Fall 2015 SPOC Meeting
Meeting Summary

Westminster, Colorado
October 7 & 8, 2015

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APPENDIX A - ATTENDEE LIST 1

1. Overview

Building on the success of the Spring 2015 meeting for state and territory Single Points of Contact (SPOC), the First Responder Network Authority (FirstNet) hosted its second SPOC meeting on October 7-8, 2015, in Westminster, Colorado. The meeting gathered representatives from more than 50 states and territories, in addition to members of the FirstNet Board, the Public Safety Advisory Committee (PSAC), Tribal Working Group (TWG), and staff from the National Telecommunications and Information Administration (NTIA) to discuss the latest FirstNet and State and Local Implementation Grant Program (SLIGP) updates. Coming just days after FirstNet's October Board Meeting and the data collection deadline, FirstNet shared with the SPOCs the very latest information on their work toward planning and implementing the nationwide public safety broadband network (NPSBN).

SPOC Meeting Outcomes

- Engaged state and territory representatives
- Fine-tuned FirstNet planning activities based on input
- Shared best practices and lessons learned

The two-day meeting featured a series of topic-specific plenary and breakout sessions that covered the FirstNet acquisition process; Public Notices; consultation in 2016; data collection efforts; State Plan elements; SLIGP match; the Operational Architecture; and technical updates on network security, quality of service, devices, and applications. States and territories were able to share their efforts, successes, and challenges during sessions on the Early Builders projects, education and outreach, tribal engagement, work with metropolitan areas, and engagement with elected officials.

In addition, FirstNet stressed the importance of an open dialogue and discussion at the meeting—encouraging questions and comments on FirstNet's recent actions and planned activities. The FirstNet staff was particularly interested in hearing from the state and territory representatives about plans for the second phase of consultations and State Plan development in 2016.

Attendees raised the most questions and concerns about how the data each state/territory submitted to FirstNet will be used, what role the states/territories will play in the network beyond the State decision to proceed with the FirstNet-proposed State RAN plan or an alternative State-proposed State RAN plan, and how to keep public safety and elected officials interested and engaged in FirstNet through 2016 as the Request for Proposals (RFP) process is completed. They also provided substantial substantive feedback that will help inform the road ahead during a crucial year for FirstNet.

2. Meeting Day One

2.1 Opening Session – Plenary

Presenters:

- Amanda Hilliard, FirstNet Director of Outreach
- Michael Poth, FirstNet Chief Executive Officer
- Jeffrey Johnson, FirstNet Vice Chairman

Amanda Hilliard, Director of Outreach, welcomed the group, which included 130 state and territory representatives and members of the PSAC Executive Committee and Tribal Working Group, as well as attendees from federal agencies and a representative from Canada. Ms. Hilliard stressed that during the meeting, FirstNet would provide the latest information it had and was interested in hearing the ideas, experiences, and opinions of those gathered.

Mike Poth, FirstNet Chief Executive Officer, then greeted the crowd, telling attendees "you all represent the tip of the spear for FirstNet" and stressing the need to share as much information as possible. Mr. Poth then provided an update from the recent Board meeting:

FirstNet CEO Mike Poth

- FirstNet is pushing hard to release the RFP in December.
- The Board passed several resolutions, including approving the final acquisition approach of looking for a national solution provider.
- The Board came to resolution on 64 different interpretations from the Public Notices. They are still examining the definition of public safety entity.
- The Board also addressed the reinvestment of revenue, determining excess revenue will be reinvested into the nationwide network.

Next, Chief Jeffrey Johnson, FirstNet Board Vice Chair, welcomed the attending Board members—Neil Cox, James Douglas, Kevin McGinnis, and Rich Stanek—and gave regrets for Sue Swenson, who was unable to attend. Chief Johnson then stressed that by choosing a single national partner, FirstNet is looking for a single point of responsibility that can deploy the network quickly. It still provides an opportunity for and encourages rural carriers to team with the large provider. Chief Johnson also spoke to the responsibilities carried by those in the room to serve public safety in their state and territory, and FirstNet's responsibility both to public safety and to the federal government to build a strong, reliable network. The ultimate decision, he stressed, is at the user level: What will public safety do when they have a choice?

2.2 Plenary Session – Acquisition Update

Presenters:

- TJ Kennedy, FirstNet President

TJ Kennedy, FirstNet President, provided an update on the acquisition process, telling attendees that the overall objective is to get this solution into the hands of first responders as quickly as possible by choosing a single provider. FirstNet has the advantage of having its spectrum allocated and cleared, which means it can move right into deployment of the network. The RFP will be structured around performance-based objectives, and FirstNet will evaluate bidders based on six factors: Coverage and Capacity, Products and Architecture, Pricing, Business Management, Past Performance, and Use of Existing Infrastructure. Mr. Kennedy acknowledged

that FirstNet is working at record speed for a project of this size and scope, and emphasized that regular and robust input from stakeholders is key to FirstNet's success and momentum.

Key Questions/Comments
RFP Bidders
Q: In looking for one nationwide provider, do you have a sense of how many entities will be able to put together the scope of what you are hoping to provide? A: We are doing a lot of vendor outreach and are encouraged to date with the level of engagement from industry. Having more people at the table increases competition. This is not just about the large providers. The telecommunications landscape is changing. There can be great competition. Every one of us in this room needs to help get people to the table. We want to drive as many partnerships as possible.
Rural Carriers
Q: What is the practical side of smaller companies coming together in this large national opportunity? Would you want to see a state voice come together? What are the practical options that you envision? A: FirstNet has been talking to a lot of rural carriers. They are willing to aggregate if they think they will be included. There is not any one perfect size for rural aggregation. How it happens in Iowa, for example, is probably different than how it happens in Montana. Aggregating on a state or multi-state level will help these teams to form more quickly. In some cases, it may be important to participate on more than one team.

