shepherd, Adams County (CO) Comms. Ctr.
 • Todd Bianchi, District of Columbia Fire and EMS
 • Bill Price, State of Florida
 • Brenda L. Decker, State of Nebraska
 • Bob Azzi, Sprint Nextel
 • Diane C. Wesche, Verizon
 • Ed Chao, MetroPCS Communications, Inc.
 • Ron Strecker, Panhandle Telecommunications
 • Dennis Martinez, Harris Corporation
 • Paul Steinberg, Motorola Solutions, Inc.
 • Dereck Orr, NIST (non-voting member)
A Rural and Regional Opportunity

Sec.6212. Prohibition on Direct Offering of Commercial Telecommunications Service Directly to Consumers

• (a) In General - The First Responder Network Authority shall not offer, provide, or market commercial telecommunications or information services directly to consumers.

• (b) Rule of Construction - Nothing in this section shall be construed to prohibit the First Responder Network Authority and a secondary user from entering into a covered leasing agreement pursuant to section 6208(a)(2)(B). Nothing in this section shall be construed to limit the First Responder Network Authority from collecting lease fees related to network equipment and infrastructure pursuant to section 6208(a)(3).
• Permanent Self-Funding; Duty to Assess & Collect User Fees
  • Network User Fees
  • Lease Fees related to Network Capacity
    • **Covered Leasing Agreements**: Public-Private arrangements to construct, manage, and operate the nationwide public safety broadband network between FirstNet and secondary users permit:
      ➢ Access to network capacity on a secondary basis for non-public safety services.
    • Lease Fees related to Network Equipment & Infrastructure
      ➢ Entities seeking access to FirstNet infrastructure (e.g. towers) must pay lease fees.
  • FirstNet fees must be sufficient/shall not exceed amount necessary to recoup total expenses of FirstNet in carrying out its duties.
Conclusion

• Key Considerations:
  • State & Local Implementation Grant Program may set stage for both FirstNet and State Public Private Partnerships.
  • CCA and Members need to engage now at the state level to participate in the State and Local Implementation Grant Planning process.
  • Public-Private Partnerships will be critical for creating appropriate economic and business model to justify State deployment:
    • Utilities
    • Carriers
    • Other governmental services (State government/agencies leveraging the network)
    • Lease Fees should not discourage participation: “In-Kind” fees???
  • PPP = Self-Sustaining Business Model & Economic Development