
STATEWIDE EMERGENCY COMMUNICATIONS BOARD

INTEROPERABLE DATA COMMITTEE

March 15, 2016
10:00 a.m.
Chair: Mike Risvold

Call in Number: 1-888-742-5095

Call in code: 2786437892#

AGENDA

Call to Order

Approval of Agenda

Approval of the Previous Meeting's Minutes

Action Items

Discussion Items

- Amendments to the RFP (Melinda Miller)
- CTT Workshops (Melinda Miller)
- Public Safety LTE: A Peek Into the Future (Motorola Presentation)
 - Now that FirstNet has released its RFP - what can we expect? This webinar will discuss the path forward for the LTE nationwide network, devices, applications and LTE/LMR convergence.

Other Business

- 2015 Attendance and 2016 Committee Roster

Announcements

Adjourn

**STATEWIDE EMERGENCY COMMUNICATIONS BOARD
INTEROPERABLE DATA COMMITTEE**

Chair: Mike Risvold
February 16, 2016

ATTENDANCE

Jackie Mines	Dept. of Public Safety	Melinda Miller
Jim Johnson	MN IT Services	Ullas Kamath
Jim Mohn/Tim Lee	Dept. of Transportation	
Victor Wanchena	Dept. of Corrections	Steve Ouradnik
Thomas Humphrey	Metropolitan Council	Vince Pellegrin
Brian Askin	Dept. of Natural Resources	vacant
Steve Bluml	Minnesota State Patrol	Tim Boyer
John Hyde	Minnesota Sheriffs' Association	vacant
Michael Risvold, CHAIR	Minnesota Police Chiefs' Association	vacant
Wayne Kewitsch	Minnesota Fire Chiefs' Association	vacant
Mary Borst	Minnesota Ambulance Association	vacant
Vacant	League of Minnesota Cities	vacant
Tina Lindquist	HESM Region 4	vacant
Dave Deal	Association of Minnesota Counties	Nate Timm
Vacant	Minnesota Indian Affairs Council	vacant
Jake Thompson	Metropolitan Emergency Services Board	Rod Olson
Kristen Lahr	Central Emergency Services Board	Brandon Larson
Brian Zastoupil	Northwest Emergency Communications Board	Beryl Wernberg
Bruce Hegrenes	Northeast Emergency Communications Board	Monte Fronk
Brad Milbrath	South Central Emergency Communications Board	Andy Buckmeier
Rick Freshwater	Southeast Emergency Communications Board	Dave Pike
Stacy Tufto	Southwest Emergency Communications Board	Vacant

ALSO ATTENDING

Diane Wells, MN Office of Broadband
 Mike Martin, FBI
 Jim Jarvis, EOC
 Nate Timm, Washington County
 Mark Navolio, Televate
 Brandon Abley, Televate
 Cathy Anderson, DPS-ECN
 Carol-Linnea Salmon, DPS-ECN

Randy Donahue, DPS-ECN
Marcus Bruning, DPS-ECN
Rick Juth, DPS-ECN

CALL TO ORDER

Chair Risvold calls the meeting to order at 10:04 a.m.

Steve Bluml makes a motion to approve the agenda.

Dave Deal seconds the motion.

Motion carries.

APPROVAL OF MEETING MINUTES

Bruce Hegrenes makes a motion to approve the December meeting minutes.

Kristen Lahr seconds the motion.

Motions carries.

DISCUSSION ITEMS

- FirstNet RFP Summary Presentation (Brandon Abley)

Brandon Abley from Televate introduces a briefing on the FirstNet RFP.

He reports that the RFP is objectives-based. There are many evaluation factors and few requirements. This may be to allow a wide variety of solutions. There have been some creative proposals. It is likely that a qualified vendor would need to be a major commercial cellular carrier or involved with one.

The most important evaluation factor is subscriber adoption. The vendor has to commit to getting a certain amount of business and if it does not reach its target it is penalized. The vendor is evaluated based on how many subscribers it commits to getting. Theoretically the best service would get the most subscribers so this is a motivator for vendors to deliver on every aspect of providing service.

The vendor assumes all aspects of the service –implementation, building and operating the network, the sales and marketing, and will also receive a license to market itself as FirstNet.

The contract is expected to be awarded on November 1, 2016. The vendor is required to start marketing its service within six months after the award. A vendor would not have built out the Band 14 spectrum at that point. Using Verizon as an example, the service would at that point be on Verizon's commercial network but it would look like FirstNet. State plans will be delivered in early 2017. By the end of April, 2017, the vendor has to have some Band 14 sites in. If everything goes according to schedule, the service will be fairly mature by November 2018. The Final Operating Capability (FOC) will be 60 months from the date of the award.

The Initial Operating Capability, Phase 3 (IOC-3). By 24 months from the award the vendor is required to:

- have over 50% of its proposed user base;
- have over 60% of its proposed Band 14 spectrum;
- provide mission-critical services including Push To Talk (PTT);
- provide public safety priority services.

There is no guarantee that this will be the outcome but the vendor will not be paid if it isn't.

After IOC-3, most of the improvements are expanding coverage. The vendor must have 95% of the proposed coverage within four years.

Evaluation Factors: there are few requirements and many objectives. The RFP does not detail how points will be awarded but it provides categories of evaluation factors and ranks them according to relative importance. The evaluation factors are business management, coverage and capacity, products and architecture, offeror's value proposition assessment, and past performance on government contracts.

15% of coverage shall "include partnerships with rural telecommunications partners" though the RFP does not say how this will happen. This is one of the few pass/fail requirements in the RFP.

Business management is the most heavily weighted factor in the RFP. There is no minimum coverage requirement but coverage is a major evaluation factor.

Coverage is defined only in terms of throughput for an unspecified device:
 3 feet, outdoor 50% uniform cell load, cell edge
 768k down/256k up at the cell edge

This is sufficient for CAD, data transactions and Push-to-Talk. Not for video. There is a risk that without specific engineering criteria, offerors may have latitude to "play" with their projected coverage or offerors may use inconsistent criteria and not be easily comparable.

FirstNet included all of the coverage requirements submitted by Minnesota, which provides for about 97% of the state. This is an objective, not a requirement. The states that asked for coverage are likely to be weighed more heavily in the RFP because FirstNet took those requirements and put them in the RFP. Offerors will be evaluated state-by-state based on how much of the FirstNet coverage objective they meet. A vendor can't leave out some states just because it would be difficult to do business there.

FirstNet defined urban using the Rural Electrification Act of 1936. Urban and rural areas are separate milestones in how the vendor provides coverage. Abley compares Alabama and Minnesota for urban versus rural areas. He points out that Alabama has one of the highest percentages of urban land as defined in the RFP. In Minnesota about 2% of the state is considered urban and that is mostly centered in the Twin Cities. Alabama has a lot of smaller cities but they are spread out.

The vendor has to implement an app store. The RFP indicates that there will be a FirstNet certification process for apps. One concern is that this could segment the market.

The cyber security section has over 100 evaluation criteria but not many requirements. It reads like a best practices guide and there are no real surprises. Encryption is required for all traffic and all data. Everything will be encrypted all the time over the network.

If the vendor doesn't reach its target adoption rates it will be fined a disincentive payment. The vendor pays a full disincentive payment at less than 70% adoption rate. The payments increase over time but average \$2-3 million per year for Minnesota. This is to ensure that the vendor does marketing, provides good service, and retains its customers.

Abley summarizes that FirstNet's RFP is a massive, detailed and creative approach to providing national public safety broadband network (NPSBN) service to the nation. The vendor assumes most aspects of the NPSBN including managing the service and all sales and marketing. The coverage objective for Minnesota is 97%. The RFP is almost entirely objectives-based. Qualified vendors will likely have to be, or be affiliated with, a major carrier. State plans and basic "FirstNet" service will be available six months from the contract award. After year two, the service will be fairly mature and will offer most of what will be provided. Later phases are mostly filling in coverage.

DISCUSSION ITEMS

None.

OTHER BUSINESS

None.

ANNOUNCEMENTS

Jackie Mines introduces Melinda Miller who has joined ECN as the FirstNet Program Manager and Deputy SWIC. Miller comes from MNIT with an extensive knowledge and background in IT and communications.

Mines reports that FirstNet has requested a State Point of Contact (SPOC) kick-off meeting to review what will happen over the next year. Minnesota's SPOC is Commissioner Doman. Commissioner Doman, Deputy Commissioner Dunaski, Chair of the SECB, and CIO Baden will be invited. Those are the ones who will be contacted by the Governor's office for input about FirstNet. FirstNet has been reaching out to the Governor's office both in Washington DC and here letting them know that they are looking for feedback within the year and talking about the project. FirstNet will focus this year on outreach activities. They are looking for speaking engagements. She encourages committee members who are involved with their professional associations to consider inviting FirstNet to speak at conferences and meetings.