2.3 Plenary Session – Public Notice: Final Interpretations

Presenters:

- Kevin Green, FirstNet Legal Team

Kevin Green reminded the audience that FirstNet has published three Public Notices that address interpretations of its enabling legislation. The purpose of the notices was to solicit feedback on key decisions that FirstNet needs to make. Mr. Green thanked those in the room who participated in the Public Notice process and provided valuable inputs. The final interpretations will cover 64 key areas of planning and implementing the network. Mr. Green highlighted a few of the key interpretations for the audience. He then told the audience that interpretations from the first and second notice would be released soon and published in the Federal Register. (The final interpretations for the first and second Public Notices were published in the Federal Register on October 20.) FirstNet is continuing to evaluate input on the definition of public safety entity, and therefore, has not made any final determinations with respect to the third notice.

Key Questions/Comments
Timing
Q: Do you have a timeline for when the interpretations will be released? A: Our intention is for these interpretations to be released within the next couple of weeks.
State Competition
Q: In North Carolina, we have an act that prevents the state from competing against private entities. How can states handle that? A: We have heard that concern from other states. It is on our radar, and it is an issue we are considering.

2.4 Plenary Session – Panel Discussion: The Year Ahead

Presenters:

- David Buchanan, Director of Consultation
- Amanda Hilliard, Director of Outreach

- Ed Parkinson, Director of Government Affairs
- Richard Reed, Director of State Plans

The panel sought to reflect on the past year and discuss the following overarching and specific priorities for the year ahead:

1. Broaden consultation and outreach to inform network planning
2. Prepare governors for the State Plan decision
3. Prepare stakeholders for the adoption and use of the FirstNet network

David Buchanan: Consultation Priorities

1. Build relationships and build on the success of the initial consultations
2. Continue to reach a variety of audiences through a variety of engagements
3. Gather input on critical network topics through focused working groups

Amanda Hilliard: Outreach Priorities

1. Expand outreach through customized outreach to specific audiences
2. Understand and communicate the challenges and successes of state outreach efforts
3. Prepare users for network implementation and adoption

Ed Parkinson: Government Affairs Priorities

1. Understand the approval process in each state and prepare executives for accepting the State Plan
2. Deepen understanding of FirstNet with decision makers in each state and territory
3. Further develop relationships with the leadership of each state and territory

Richard Reed: State Plans Priorities

1. Ensure the submitted data from states is complete and clear and use that to inform the RFP and evaluation of proposals
2. Share the timeline and latest draft of the State Plan and gather input
3. Work toward creating an executable and implementable State Plan that is reflective of the state's goals and desires

2.5 Plenary Session – 2016 Consultation Overview

Presenters:

- David Buchanan, Director of Consultation
- Jeremy Zollo, Deputy Director of Consultation

David Buchanan, Director of Consultation, began the session by thanking the states for their work in the Initial Consultation meetings, which have been completed in nearly every state and territory. The highlights of that process, according to Mr. Buchanan, were getting to know so many new people, gathering input on the consultation process and FirstNet's activities, hearing about state and territory needs and challenges, and gaining a better understanding of the use and need for mobile data through the use case presentations.

In 2016, FirstNet is proposing three tracks to consultation, but Mr. Buchanan stressed that the process will evolve based on the feedback received from meeting participants. Jeremy Zollo, Deputy Director of Consultation, then went into a deeper explanation of each of the three tracks.

Track 1: Continue Relationship Building and Education

Mr. Zollo explained the goal of the first track is to identify the influencers in each state and territory to make sure FirstNet and the SPOCs are informing the right people and educating users about FirstNet. The goal is to get information to the fire chiefs, police chiefs, and paramedics who can really help users understand the value of the network.

Track 2: SPOC Working Sessions

The second consultation track will help FirstNet work through other consultation topics, such as training, hardening, local control, priority, and preemption. Mr. Zollo said their current thinking is to use facilitated sessions to work on those topics, but FirstNet needs additional input on how to structure those groups.

Track 3: Executive Engagement with Key Decision Makers

For the third track, FirstNet's Consultation team will work with the Government Affairs team and the states and territories to set up meetings with those who could influence the decision to proceed with a FirstNet-developed RAN or a State-developed RAN within that state or territory.

Representatives from more than 50 states and territories attended the Fall 2015 SPOC meeting.

2.6 Plenary Session – State Plan Process for 2016: What to Expect

Presenters:

- Richard Reed, FirstNet Director of State Plans
- Doug Harder, FirstNet State Plans Technical Liaison
- Brian Hobson, FirstNet State Plans Technical Lead

Brian Hobson, FirstNet State Plans Technical Lead, started the session by giving an overview of the state and territory data collected to date and thanking the states and territories for the tremendous inputs received. Mr. Hobson explained that FirstNet does not intend to just accept

the data and add it into the RFP: It will be a process to examine the data, follow-up with states and territories to clarify any issues, and then aggregate the data.

To answer the questions states and territories now have on how their data will be used, Mr. Hobson explained that all of the data received will inform the acquisition process and also be carried into the bidders library, now referred to as the "reading room" (a compendium of data that will be made available to potential partners).

FirstNet will consider taking late data submissions and will look at the need for additional data on a case-by-case basis, but late data submissions cannot delay the RFP process. The data collection effort asked for information on coverage, capacity, users, and current services. The fifth data element, which was not requested in this collection effort, is the State Plan review process within each state and territory. Mr. Hobson explained that the original deadline for this fifth element is no longer applicable, and that FirstNet will request this information following the release of the RFP.