Mines invites IDC members to attend the SPOC meeting in April (either April 12-13 or 13-14) in Virginia. There is grant money to fund travel. FirstNet will also be creating workgroups similar to those we have had when we prepared responses to FirstNet on its requirements. FirstNet is planning to adopt that strategy. She anticipates that the first workgroup will likely be prioritization. Anyone interested in being on a FirstNet work group should email Mines or Miller.

Meeting adjourns at 11:01 a.m.



IDC Webinar: Public Safety LTE - A Peek Into the Future

Dan Naylor
Private LTE Business Manager

MAR 15, 2016

Agenda



- FirstNet RFP highlights
- FirstNet objectives & timeline
- Local control
- Devices
- Applications
- LTE/LMR convergence

Public–Private Partnership Enables FirstNet Success



A Unique Public–Private Partnership Will Achieve FirstNet’s Mission

FirstNet Provides

- 20 MHz of low-band spectrum
- Up to \$6.5 billion in cash
- Relationship with public safety stakeholders
- 25-year contract ordering term (IDIQ)

Contractor Provides

- Assets, capabilities, and synergies to meet FirstNet’s stated objectives:
 - Deploy, operate, and maintain the NPSBN
 - Public safety adoption and use of the NPSBN
 - Applications and device ecosystems
- Payments to FirstNet to ensure sustainability and network reinvestment

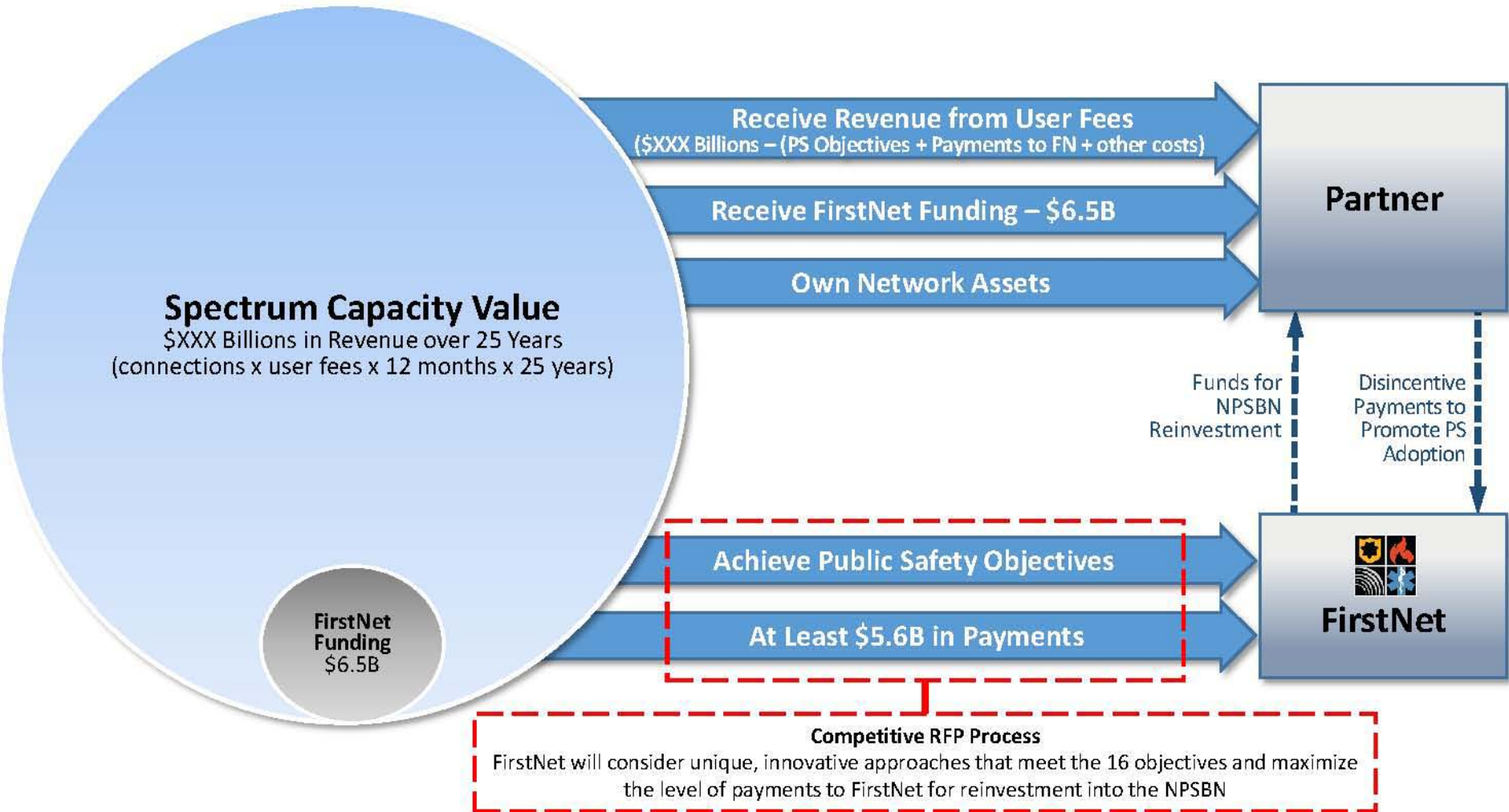
FirstNet Gets

- Nationwide public safety mission achieved with priority, preemption, and a resilient network
- Improved public safety communications capabilities that increase mission performance
- Annual payments to ensure sustainability

Contractor Gets

- Cash payments based on buildout milestones
- Rights to monetize 20 MHz of spectrum with significant revenue potential for 25 years
- Sticky market of millions of public safety users
- Domestic/global pull-through benefits

NPSBN Business Model



DEPLOYING BROADBAND



STANDALONE PS-LTE NETWORK

MIDDLE EAST, BRAZIL

- Dedicated Spectrum and Network
- Utilized only by PS agencies
- Sold directly to PS agency, usually as a CAPEX model

HYBRID PUBLIC-PRIVATE

MEXICO

- Dedicated Spectrum, Shared Network
- PS-LTE network shared with other entities (e.g., utilities, carriers, military)
- Will require unique governance and operating model to accommodate PS demands and reduce costs

CARRIER LEVERAGED

UK HOME OFFICE, FIRSTNET

- Shared Spectrum and Network
- Network shared with consumers, businesses, and PS agencies
- Select enhancements and hardening to meet PS agency needs

Higher levels of PS control, functionality, and reliability
Higher cost per PS user
More likely a CAPEX-based deployment

Lower levels of PS control, functionality, and reliability
Lower cost per PS user
More likely an 'aaS' deployment

RFP Statement of Objectives



**Building,
Deployment,
Operation &
Maintenance
of the NPSBN**



**Financial
Sustainability**



**First Responder
User Adoption**



**Device
Ecosystem**



**Applications
Ecosystem**



**Accelerated
Speed to
Market**



**User Service
Availability**



**Service
Capacity**



Cyber Security



**Priority
Services**



**Integration
Of Opt-out
State RANs**



**Integration of
Existing
Commercial/
Federal/
State/Tribal/Local
Infrastructure To
Support NPSBN
Services**



**Life-cycle
Innovation**



**Program and
Business
Management**



**Customer
Care and
Marketing**



**Facilitation of
FirstNet's
Compliance
With The Act
& Other Laws**

Evaluation Criteria in the RFP



Business Management Factor

- Leadership and Program Management
- Public Safety Customer Acquisition
- Customer Care and Lifecycle Sustainment
- Financial Standing
- Delivery Mechanism for State Plans



Coverage & Capacity Factor

- Band 14 & Non-Band 14* Coverage and Capacity
- RAN solutions
- IOC/FOC Milestones for Coverage and Capacity
- Ability to demonstrate rural partnerships



Value Proposition Assessment

- Meets FirstNet sustainability objective
- Use of FirstNet's \$6.5B
- Demonstrated synergies & added value
- Unbalanced/unreasonable value determination



Past Performance Factor:

- Successful project completion history (e.g., similar scope, within schedule, within budget, quality deliverables)
- Quality of cooperation and responsiveness
- Performance measure implementation and improvement