Richard Reed, FirstNet Director of State Plans, reiterated that FirstNet heard loud and clear at the Spring SPOC meeting that states and territories will need as much notice as possible to review their State Plans. Mr. Reed said that FirstNet understands the dissemination of information is critical, but there are some time constraints as State Plans cannot be delivered until the RFP has run its course.

When the acquisition is complete and the partner or partners are in place, FirstNet will work with the partner(s) to start developing the State Plan. Mr. Reed stressed that FirstNet is going to work to make sure the State Plan that is developed meets the state/territory's needs and shows the governor and public safety in the state/territory FirstNet's value proposition. States will see State Plan elements and a draft of the plan in advance, but when the plan is final and delivered, FirstNet needs the shortest approval timeline possible. FirstNet cannot start implementation and cannot start making an impact with public safety until the governor has made a decision.

Mr. Reed then explained that the State Plans will be delivered through an online portal. He also acknowledged that FirstNet is sensitive to the fact that there is information that the states and territories will not want public. The online portal offers the best way to share information with those who need it while protecting what is sensitive.

Key Questions/Comments
Data Submissions
Q: You mentioned an online portal to submit sensitive data. We have already submitted much of that using Communications Asset Survey Mapping (CASM) tool data. A: CASM is a great resource, but it is not the portal we will use for the online State Plans.
Follow Up on Use Cases
Q: Will FirstNet do a follow up call to go over use cases in addition to data submissions? A: That is something that is on our radar. What kind of feedback and dialogue do you want us to provide?
Timeline to Review State Plans
Q: Before the 90 day deadline for the governor decision begins, is there going to be time for states to see the draft State Plan? A: FirstNet will socialize the State Plan template so you know what elements will be in the plan. We are planning to release that information as part of the RFP and then discuss in detail during 2016 Consultations. We are not going to have access to much of the information until the RFP is complete. The first time we will have that information available to us will be post

Key Questions/Comments
award. A completed draft State Plan will be shared and discussed prior to the delivery of the final State Plan.

2.7 Breakout Session – State Plan/Data Collection

Presenters:

- Richard Reed, Director of State Plans
- Brian Hobson, FirstNet State Plans Technical Lead
- Douglas Harder, FirstNet State Plans Technical Liaison

Meeting participants divided into two breakout sessions to discuss and ask questions around data collection and State Plan development, delivery, and review. FirstNet was seeking input to help validate, amend, or improve the proposed State Plan schedule, elements list, and delivery method.

Key Takeaways

1. Stakeholders sought to clarify how data will be aggregated to include federal and tribal users, how data will inform State Plans, and what a governor's options will be in reviewing the State Plan.
2. Many states/territories were seeking clarification on the role of the state/territory in the plan and how the state/territory's role could impact the governor's decision.
3. Stakeholders responded favorably to the idea of using an online portal to present the State Plan, but indicated that some parts will need to be presented on paper, such as the executive summary to the governor.

Key Questions/Comments
Data
Q: Will data in the reading room be available to other states? A: FirstNet's intention is to make it available to everyone.
Q: With respect to the vendors that respond to the RFP, will they be under strict requirements to keep sensitive data private and not use it beyond the purposes of FirstNet's proposed network? A: Sensitive data (i.e., information not for public release) should not have been provided in the data collection effort. If there was, we can still remove it prior to the data going into the reading room.
Q: We segregated our data into tribal and non-tribal. Will that be overlaid? A: We will present coverage independent of the source. We are looking to get the ask right so the answer reflects the user needs. We are not splitting coverage into federal, tribal, state, and local needs.
Q: Going back to the question of: "What is missing from the list?" It appears that tribal interests are missing. Where will tribes be involved in the State Plan? A: The current list is reflective of tribal input. Tribal input, to the extent it is received, will be inserted into each of the listed elements. However, if there is a need to present the elements differently, FirstNet is open to suggestions. The critical point is that tribal needs will be represented in the appropriate State Plans.
Q: When the state data does not align to the FirstNet data, how will you handle the difference? If something submitted is erroneous, what will need to be done? A: If we see trends or averages that are not aligned, it will trigger a flag. We will demonstrate the difference between what we are seeing and what you submitted, and then verify whether you would like to adjust your data. We can also look at any possible errors that need to be corrected to ensure the most accurate data is included in the RFP. The goal of the follow-up call is to come to resolution, so we will give you time to prepare. Our goal is to accept and use state input.
Timeline
Q: Does the review period of a draft State Plan count towards the 90-day decision period?

A: The initial review of the draft is not part of the 90-day governor's review period.
Q: Are the State Plans going to be delivered individually to each state one-by-one or all together? A: One of the benefits of an online portal will be the ability to share information among states and get information to states as soon as possible. If we create one portal, we believe we can make plans available to everyone at the same time.
State Role
Q: What will happen next after a state opts-in? What resources will be expected? A: There is nothing in the statute that requires a state to opt-in, but only to inform FirstNet if the state will opt-out. To the specific question, there is no obligation for an opt-in state other than to continue to communicate with FirstNet. On the other hand, if a state opts-out, there will be a long list of requirements the state must follow to complete the build-out itself.
Q: What is the state government's role under the State Plan? What does local control mean? This information will be really important to call out explicitly in its own section in the State Plan? A: We are working on defining those relationships, specifically identifying priority and how it would be managed.
Online Portal
C: I like the idea of an online portal for State Plan delivery. Some of the information will need to be downloadable. **C: When anything changes on such a portal, there should be a function that flags those changes or adjustments to make it easier for a state to quickly recognize changes.**
C: To make a decision, we have to understand the level of effort and specific requirements for implementing this network. It would be helpful to see a high-level architecture to see if we can handle it. A: This is a good example of what we will need to include in the State Plan. We are striving to identify the elements, but not all of the answers, like high-level architecture, will be available until post-RFP award.