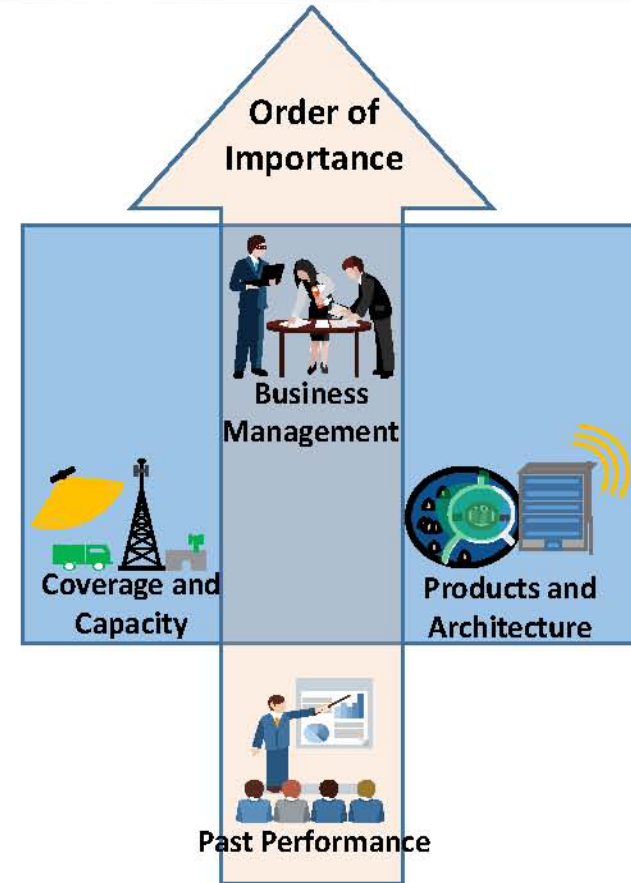
Products & Architecture Factor

- Service (public safety features)
- Applications
- Device
- Architecture and Infrastructure
- Operations
- Security



Risk

- Proposal Risk
- Performance Risk



* Where applicable

Aggregating Coverage Inputs

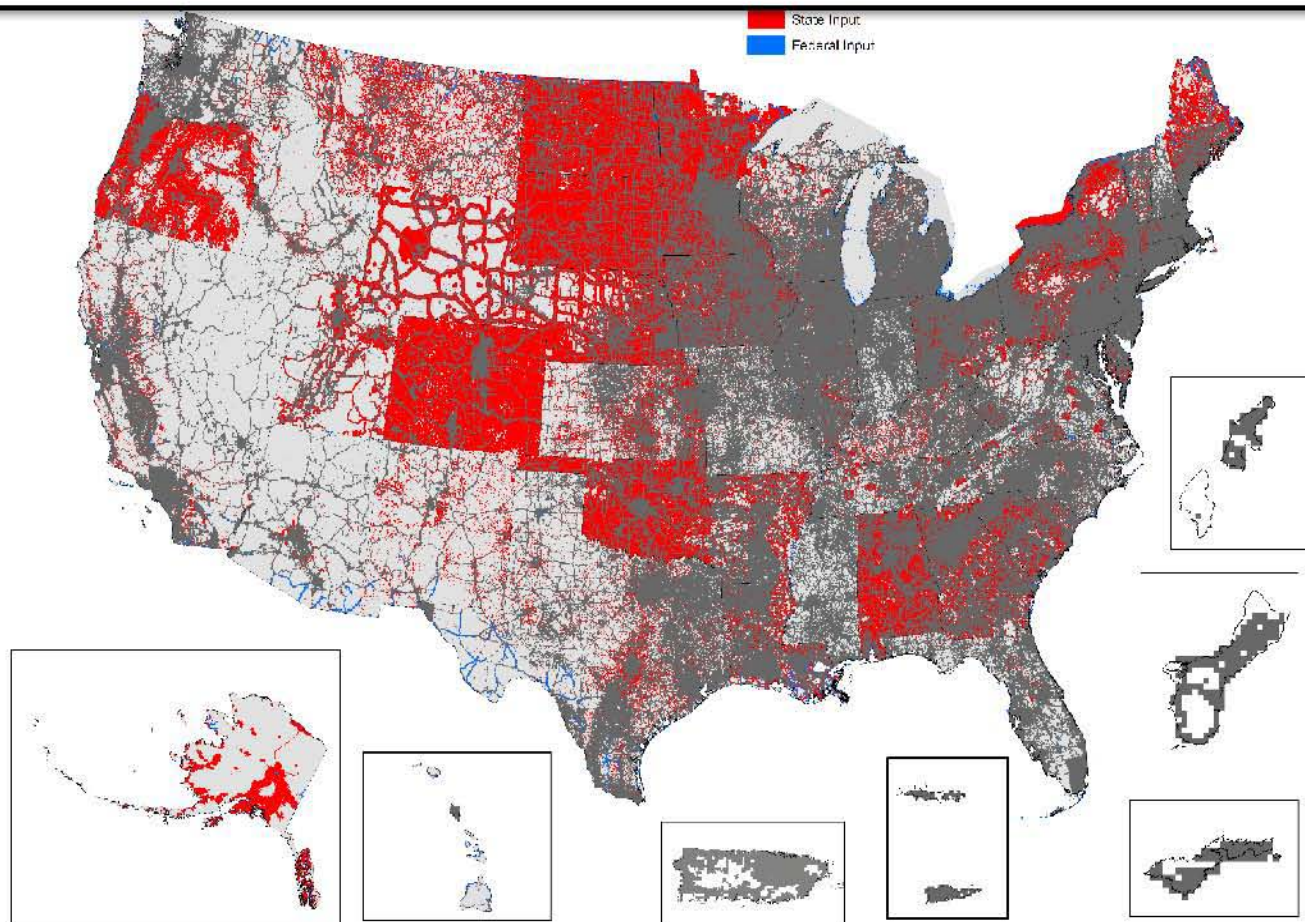
State/Local + Federal = FirstNet Baseline

Federal Datasets

1. Border Crossings & Roadways
2. HQ & Field Offices
3. Key Facilities / Locations
4. Federal Buildings

State/Local Datasets

1. LE, Fire, EMS Personnel
2. Public Safety Risk/Areas of
3. US Population
4. Developed Areas/Buildings
5. Roadways



RFP – Key Objectives



Specifically defined by FirstNet

- Term – 25 years from date of award (planned 11/1/16)
- Applicable standards for security, network, interfaces (ISO, 3GPP)
- Minimum payments to FirstNet
- Disincentive payments due if Offeror misses subscriber adoption goals
- Rural telecommunication partnerships for at least 15% of rural coverage
- Basic network services: messaging, streaming video/audio, telephony, M2M comms, IMS, broadcast/multicast, presence, location, DM, LI, NG911 interconnection, WEA support
- Dynamic QPP
- ICAM (Identity, Credential & Access Mgt)
- FirstNet Applications Store
- Local Control interfaces to Public Safety Entities
- Public Safety Entity home page
- Status reporting by operator