2.8 Plenary Session – SLIGP Update

Presenter:

- Mike Dame, SLIGP Program Director

Mike Dame, SLIGP Program Director, stated how pleased he was to be at the meeting and working in collaboration with FirstNet. He then summarized metrics on work under SLIGP:

- The median number on outreach is just over 1,000 stakeholders engaged in each state/territory.
- The average number of governance meetings is 21. All states and territories are reporting some meetings.
- States/territories have distributed thousands of outreach materials. One state is 40 percent of that number.
- The average number of staff members is two people per state/territory.
- There have been a lot of efforts around data collection recently.

On the financial aspects, Mr. Dame explained that SLIGP has started having candid conversations about burn rates with some states/territories. The rationale is to better understand state-by-state if there will be money left on the table. Mr. Dame also explained that many states submitted for modifications to meet the aggressive data collection timelines, and he urged those states that have not submitted their modification packages to do so as soon as possible. The SLIGP team also presented additional information during breakout sessions and plans to share some best practices and case studies on the NTIA website.

2.9 Plenary Session – Panel Discussion: Technical Updates

Presenters:

- Jeff Bratcher, Chief Technology Officer
- Pat Schwinghammer, Director of Radio Access Network (RAN)
- Lynn Bashaw, Director of Network Operations
- Joe Martinet, Director of Devices
- Mark Golaszewski, Director of Applications
- Dean Prochaska, Director of Standards
- Brian Kassa, Director of Technology Planning and Development
- Glenn Zimmerman, Senior Security Architect

FirstNet Chief Technology Officer Jeff Bratcher

Jeff Bratcher, FirstNet Chief Technology Officer, introduced the FirstNet technical staff and relayed that the group's two areas of focus are helping to develop the RFP and supporting the Early Builders projects. Each member of the group then provided a brief description of his focus area, which included the RAN, network operations, devices, applications, standards, planning and development, and security.

Key Takeaways:

- FirstNet requested State support in asking device companies about Band 14 inclusion and plans for Band 14.
- FirstNet recognizes the need to support a robust bring your own device environment, including the support of approved devices, development of recommended guidelines, etc.
- The team is developing a strategy around applications that enable public safety adoption while leveraging the scale and technologies of the commercial market.
- The needs of public safety should drive innovation. FirstNet wants to support a vibrant public safety developer community and a growing portfolio of public safety applications.
- The goal is the secure coexistence of FirstNet and commercial applications on devices.
- Team members are examining security requirements and planning for the evolution of the network across five, ten, and fifteen years.

Key Questions/Comments
Q: On devices, what are the current thoughts on getting devices to have Band 14 capabilities? A: It will be difficult to get Band 14 capability into devices since the business advantage is non-existent for the major carriers at the moment. We need help from the states to continually discuss the issue with vendors.
Q: Will the RFP point to the technical requirements included in the Federal Communications Commission's Technical Advisory Board Interoperability Report? A: Yes, the RFP incorporates those requirements, but the FirstNet RFP is a statement of objectives RFP.
Q: With respect to application standards, embedded applications, and phone dialers, how would you change those? Is it going to change? Will the phone dialer work differently on NPSBN than it does today? What standards will be set for back-end of applications? A: The intention is *not* to change what is already out there. The NPSBN will leverage 3rd Generation Partnership Project standards and will push to augment existing technology to benefit public safety.
Q: There are tons of local applications that public safety is already using in many areas. If we do not allow them to bring their local applications, they will not come to NPSBN. How do we deal with this? A: We fully expect applications in use today to be used on NPSBN.

2.10 Plenary Session – PSAC Update

Presenter:

- Harlin McEwen, PSAC Chairman

Harlin McEwen, PSAC Chairman, explained that the PSAC is a 42-member group that advises FirstNet on many aspects of network development and planning through a series of working groups and task teams. The working groups and task teams are currently focused on:

- User Equipment
- Priority and Preemption
- Public Safety Grade
- Tribal Outreach, Education, and Consultation Strategies
- Early Builder Working Group

2.11 Closing Session – FirstNet Board

Presenters:

- Kevin McGinnis, FirstNet Board
- Richard Stanek, FirstNet Board

Kevin McGinnis stressed that FirstNet will dramatically change what the emergency medical service (EMS) does in the field and showed a short video. Richard Stanek told the group how much he believes in the capabilities FirstNet will provide. He also stated that he understands the common concerns (e.g., price, priority) and encouraged all interested parties to engage actively with FirstNet staff and Board members.

3. Meeting Day Two

3.1 Opening Session – Plenary

Welcoming Remarks
Presenters:
- James Douglas, FirstNet Board Member
- TJ Kennedy, FirstNet President

Governor James Douglas, FirstNet Board Member

TJ Kennedy welcomed participants back to the second day of the meeting, stating that he has been encouraged to hear all of the conversations happening inside and outside of the meeting rooms. Governor James Douglas also welcomed attendees and thanked them for taking time out of their busy schedules to be present. Governor Douglas mentioned the recent campus shooting in Oregon and an even more recent train derailment in his home state of Vermont and stressed how important FirstNet will be in every part of the country when these types of events occur. Governor Douglas then shared that his role on the FirstNet Board is to be the voice of the states and territories: One size does not fit all when it comes to the 56 states and territories, and all involved have to remember it will be a different approach in each case. Governor Douglas urged the state/territory representatives to stay involved in data collection and designing network strategy going forward.

3.2 Breakout Session – Regional Discussion Groups

Presenters:
- Northeast Area: David Cook, Claudia Wayne, Richard Reed, Tom Shull, Yuki Miyamoto (SLIGP)
- South Area: Victoria Lee, Jeremy Zollo, Chris Algiere, Jamel Vinson, Mike Dame (SLIGP)
- Midwest Area: Tim Pierce, Amanda Hilliard, Keil Green, Justin Shore, Doug Harder, Natalie Romanoff (SLIGP)
- West Area: Keone Kali, Steve Noel, Brian Hobson, Jeanette Kennedy, Carolyn Dunn (SLIGP)

States and territories gathered in four regional groups to discuss consultation activities in 2016. FirstNet's proposed 2016 State Consultation plan consists of three tracks:

- Track 1: Continued Relationship Building and Education
- Track 2: SPOC Working Sessions
- Track 3: Executive Engagement

Session Outcomes
State Inputs
• Several states/territories explained the challenge to sell the NPSBN to leadership and users without a physical network or physical proof of the impending network's capabilities to show. • FirstNet and attendees openly discussed the value of implementing topic-specific working groups and debated the potential challenges (e.g., resource, time constraints on states/territories). Attendees also wanted more clarification on the exact assignment regarding the proposed topics these groups would address. • Questions reemerged from stakeholders about the need to better define the state/territory's role in the State Plan. • FirstNet's Government Affairs team reiterated its willingness and readiness to assist SPOCs with executive-level outreach. Many SPOCs stressed that FirstNet should not engage with State leadership or organizations without first touching base with the SPOC.
FirstNet Follow Ups
• The Regional Discussion Groups Participant Workbook will be sent out to participants electronically so state/territory representatives have more time to respond and return it to FirstNet. The Workbook was subsequently disseminated to attendees on October 16 and all SPOCs on October 19. • The feedback received will help FirstNet structure 2016 consultation activities.

3.3 Breakout Session – Early Builders Update and Panel

Presenters:

- Victoria Lee, FirstNet Association Manager and PSAC Liaison
- Panelists from LA-RICS (Pat Mallon), ADCOM (Mike Brunswig), JerseyNet (Fred Scalera), New Mexico (Jacqueline Miller), and Harris County (Todd Early)

FirstNet's Victoria Lee opened the session and informed the group that the Early Builder Working Group (EBWG) exists under the PSAC to provide FirstNet with real-world strategies and lessons learned. Ms. Lee introduced all of the participants who then recapped the history, status, and lessons learned to date on each project.

Panelist: Patrick Mallon, Los Angeles Regional Interoperable Communications System (LA-RICS)

Pat Mallon, with LA-RICS, shared that the project currently has 63 fixed sites up, with 13 of 15 cells on wheels (COW) in place; 3,300 vehicle modems in stock and being installed; and implementation, system testing and optimization underway.

Panelist: Mike Brunswig, Adams County Communications Center (ADCOM)

Mike Brunswig then shared that the ADCOM project is fully on-the-air, including 16 sites with an additional three sites at the Denver International Airport awaiting power. Currently, public safety users are on the network and feedback has been positive, especially from rural users who had no coverage prior to the network's implementation. Thus far, ADCOM has distributed 75 vehicular modems, along with dongles, and the project is working with New Mexico to integrate each project's RAN so each state may monitor the other's network.

Panelist: Fred Scalera, JerseyNet

Fred Scalera, with JerseyNet, reported that all three regional subnets of the system (Route 21 Corridor, Atlantic City, and Camden) are now deployed on the Garden State Network. Then, Mr. Scalera spoke in detail about the 2015 Papal Visit, during which the network averaged about 40 users. JerseyNet peaked at about 4.5GB/hour of total download usage during the busiest periods

of the event and feedback was positive on data speeds. Users also reported no issues when switching between Band 14 and commercial networks, stated Mr. Scalera.

Panelist: Jacqueline Miller, New Mexico
Jacqueline Miller briefed attendees on New Mexico's early builder project, which consists of six permanent sites and one deployable. Ms. Miller discussed her team's connection to the ADCOM system, reporting the connection is seamless both technically and on a relationship level. The New Mexico network debuted at the 2015 New Mexico State Fair and was employed during the Albuquerque International Balloon Festival with up to 70 devices in use by federal, state, and local end users.

Panelist: Todd Early, Harris County, Texas
Finally, Todd Early reported that 19 sites are currently deployed on the Harris County, Texas, early builder project. Mr. Early also explained that the project is unique in that Harris County has allocated $5.8 million to complete mobile coverage.

Key Lessons Learned from the Early Builders Projects
• New construction can expose projects to deployment delays caused by public and special interest objection. • Complex state and agency approval processes pose a significant risk for use of existing public safety assets. • Outreach, communications, and marketing to end users are critical and should not be limited to the administrative/executive level. • The additional complexity of an LTE service offering results in significant operational processes and procedures. • The involvement of multiple state agencies requires strong service level agreements and network operations center integration. • Custom development is required to produce meaningful performance metrics. • Deployable assets must be designed to fit where they need to go. • Security discussions should occur early in the project. • Microwave design can leverage Lidar data, if it is available. • Static Internet protocol (IP) configurations are required for some agencies and applications. • Federal agency participation requires engagement at national, regional, local levels. • Initial data analytics show higher downlink than uplink usage (similar to commercial). • User adoption for vehicle modems is highly dependent on vehicle maintenance and budget cycles. Outreach needs to be started now to handle this challenge • Vendor management is key.
• *Comment: Several attendees thanked the early builder representatives for their hard work thus far and for serving as front-runners for the rest of the nation.*

3.4 Breakout Session – Education and Outreach Lessons Learned

Presenters:
- Amanda Hilliard, Director of Outreach
- State Panelists from Colorado (Ed Mills), Illinois (Joe Galvin), Michigan (Laura Blastic), and South Dakota (Mike Waldner),

Amanda Hilliard shared FirstNet's education and outreach goals for 2016 and outlined new efforts to employ a customer relationship management (CRM) tool and look into creating a site that would allow SPOCs and others to share documents and information.