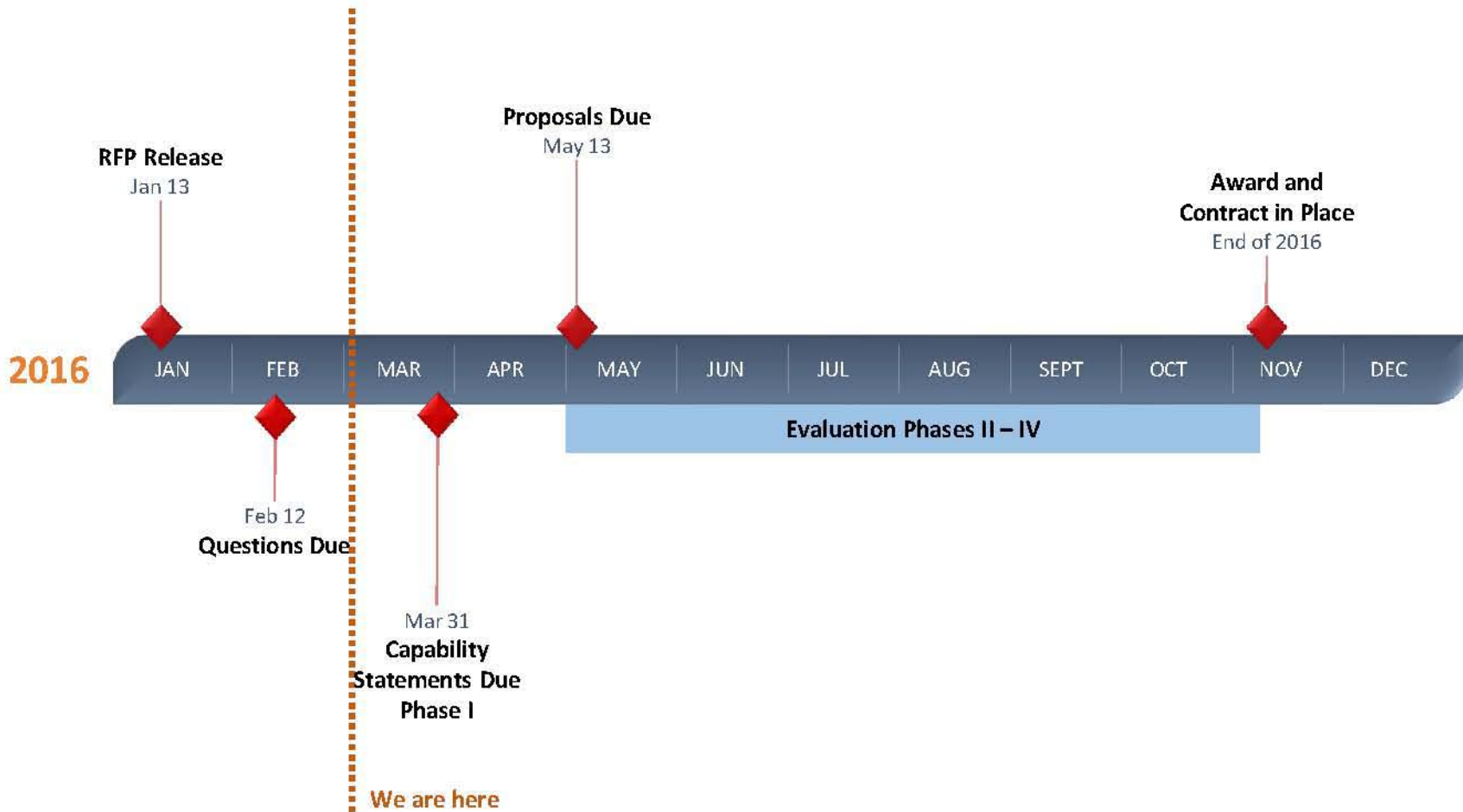
RFP - Objectives



Left to the Offeror

- Define subscriber adoption goals by phase
- Define pricing of services
- Define network Key Performance Indicators
- Extent of non-Band 13 and Band 14 coverage
- Extent of redundancy & hardening
- Roadmap for Mission-Critical PTT, Telephony, broadcast ProSe, data, location services (target – 24 mos from contract)
- Device ecosystem
- Applications ecosystem
- Roaming partner strategy
- Integration of state-deployed RANs (opt-out)
- Support for LMR integration (if proposed)
- Cybersecurity strategy

Key Dates – Phased Approach to Evaluation



RFP – Deployment Timeline



Phases

- Initial Operational Capability – 5 phases starting 6 months from award up to 48 months from award
- Final Operational Capability – 60 months after award

IOC-1 (Award + 6 mos)

- Non-Band 14 coverage
- Statewide plans complete
- Band-14 deployables
- Basic Services, Phase 1

IOC-2 (Award + 12 mos)

- 20% of non-rural and rural proposed Band 14 coverage
- FirstNet specific sales, billing, financial support systems

RFP – Deployment Timeline



IOC-3 (Award + 24 mos)

- 3GPP Release 13 – Mission Critical Services
- Dynamic QPP (priority & pre-emption)
- 60% of non-rural and rural proposed Band 14 coverage
- 50% of proposed user adoption goal

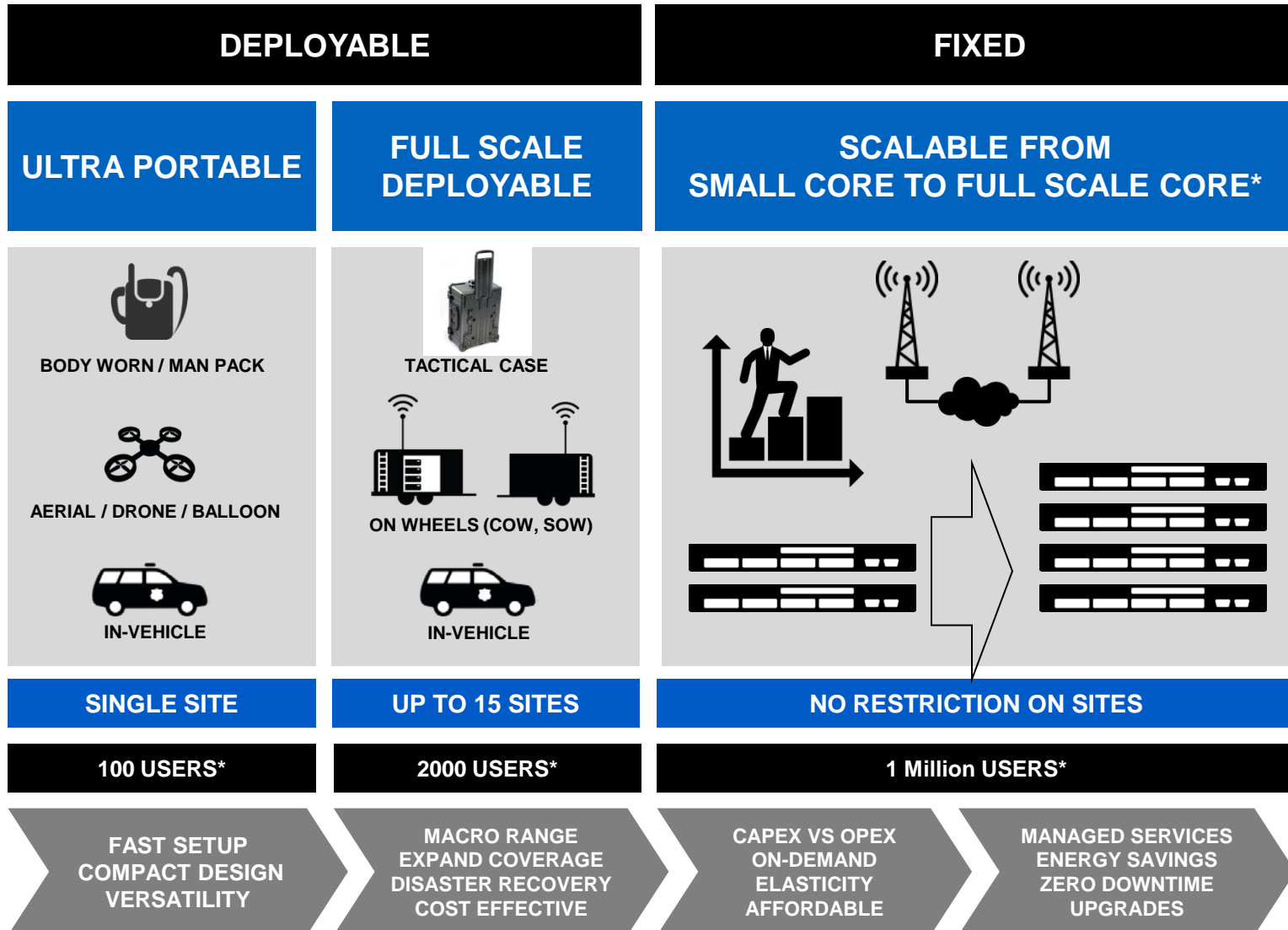
IOC-5 (Award + 48 mos)

- 95% of non-rural and rural proposed Band 14 coverage
- 100% of proposed user adoption goal



Network

LTE CORE SYSTEMS SUMMARY



*Maximum capacity, based on standardized call model

ULTRA-PORTABLE LTE



KEY BENEFITS

BROADBAND WHEREVER

Bring broadband capability to areas without existing infrastructure

CHOICE OF DELIVERY PLATFORM

Vehicle trunk, backpack or drone

COMPLETE PACKAGE

Base station, Evolved Packet Core, Backhaul, Applications (hosted)

SCALABLE AND EXPANDABLE

Operate standalone or in conjunction with other units to create “mesh” coverage

QUICK DEPLOYMENT

Network can be up and running in under an hour



Local Control

Local Control



Assure agency control:

- Dynamic Quality-of-Service, Priority & Pre-emption (QPP)
- Use local agency authentication credentials for ICAM
- Multiple user roles & profiles
- User/device adds & deletes
- Group provisioning and management
- Application management including adds, updates, whitelisting & blacklisting
- Support BYOD

Give agency access:

- Network service reporting – status, outages, performance



Devices

RFP Devices Specifics



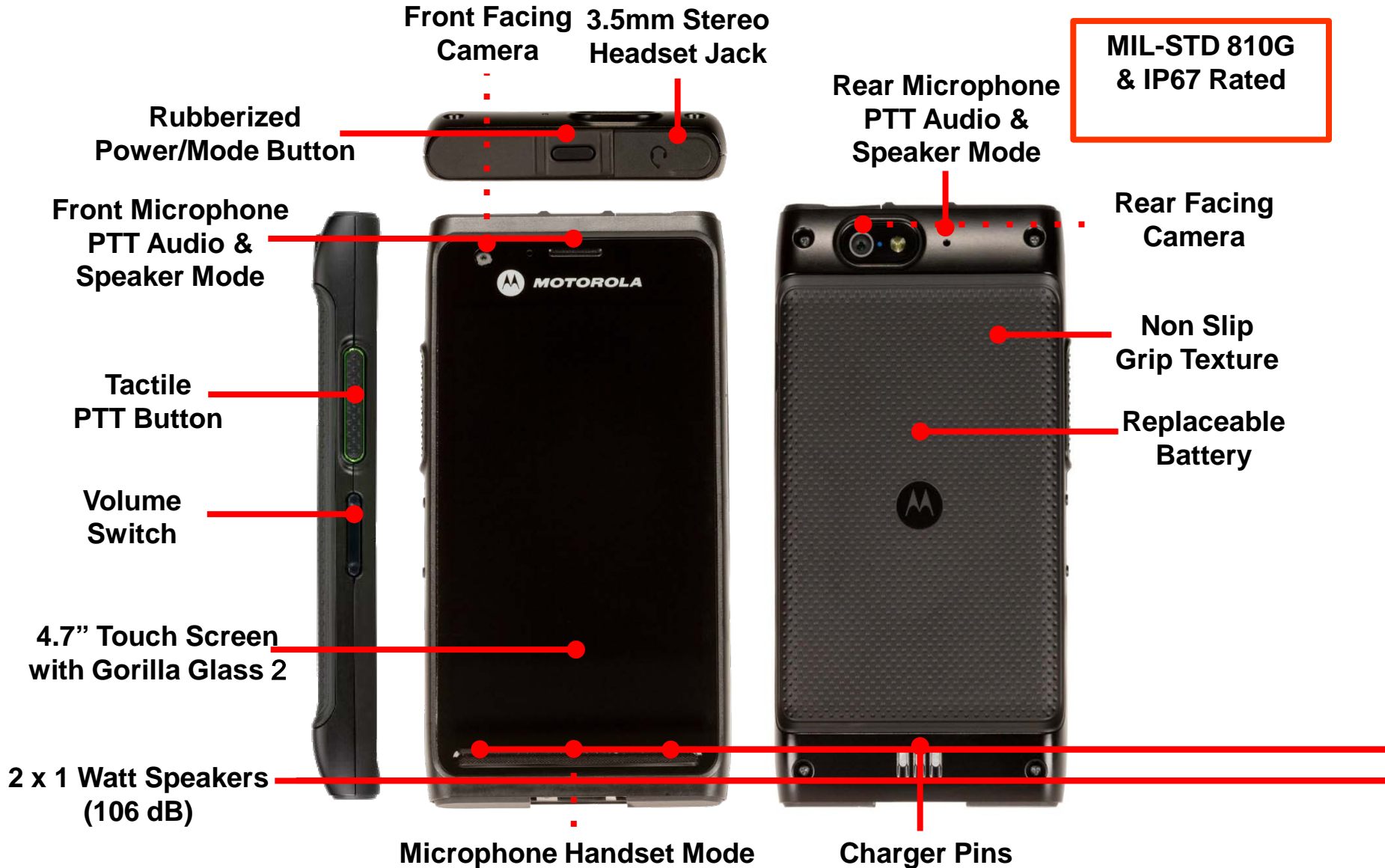
Device

- Device ecosystem/catalog
- Bring Your Own Device (BYOD)
- Device certification process
- Mass market and ruggedized devices

Device configurations

- Smartphones
- Tablets
- Modems
- In-vehicle routers
- Vehicular Network Systems
- Machine-to-Machine configurations (incl. video, drone)

PURPOSE-BUILT HANDHELD





Applications

RFP Applications



Application Sources

- FirstNet provided applications
- Applications via Application Store
- Public Safety Entity (PSE) hosted applications

Application Attributes

- Open APIs for 3rd party developers and to Public Safety agency applications
- Applications store
- Support of hosted/cloud services
- Support of Software-as-a-Service (SaaS)

“Mission Critical” Services

- 3GPP Release 13 products projected into late 2018/early 2019

INTELLIGENT MIDDLEWARE

APPLICATIONS

Whiteboard/
Mapping

CAD

Video
Monitoring /
Call

Voice PTT or
Telephony

Other 3rd Party
Apps

API Suite of Interfaces (REST & SOAP)

INTELLIGENT MIDDLEWARE

LOCATION

PRESENCE

QOS

GROUP MGT

IDENTITY

CONTEXT

MESSAGING

ACCESS NETWORKS

TETRA/P25

Private LTE

Cellular (2G/3G/4G)

WLAN

DEVICES

Mobile
Radio

Portable
Radio

Integrated
Device

Vehicular
LTE modem

Android
Handheld

MDT

M-2-M

API Suite of Interfaces (REST & SOAP)

Whiteboard/Map

CAD

Video

Voice

3rd Party Apps

M
V
P
N

Delivering an open and secure environment that enable tight integration between application and user experience



LTE/LMR Convergence

3GPP Standards Development



Proximity Services

Release 12 & 13
(PROSE)

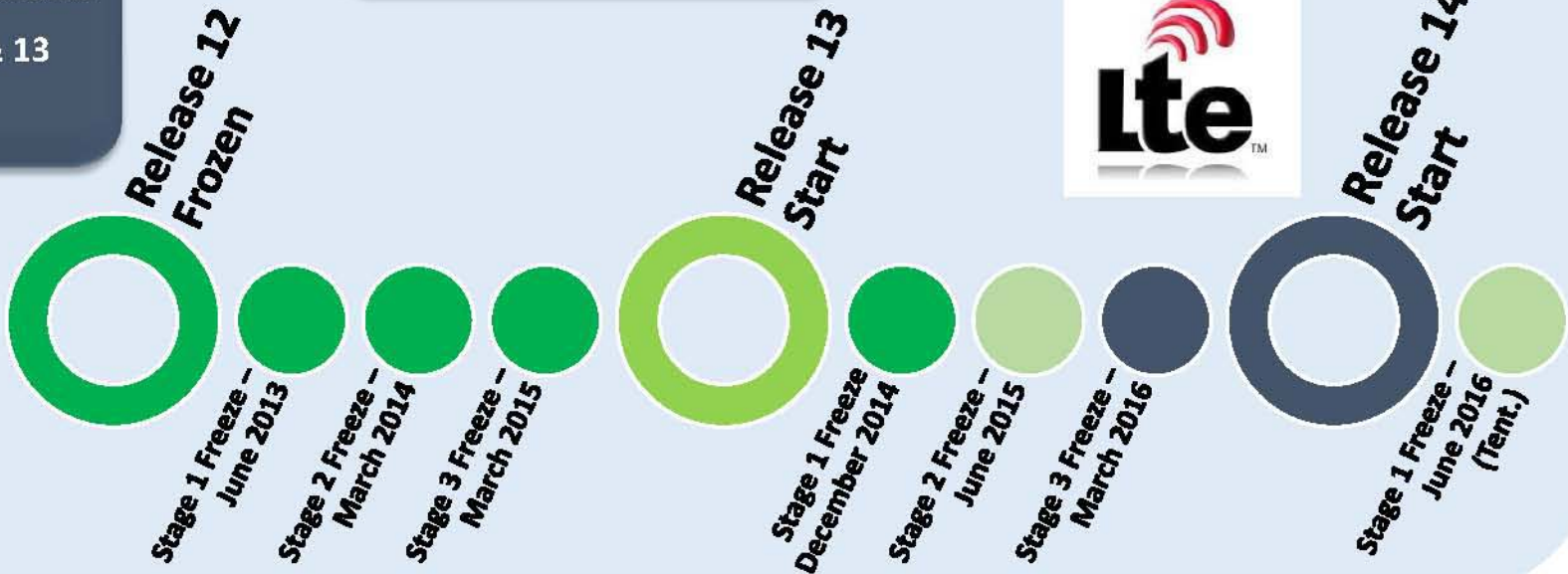
Group Communications

Release 12 & 13
(GCSE)

Mission Critical Push-to-Talk standards also supported by the United Kingdom, South Korea, Australia, Canada, France, Germany, and the Netherlands