Panelist: Ed Mills
Ed Mills of Colorado talked about how his state has leveraged videos as a way to get conversations going about FirstNet. The state has also used its own website, newsletter, and social media to spread the word, along with offering to write articles for outside publications as a way to expand audience and reach.

Panelist: Joe Galvin, Illinois
Joe Galvin stressed that solid outreach is linked to a strong governance structure. Illinois has made efforts to ensure all disciplines are represented– law, fire, EMS, health, transit, dispatch, utilities, public works, technology, and private companies. Mr. Galvin also stated that its outreach efforts touched every one of the 80 counties in Illinois. It also engaged state government, is working with associations, and planning engagement with federal agencies that operate in the state. The end game, Mr. Galvin said, is to create an environment where people want to learn more. More on Illinois's efforts is here.

Panelist Laura Blastic, Michigan
Laura Blastic shared information on the in-house CRM tool Michigan's Public Safety Broadband Program created through SharePoint. The tool links events, contacts, and organizations, allowing Michigan to better track its outreach and educations efforts and meet SLIGP match requirements.

Panelist Mike Waldner, South Dakota
Mike Waldner discussed the unique challenges of FirstNet outreach and education in South Dakota, which has only 11,000 first responders across its 77,000 square miles. Many departments are volunteer and most serve towns of 500 people or less. To reach this dispersed potential user base, South Dakota used association meetings, sent letters, and used postcards as part of its data collection effort. The state has leaned most on virtual outreach, however, keeping its website current and using Facebook, Twitter, and email to keep people informed and involved.

Key Best Practices Identified by Panelists
Education and Outreach
• Work to build trust and let the audience know that FirstNet is a tool in the toolbox. • Use outreach to build a communication path to provide or ask for information. • Have a broad target audience. • Keep websites updated and let social media help make connections and keep stakeholders informed. • Talk to stakeholders individually. It can be key to really getting buy-in. • Go to all meetings – big or small—you never know who will be in the audience. • Tailor presentations to the audience

3.5 Breakout Session – Federal Engagement

Presenters:

- Chris Algiere, FirstNet Federal Outreach and Consultation
- Panelists from Alaska (John Rockwell), the Department of Defense (Joseph Wassel), Idaho (Rob Feeley), Louisiana (Allison McLeary), North Carolina (Red Grasso), and Washington, D.C. (Jack Burbridge)

Chris Algiere, who leads FirstNet federal outreach and consultation, briefed session attendees about Federal Consultation, explaining that there are currently 14 federal agencies that are the primary targets for FirstNet based on their public safety role or because they are a land manager. Federal agencies were asked to complete the same Initial Preparation Checklist and Data Collection questions as the states and territories. Mr. Algiere stressed that FirstNet needs more input on how it can support state/territory engagement with federal agencies.

Panelist: Joseph Wassel, Department of Defense (DoD)

Joseph Wassel explained that DoD has a presence throughout the country, and it is working to figure out how to partner with states and territories on FirstNet and how to complement the state/territory's vision. Mr. Wassel pointed out that DoD is involved in mutual aid with state/territory and local agencies every day, and it wants to make sure a state or territory's governor can do everything he or she wants when there is an incident. Mr. Wassel also informed participants that DoD wants to engage with the states and territories and can offer support at the executive level.

Panelist: Jack Burbridge, Washington, D.C.

Jack Burbridge shared that because of D.C.'s clear need and interest in working with federal agencies, it has already participated in some federal engagement. He then explained that engagement can be a challenge because there is not always top-down information sharing in federal agencies, and there can be a disconnect between the understanding of headquarters and those in the field. In addition, although D.C. works with federal agencies all of the time and has tried to collect the best possible data, it is difficult to know how many users the system could have on any given day.

Panelist: John Rockwell, Alaska

Alaska is in a unique position because it already has participation from 22 federal agencies in its LMR system, John Rockwell stated. Federal agencies are on board in Alaska, and they have participated in the consultation process to listen and bring back the information to their agencies. Mr. Rockwell stressed that the challenge is engaging the right federal partners.

Panelist: Red Grasso, North Carolina

Red Grasso shared that in North Carolina, the governor has placed an emphasis on being military friendly so the military has been a large focus of outreach activities. Mr. Grasso said it is looking to engage more federal agencies, but the challenge is knowing who is in the state and how they are operating. North Carolina is currently working to set up meetings for federal partners to make sure they have a place at the table.

Panelist: Allison McLeary, Louisiana

Allison McLeary shared that post-Hurricane Katrina, local agencies in Louisiana have become more engaged with federal partners and have emphasized coordination, training, and governance across all levels of government. In both day-to-day operations and emergency incidents, federal responders must be integrated into the overall response activities in Louisiana. With an offshore oil port, the harbor police and sheriffs work with the Department of Energy on a daily basis. The BP oil spill also required state and local agencies to work through long operational periods with the Coast Guard, Environmental Protection Agency, U.S. Fish and Wildlife, and National Oceanic and Atmospheric Administration. Ms. McLeary emphasized that FirstNet could improve interoperability and provide increased situational awareness across levels of government in Louisiana.