Mission Critical Push-To-Talk

Release 13
(MCPTT)



LTE/LMR Converged Services



- Interoperable group, private call, user ID, emergency
- Common services: location, presence, group management
- Single signon/identity management
- Call priority/floor control
- APIs for dispatch applications
- Integrated user experience/application integration (messaging, telephony, mapping)
- Encryption end-to-end

THANK YOU



SECB Interoperable Data Committee 2015 Attendance

	Interoperable Data Committee Members and Alternates	Mar 17	Apr 21	May 19	Jun 16	Jul 21	Sep 22	Oct 20	Nov 17	Dec 15
8	DPS: Jackie Mines	X	X		X	X	X	X	X	X
5	Alternate: Rubin Walker/vacant	X	X	X	X	X				
0	MN.IT Services: Jim Johnson									
3	Alternate: Ullas Kamath		X	X		X				
5	MnDOT: Jim Mohn/Tim Lee		X		X	X	X		X	
1	Alternate: Mukhtar Thakur	X								
8	DOC: Victor Wanchena	X		X	X	X	X	X	X	X
1	Alternate: Cari Gerlicher Steve Ouradnik (beginning December)									X
2	Metropolitan Council: Thomas Humphrey						X		X	
0	Alternate: Vince Pellegrin									
0	DNR: Brian Askin									
0	Alternate: VACANT									
4	State Patrol: Steve Bluml		X	X	X				X	
1	Alternate: VACANT/Tim Boyer									
2	Sheriffs' Association: John Hyde					X	X			
0	Alternate: VACANT									
8	Police Chiefs' Assn: Mike Risvold (Chair)	X	X	X		X	X	X	X	X
0	Alternate: VACANT									
2	Fire Chiefs' Assn: VACANT/Wayne Kewitsch beginning November								X	X
0	Alternate: VACANT									
5	Ambulance Assn: Mary Borst	X	X					X	X	X

Interoperable Data Committee

<p>Jackie Mines Director Emergency Communications Network 445 Minnesota Street, Suite 137 St. Paul, MN 55101 651-201-7550 651-331-8588 612-250-5421 Jackie.Mines@state.mn.us</p>	<p>Department of Public Safety</p>	<p>Melinda Miller FirstNet Program Manager Emergency Communications Network 445 Minnesota Street, Suite 137 St. Paul, MN 55101 651-201-7554 melinda.miller@state.mn.us</p>
<p>Jim Johnson OET 658 Cedar Street 1st Floor COB St. Paul, MN 55155 651-201-1016 jim.e.johnson@state.mn.us</p>	<p>MN IT Services Office of Enterprise Technology 658 Cedar Street St. Paul, MN 55155</p>	<p>Ullas Kamath OET 658 Cedar Street 1st Floor COB St. Paul, MN 55155 651-201-1017 ullas.kamath@state.mn.us</p>
<p>Jim Mohn Engineering Administrative Statewide Radio Communications Department of Transportation 1500 West County Road B2 Roseville, MN 55113 651-234-7969 Jim.mohn@state.mn.us</p> <p>Tim Lee Electronic Communications Asst. Dir. Statewide Radio Communications Department of Transportation 1500 West County Road B2 Roseville, MN 55113 651-234-7963 Tim.Lee@state.mn.us</p>	<p>Department of Transportation 1500 West County Road B2 Roseville, MN 55113</p>	<p>Mukhtar Thakur Statewide Radio Communications Department of Transportation 1500 West County Road B2 Roseville, MN 55113 651-234-7962 mukhtar.thakur@state.mn.us</p>
<p>Victor Wanchena DOC Corrections Alternative Program Manager 1450 Energy Park Drive Suite 200 St. Paul, MN 55108 651-361-7252 victor.wanchena@state.mn.us</p>	<p>Department of Corrections</p>	<p>Steve Ouradnick MCF-Oak Park Heights 5329 Osgood Avenue North Stillwater, MN 55082 651-779-1448 Steve.r.ouradnik@state.mn.us</p>
<p>Thomas Humphrey 612-349-5001 651-295-1250 Thomas.humphrey@metc.state.mn.us tom.humphrey@metc.state.mn</p>	<p>Metropolitan Council</p>	<p>Vince Pellegrin vince.pellegrin@metc.state.mn.us</p>

Statewide Emergency Communications Board

Interoperable Data Committee

<p>Brian Askin Telecom Specialist OET Central Office - 4th Flr - Box 11 658 Cedar St. St. Paul, MN 55155 651-201-2271</p> <p>brian.askin@state.mn.us</p>	<p>Department of Natural Resources</p>	<p>Vacant</p>
<p>Steve Bluml Director State Patrol Headquarters 651-201-7119 763-464-2214 steven.bluml@state.mn.us</p>	<p>Minnesota State Patrol</p>	<p>Tim Boyer Administrative Planning Director State Patrol RRCC 1500 W County Road B-2 #320 Roseville, MN 55113-3174 651-757-1980 651-238-6246 Timothy.Boyer@state.mn.us</p>
<p>John Hyde jhyde@duluthmn.gov</p>	<p>Minnesota Sheriffs' Association</p>	<p>Vacant</p>
<p>Michael Risvold, CHAIR Wayzata Police Department 600 Rice Street East Wayzata, MN 55391 952-404-5343 mrisvold@wayzata.org</p>	<p>Minnesota Police Chiefs' Association</p>	<p>Vacant</p>
<p>Wayne Kewitsch wkewitsch@cityofrichfield.org</p>	<p>Minnesota Fire Chiefs' Association</p>	<p>Vacant</p>
<p>Mary Borst borst.mary@mayo.edu</p>	<p>Minnesota Ambulance Association</p>	<p>Vacant</p>
<p>Vacant</p>	<p>League of Minnesota Cities</p>	<p>Vacant</p>
<p>Michael Wisniewski michael.wisniewski@co.todd.mn.us</p>	<p>HESM Region 4</p>	<p>Vacant</p>
<p>Dave Deal Sargeant Dave.Deal@co.washington.mn.us</p>	<p>Association of Minnesota Counties</p>	<p>Nate Timm Washington County 651-267-2857 nate.timm@co.washington.mn.us</p>
<p>Vacant</p>	<p>Minnesota Indian Affairs Council</p>	<p>Vacant</p>
<p>Jake Thompson jake.thompson@co.anoka.mn.us</p>	<p>Metropolitan Emergency Services Board</p>	<p>Rod Olson City of Minneapolis Rodney.Olson@minneapolismn.gov</p>
<p>Kristen Lahr 807 Courthouse Square PO Box 217 St. Cloud, MN 56302 320-290-9151</p>	<p>Central Regional Radio Board</p>	<p>Brandon Larson</p>

Interoperable Data Committee

320-259-3727 kristen.lahr@co.stearns.mn.us		
Brian Zastoupil bzastoupil@cityoffargo.com	Northwest Regional Radio Board	Beryl Wernberg 911 Supervisor/Emergency Communications Director Beltrami County Sheriff's Office 218-333-8320 218-766-3095 beryl.wernberg@co.beltrami.mn.us
Bruce Hegrenes hegrenesb@StLouisCountyMN.gov	Northeast Regional Radio Board	Monte Fronk 320-532-4181 Monte.Fronk@millelacsband.com
Brad Milbrath brad.milbrath@co.waseca.mn.us	South Central Regional Radio Board	Andy Buckmeier andy.buckmeier@co.waseca.mn.us
Rick Freshwater Olmsted County Sheriff's Office 101 4 th Street SE Rochester, MN 55904 507-254-0067 freshwater.rick@co.olmsted.mn.us	Southeast Regional Radio Board	Dave Pike dpike@co.mower.mn.us
Stacy Tufto stufto@co.chippewa.mn.us	Southwest Regional Radio Board	Vacant

Updated February 2016

MnFCP Weekly Status Report

Minnesota Department of Public Safety – MnFCP

EXECUTIVE SUMMARY Status Meeting

Status on 29 February 2016	Prior Status	Green	Current Status	Green
Green	The project is within 20% variance of the currently approved baseline for budget and schedule, and is expected to substantially meet all of the business objectives established in the startup report.			
Yellow	The project has exceeded 20% variance of the currently approved baseline for budget and/or schedule and is expected to substantially meet all of the business objectives established in the startup report.			
Red	The project is at risk of termination, or at risk of not substantially meeting the business objectives established in the startup report.			