Rob Feeley, Idaho

Rob Feeley enumerated three important things to consider regarding federal users: First, he stated, they are part of the user base, and in a state like Idaho, which has a large amount of federal land, they can be a large part of the user base. Second, it is important look at how your state or area responds together with federal agencies so you can use FirstNet as an opportunity to improve interoperability and operational capabilities. The third important element is to look to potential partnership opportunities. Mr. Feeley reminded attendees that while state and local agencies have a certain expertise, federal users can bring in other assets and experiences.

Key Questions/Comments
Q: Is the federal information going into the State Plan? A: Yes, we want to be as complete as possible. When you look at the overall picture of public safety activities in the state, you have to be inclusive of federal agencies.
Q: Federal information is not being shared with the states at this time. There are some items that the state may not be aware of, but that will end up in the State Plan. We do not want surprises in the State Plan. How can we avoid being surprised? A: The goal of the data collection is to figure out what coverage objectives are important. FirstNet developed coverage objective maps, but it does not have subject matter expertise. We asked the states to tell us what we do not already know. We have asked the federal agencies to do the same. We are then going to provide that information in the RFP. The bidders are going to present a proposal that addresses all of the inputs from all of the interested groups – federal, tribal, and state. This will then go into the State Plan.
Q: Are you going to expand your list of 14 agencies to include the Environmental Protection Agency and others? A: As FirstNet grows its capacity, we intend to expand to include the U.S. Postal Service, Amtrak, and others. Opportunities exist to establish partnerships. The challenges are: Who is available and who is willing?
Q: In terms of priority, who determines where federal users fit? Right now, state input is supposed to set priority, so who considers where federal users come in? A: My impression is that the system can accommodate roles within the network. We need to initially understand the space and who is there. We do not want to kick anyone off; however, there may be degradation depending on your role. It is not a binary decision any more. Where it becomes especially critical is a Katrina or Gulf Response-type effort.

3.6 Breakout Session – Governor and Elected Officials Engagement

Presenters:

- Ed Parkinson, Director of Government Affairs

- State Participants from Guam (Leigh Pareda), Hawaii (Victoria Garcia), Texas (Todd Early), and Virginia (Adam Thiel)

Ed Parkinson, FirstNet Director of Government Affairs, opened the session by telling attendees that the goal of the Government Affairs team is to work in collaboration with the FirstNet Consultation team with the SPOCs and the states/territories to provide the right information to the right people in the right manner. Mr. Parkinson stated that engagement with elected officials must be a collaborative process; with the state/territory providing State-specific information and FirstNet ensuring the states and territories are informed of FirstNet's efforts and supported in their engagement activities.

Other key points:

- One of the Government Affairs team's goals is to provide information to the states/territories as soon as possible after congressional interactions. It is also helpful if the states/territories can provide specific information to the Government Affairs team to use during congressional outreach.
- FirstNet executives will be meeting with governors in 2016. They will also meet with other key influencers and keep SPOCs updated on their progress. FirstNet needs to hear from the SPOCs on who those influencers are and who needs to be in the room.
- With a new governor, meetings need to occur sooner rather than later. It is important for FirstNet to understand the transition timeline and team.
- For governance board meetings, FirstNet recognizes that it needs to remain flexible and engaged with the states and territories to determine the appropriate time to meet with the governor.
- The Government Affairs team will also focus on chiefs of staff, deputy chiefs of staff, and policy advisors.
- It is important to start these meetings early so that the executives are not discussing FirstNet for the first time when the decision to proceed with the FirstNet-developed State RAN plan or to pursue a State-developed alternative RAN plan arises.
- The Government Affairs team needs to engage with mayors, county commissioners, and State representatives. FirstNet cannot do this alone; it will need to work with the SPOCs to develop relationships.
- There is an annual report due to Congress by February 22 each year. That would be a great resource to states and territories for executive engagement.

Key Best Practices Identified by Panelists
• Be prepared for the governor to ask, "What else have you looked at?" Make sure you have done the due diligence on all options. • It is also important to understand that every decision the governor makes is political. Understand how to appropriately frame the discussion. • It is important to note that states/territories are at different levels of engagement. FirstNet needs to recognize this and remain flexible in terms of resources and attending meetings. • Be aware of election cycles, staff changes, and transitions. Make contact early if new leadership is coming in. • It is very important to have that direct relationship with the governor's office and keep the office up to date. Invite staff from the governor's office to events.

Key Best Practices Identified by Panelists
• Understand and adapt to the culture of your state/territory. • Do your homework before going into a meeting.

3.7 Breakout Session – How to Meet and Document SLIGP Match Requirement

Presenters:

- Natalie Romanoff, Carolyn Dunn, Yuki Miyamoto, and Mike Dame

The SLIGP officers explained the most common ways to match funds and answered specific questions from states and territories.

Key Questions
Q: Someone who is matching 100% on a different grant may not provide SLIGP match, but someone who is only a 20% match on another grant; however, may contribute to match on SLIGP as long as the time is not also charged to the other grant that they support? A: That is correct.
Q: Do we have to ask people for their salary or rank? A: We understand that this is sensitive information. You may have access to their salary information. If you do not, there are other sources that you may use to come up with a rate for volunteer time.
Q: Could an unpaid intern contribute to match? A: Yes, his/her time must be accurately valued, however.
Q: May an employee round/estimate their hours spent? A: Employee contribution should be tracked via time sheets. An example is provided in the packet.
Q: Is asset and infrastructure data collection still an unallowable cost? A: Yes.