Attendees/Invitees:

- DPS: Jackie Mines, Melinda Miller, Dana Wahlberg, Marcus Bruning, Randy Donahue, Rick Juth, Adam Iten, Dan Ross
- Televate/IG: Mark Navolio, Rick Burke, Ken Boley, Brandon Abley, Elizabeth Herring
- **Task 4 – Education and Outreach:**
 - Pending Items:
 - Article for publication; outline sent for review, Televate to provide full draft
 - Training Modules:
 - LTE Technical Review (Deep Dive) – Review complete; additional slides being added, final package to be posted this week.
 - RICs to review and provide feedback; review “v4” version
 - ECN/MnFCP Website Suggestions; Pending Items:
 - Meeting with Communications Department (Doug Nevel & Bruce ...) on requested changes (MM)
 - Interop Conference (MM)
 - Timeline (MN) – Pending
 - Buttons (MN) – Pending
 - Presentations for “Resources Page”; (MN) to post all presentation to the DropBox – Pending
 - Useful Videos; (MN) to provide hyperlinks to all outside video sources – Pending
 - FAQs & Hyperlinks; (MN) to provide list – Pending
 - Recent Delivered Items:
 - Newsletter – Delivered: “Outcome of the Strategic Build-Out Strategy”
 - Training Modules:
 - *What is Wireless Broadband* – Delivered & Posted
 - *Public Safety Broadband for the PSAP* – Delivered
- **Task 4.19 – Interoperability Conference 2016**
 - Rick Burke and Ron Whitehead posted a revised update to the schedule
- **Task 10.01 – Specific State Plan Elements (FirstNet)**
 - Outcome of the SPOC Meeting – Melinda to provide update
 - FirstNet RFP Summary Document; final revisions made and sent to ECN.
 - FirstNet Q&As posted to the DropBox under “FirstNet RFP”
 - Side-by-side summary of the FirstNet Bidders Conference provided for internal review only
 - Provide briefing the IDC Chair to be scheduled
 - DPS/ECN to provided MnDOT Tower List; MnIT created GIS layers; Televate to review:

Minnesota Public Safety Wireless Data Network Requirements Project

Status on 29 February 2016	Prior Status	Green	Current Status	Green
Green	The project is within 20% variance of the currently approved baseline for budget and schedule, and is expected to substantially meet all of the business objectives established in the startup report.			
Yellow	The project has exceeded 20% variance of the currently approved baseline for budget and/or schedule and is expected to substantially meet all of the business objectives established in the startup report.			
Red	The project is at risk of termination, or at risk of not substantially meeting the business objectives established in the startup report.			
<ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Updated ARMER site layer complete ▪ Verison, AT&T, T-Mobile, NewCore & Sprint? ▪ HOLD: Analysis of State MnDOT Towers for State Plan: 51 towers identified within ESA; SECB to consider tasking MnDOT with a mini-audit of the number of antennas (and owners) installed on the towers. This would provide a reasonable basis to assess whether there is available capacity or whether further strengthening of the structure will be required. <ul style="list-style-type: none"> ○ <i>NewCore Meeting March 1, 1pm central</i> • Task 16 – Public Safety Entity Operational Areas (no new data to report) <ul style="list-style-type: none"> ○ Kanabec County and Red Lake Nation are outstanding, no new data received • Task 17 – Data Usage/Traffic Profiles – CAD Data Manipulation <ul style="list-style-type: none"> ○ Review of CAD Data, 2 meetings, 2 participants and 1 agency to be added to E&O. CAD Data required before end of February. Tracking table is posted on DropBox. Status on outstanding counties: <ul style="list-style-type: none"> ▪ Southern Regions: <ul style="list-style-type: none"> • Chippewa • Freeborn – Pending • Houston • Jackson - Data Received; geocoding pending • Lac qui Parle – Data received and posted for geocoding (HOLD) • Mower – Data Received; geocoding complete • Pipestone – Data Received; geocoding complete • Redwood • Rock – no data possible • Yellow Medicine – Data Received but data unreadable ▪ Metro/Central Regions: <ul style="list-style-type: none"> • Pope – Data received and posted for geocoding (HOLD) • Swift – Data received and posted for geocoding (HOLD) ▪ Northern Regions: <ul style="list-style-type: none"> • Cass – Data received and posted for geocoding (HOLD) • Itasca • Marshall • Norman – Pending • Red Lake • Roseau • Task 19.01 – E&O Regional Meetings & Tribal Outreach <ul style="list-style-type: none"> ○ Meeting with Red Lake Nation pending; Chief William Brunelle Police Red Lake Nation to set up the meeting. 				

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Outreach Tracking: Coverage Reviews, Work Group, and Meetings

Quarter	Start Date	End Date	# Agencies	# Individuals	Meetings
3 rd Quarter, 2014	7/1/2014	9/30/2014	61	85	13
4 th Quarter, 2014	10/1/2014	12/31/2014	85	128	36
1 st Quarter, 2015	1/1/2015	3/31/2015	66	99	23
2 nd Quarter, 2015	4/1/2015	6/30/2015	38	134	22
3 rd Quarter, 2015	7/1/2015	9/30/2015	145	419	24
4 th Quarter, 2015	10/1/2015	12/31/2015	135	245	111
1 st Quarter, 2016	1/1/2016	3/31/2016	20	45	11

Tasks Current ON HOLD

- **Task 20 – Minnesota State Plan Decision Process: due by end of 2015**
 - Task **ON HOLD** until further definition of the SOW (decision by potentially by mid-September); need to confirm whether State Plan Decision guidance will be published in the FirstNet RFP
- **Task 6 – MOA, Standardize Templates:**
 - Task **ON HOLD** until further direction from NTIA
 - Progress to date listed in the Notes
- **Televate-IG to provide Invoices and Deliverables**
 - Acceptance Forms & Invoices are up to date
- **Upcoming Events, Travel, New Business:**
 - None yet

1 NOTES:

- **Task 17 – Data Usage/Traffic Profiles – CAD Data Manipulation**
 - Confirmed that Red Lake CAD data was incorporated in the phased build-out
 - Detailed analysis shows that the geocoding efficiency of the Bing tool worked poorly with tribal addresses (~17%); a comparison with Google Pro (2500 samples) resulted in a geocoding efficiency of 47%, Google Pro approach labor intensive
- **Task 3 – Tribal (On-Going)**
 - Minnesota Chippewa Tribes (MCT).
 - 17 participants from 6 tribal agencies (Bois Forte, Fond du Lac, Grand Portage, Leech Lake, Mille Lac, MN Chippewa Tribe)
 - Shakopee Mdewakanton Sioux scheduled for the October 27 (completed); no new coverage requirements, discussion centered on the tribal public safety entities, exiting systems, operational concerns and the expectations for the new network
 - 12 Nov Presentation Results:
 - Regional Presentation respecting the Tribal organization
 - At least 2 more meeting to schedule
 - Tribes will look to provide incident data for their jurisdictions
 - Continue updates to “Tribal Consultation Recommendations”; to include output from Governance
 - Governance Efforts:
 - Effort to develop plan for better engaging tribes on governance:
 - Call held with Anna Marie Hill, MN Indian Affairs Council 5/20;
 - Monte Fronk called on 6/4, he proposes that we organize a meeting with the Emergency Manager at Ripley at a date to be determined
 - Also interviewed Greg Hayes 6/18 (Shakopee Mdewakanton Sioux)
 - Also reach out to Mike Keyport (Grand Portage Ojibwe)
 - Need to keep a running list of coordination activities with the tribes as proof of our outreach efforts.
 - In the context of the Governance and MOA/MOU tasks, FirstNet does not expect the State to resolve all issues with regard to the tribes. FirstNet does expect:
 - The States to summarize what exists and to “characterize” the relationship with each Tribe
 - Indicate the level of tribal participation in the State’s governance structures
 - Highlight the issues that would impact the implementation of the network on tribal lands
 - We are expected to collate the points of contact at each tribe
 - We are expected to quantify the number of potential users at each tribe
 - Background Materials on tribes that were suggested for review:
 - Review of the United States Code, Title 16, Supremacy Clause
 - Review of the State’s Constitution wrt tribes
- **Task 16 – Public Safety Entity Operational Areas MNIT Status**

Overall Status	<u>Yes</u>	<u>No</u>	<u>Total # of PSAPs*</u>	<u>Current Date</u>
PSAPs that have supplied data	93	3	96	12/18/2015
<u>Datasets Received</u>				
Centerlines	26	70		

Minnesota Public Safety Wireless Data Network Requirements Project

Overall Status	<u>Yes</u>	<u>No</u>	<u>Total # of PSAPs*</u>	<u>Current Date</u>
Address Points	21	75		
PSAP Boundaries	59	37		
Emergency Service Boundaries	93	3		
City/Township/Unorg. Territories	80	16		
<u>Datasets Sent</u>				
To Televate for FirstNet**	93	3		

PSAP
Specifics

<u>Name</u>	<u>Datasets Received</u>						<u>Datasets Sent</u>
	<u>Date of Last Data Upload</u>	<u>Address Points</u>	<u>Road Centerlines</u>	<u>PSAP Boundary</u>	<u>Emergency Service Boundaries</u>	<u>CTU/Township boundaries</u>	<u>Date Sent to Televate</u>
Kanabec							
McLeod							
Red Lake Nation							

No Data

* Mayo Clinic Secondary PSAP is not included

** Empty datasets sent for Kanabec and McLeod (11/30/15)

● **Task 6 – MOA, Standardize Templates:**

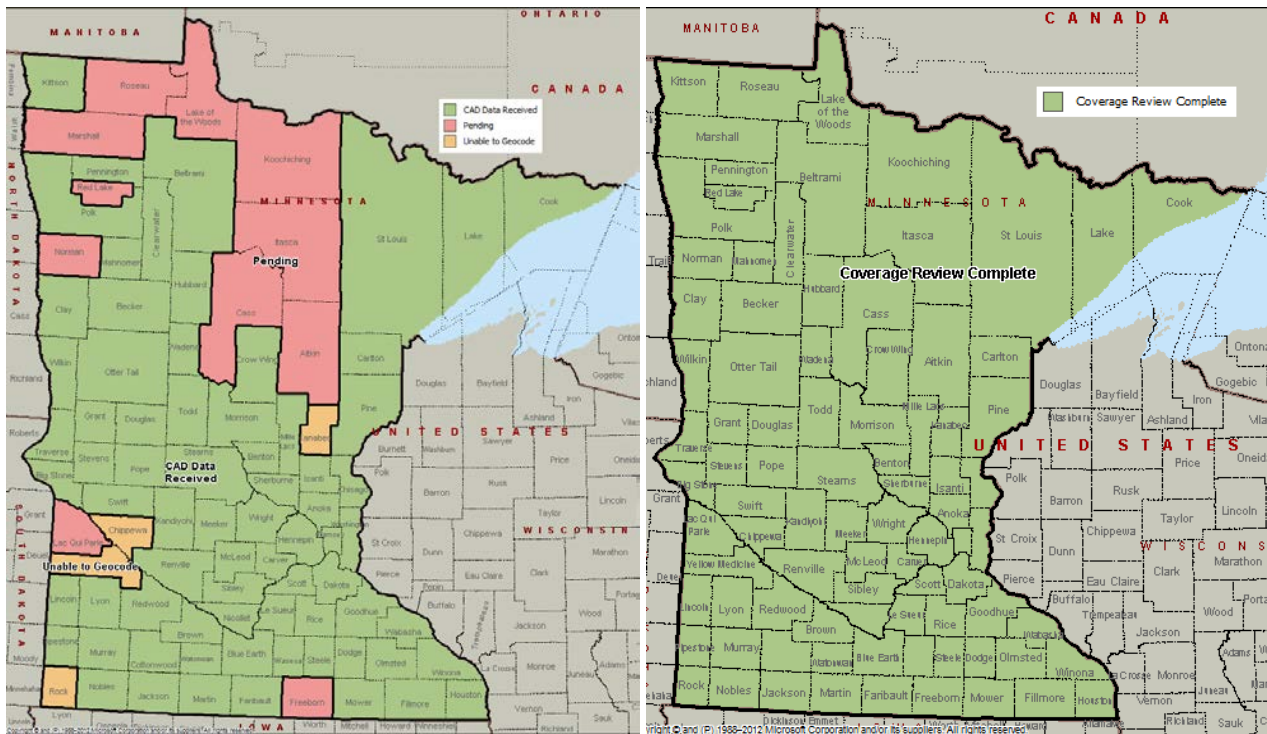
○ Progress to date

- Legal Document Report is in process and shall provide a rationale for the MOAs. It will also describe any legal/policy barriers or concerns raised by the MOAs.
- Team would like to coordinate a small group from OAG, MnIT, and MnDOT to further progress on the report
- Spoken with St Louis Co. (Hegrenes), St Cloud (Myers) and Rochester (Thomson). St Louis and St Cloud will be involved in the MOA development process, connecting me with their attorneys and sent or sending me lease samples. Rochester probably not so much (owns few assets, doesn't share today), but I will keep them on the email list so they can monitor content as it develops
 - MnDOT: Tim Lee, Shane
 - MNIT: Jim Johnson
 - OAG: pending
 - Central: Micah Myers
 - NE: Bruce Hegrenes
 - Rochester PD: Dave Thomson

● **Task 8 – Coverage Reviews**

Minnesota Public Safety Wireless Data Network Requirements Project

- Second coverage review with Capt. Perri was completed; Scott County Emergency Manager. Need to review the integration of requirements.
- **Task 14 – Phased Build-Out Strategy**
 - Task Complete
 - Agenda and description of the Regional meetings sent to all RICs.
 - Presentations Complete:
 - South Central COMPLETED: on 8 July, 10am central
 - Southeast COMPLETED: on 16 July, 11am central
 - Southwest COMPLETED: on 22 July, 10am central
 - Northeast COMPLETED: on 23 July, 10am central
 - Metro COMPLETED: on 28 July, 10am central
 - Northwest COMPLETED: on 12 August 9am central
 - Central COMPLETED: on 14 August, 10am central
 - Presentation of Findings to IDC on 22 September



Summary of those PSAPs who were not able to provide CAD Data

PSAP	Reason
Aitkin County PSAP	Part of a multi-county migration to Zuercher; prior vendor will not provide data. Response not received to re-request for CAD Data following Coverage Review.
Cass County PSAP	Part of a multi-county migration to Zuercher; prior vendor will not provide data.
Chippewa County PSAP	CAD data formatted as PDF. Could not geocode.
Freeborn County PSAP	No response from CIS following request/discussion of data.
Itasca County PSAP	Part of a multi-county migration to Zuercher; prior vendor will not provide data. New system went live August 2015.

Summary of those PSAPs who were not able to provide CAD Data	
PSAP	Reason
Kanabec County PSAP	Incident locations did not include cities. Could not geocode.
Koochiching County PSAP	No CAD system.
Lac qui Parle County PSAP	Data was indicated to be unavailable. However, went live with LETG 7/2014.
Lake of the Woods County PSAP	No response to request for data.
Marshall County PSAP	Response not received to re-request for CAD Data following Coverage Review.
Mayo Clinic PSAP	Unable to obtain data for security reasons.
Norman County PSAP	No response from LETG.
Red Lake County PSAP	No response to request for data.
Rock County PSAP	Incident locations did not include addresses. Could not geocode.
Roseau County PSAP	Response not received to re-request for CAD Data following Coverage Review.
Yellow Medicine County PSAP	Incident locations did not include street numbers. Could not geocode.

- **Task 18.01 – Response to 3rd Public Notice:**
 - Comments to FirstNet Third (3rd) Public Notice has been posted. The Third Notice focuses on the definition of "public safety entity," which determines the extent of FirstNet's legal authority to serve an entity as a primary network subscriber (as opposed to a secondary user under a "covered leasing agreement").
- **Wireless Contracts:**
 - State Contract – check back with Dale Stevens concerning the number of subscribers on each contract
 - GSA Contract – Mark to check in with contract administrator; no luck yet
 - Add questions on PSAP applications to the NG911 Survey; (from working group)
- Website: <https://dps.mn.gov/divisions/ecn/Pages/broadband.aspx>;
- **Additional Newsletter Topics:**
 - Coverage & Radio Propagation Basics
 - Differences between NPSBN LTE, Commercial Services & P25
 - Capacity Basics
 - Quality of Service Basics
 - Coverage Augmentation Strategies & Advantages/Disadvantages
 - Public Safety Broadband Devices
- **GIS Data**
 - Will need to coordinate with Danna Mackenzie, Danna.Mackenzie@state.mn.us, with regard to the phase 2 infrastructure assessment; however, the data will likely come from NTIA as GIS has restriction its release
- **Fire Chief Association:** Summary of key data points:
 - Bruce: has agreed to distribute the letter to every fire departments throughout the state
 - 780 fire departments throughout the state ~20,700 fire fighters
 - Some money available from old grants for travel expenses; volunteer only

- Bruce: can send us a link that contains the name and address for every fire department thought out the state of Minnesota
- **Bureau of Criminal Apprehension**; keep on the horizon when it comes time to assess applications
- **NTIA Officer**: Caroline Dunn