3.8 Breakout Session – Metropolitan Engagement

Presenters:

- Claudia Wayne, FirstNet Senior Advisor to Consultation
- State Panelists from Arkansas (Penny Rubow), Connecticut (Mike Varney), and Washington (Bill Schrier)

Claudia Wayne, FirstNet Senior Advisor to Consultation, went over the goals of the session and introduced the panelists. Because the FirstNet legislation requires the network to be self-sustaining, metropolitan areas will provide an important user base. Ms. Wayne also stressed that metropolitan areas involve complex systems, sophisticated uses of applications, large operating budgets, dense building environments, underground structures, population shifts, large-scale planned events, and a significant federal presence.

Key Best Practices Identified by Panelists
• Find a FirstNet advocate in each metropolitan agency and support them as an evangelist. • Metro chiefs and elected officials can often be focused on immediate needs, so it takes some effort to keep them focused on a network that is years away. • Create metropolitan working groups and assign them work to which they can apply their expertise. • Because population centers usually have strong coverage, it is important to demonstrate the advantages FirstNet offers over private carriers, including priority, identity management solutions, increased capacity, and a robust deployables solution.

Key Best Practices Identified by Panelists
• States should continue to work to understand the unique needs of metro areas. • States should include metro representatives on their governance bodies.

3.9 Breakout Session – Operational Architecture Overview and Feedback

Presenters:

- Zachary Smith, Emergency Management Specialist

Zachary Smith, FirstNet Emergency Management Specialist, provided a summary of the Operational Architecture (OA), including its purpose, the functions within, and its significance to the overall process of network implementation. Mr. Smith explained the OA's eight top-level pillars and summarized the significant feedback FirstNet received through the Special Notice (April 27, 2015) posting. As a result of the more than 10,000 inputs received from the public, FirstNet was able to update and more accurately develop an OA that represents how the organization and the stakeholders view it. Lastly, Mr. Smith shared numerous statistical findings surrounding the Special Notice responses as a result of a significant data analysis effort performed by FirstNet.

Key Questions/Comments
Q: What are the specific responsibilities within the blue functions (those owned by public safety)? What are costs associated with these functions? A: The blue functions are owned by a combination of local public safety entities and the states. Blue functions vary dramatically between various states and entities; many of these functions are already being executed by large public safety agencies or are executed through shared service agreements and as such the costs are already understood by the entities executing them.
Q: For smaller agencies that do not have the blue responsibilities today, who would take over those functions? A: This would have to be looked at on a state-by-state basis, where industry or the state could take on the responsibility if necessary.

3.10 Breakout Session – Quality of Service, Priority, and Preemption

Presenters:

- Tracy McElvaney, Public Safety Communications Research (PSCR) Program Engineering Supervisor
- Brian Kassa, FirstNet Director of Technology, Planning & Development

Brian Kassa, FirstNet Director of Technology, Planning, and Development, and Tracy McElvaney, PSCR Program Engineering Supervisor, began by defining quality of service, priority, and preemption (QPP). QPP is the end-to-end priority vision for the network and the ability to change things dynamically and make the most efficient use of the spectrum. By 2030, there will be approximately 14 million public safety LTE devices in North America. Mr. McElvaney then explained how the needs of public safety and first responders are diverse and discussed how FirstNet's NPSBN will address these unique characteristics. Specifically, he broke down the differences between commercial priority vision and public safety priority vision.

Mr. Kassa closed the session with a brief explanation of the current QPP framework that the PSAC helped develop. He explained the structure's static, dynamic, and controlled phases and also explained that an application within the QPP framework is any use of the network (e.g., making a phone call, sending a text). For each one of these uses of the network, FirstNet has a priority set. Using this information, FirstNet can create operation profiles. Each first responder has approximately 10 application profiles so when a first responder responds to a scene or emergency, the proper profile is applied depending on the situation.

Key Questions/Comments
Q: With LTE, there is no ruthless preemption like in LMR, correct? A: It looks like ruthless preemption, but it is slightly different within LTE. Preemption capability determines whether a bearer with a lower Allocation Retention Priority level should be dropped to free up the required resources.
Q: In a deployables scenario, who is going to do the engineering to deploy? A: FirstNet does not know at this time. The objective right now is to look at how an offeror will handle deployables overall. Although FirstNet is not yet at that level of detail, it plans to provide it.
Q: Are there any technology advantages in Band 14, specifically when looking at the commercial versus public safety visions? A: There is no real advantage or disadvantage other than the fact that FirstNet has 20 MHz of spectrum nationwide.
Q: Are bearers tied to one cell site? A: In LTE, you have one active cell at a time. The device will control preference of cell options on-hand once it recognizes the congestion from closer cells.
Q: With automated dispatch, how will the network know what the event is if different first responders are going to the same scene? A: FirstNet has been working with the PSAC for the past year on this topic. The QPP framework is a methodology/approach that was recently developed by FirstNet with the help of the PSAC. The framework helps FirstNet explain QPP to end users now when many of the details remain unknown.
Q: How many users will it take to force a device to change to another cell site? Did you put any maximum bitrates on your priority and preemption framework? A: Right now, FirstNet is setting limits and cannot put a number or even a number range on it.
Q: Does Voice over LTE (VoLTE) have a higher Quality of Service Class Identifier (QCI)? A: VoLTE uses a dedicated, guaranteed bitrate bearer (second highest priority bearer).
Q: If we are doing a dynamic approach and everyone is a priority, priority is nullified. Local control will have to elevate the true priority (QCI), correct? A: Yes, local control can go in and adjust QCI. For example, you can move a SWAT team from QCI 6 to 4 or move all other users down to elevate SWAT.
Q: First responders wear many different hats during an emergency. As a result, roles can change very quickly. If it is automated, we could run into issues. How do you respond to this challenge? A: FirstNet needs to address issues like the examples you provided. However, initially, FirstNet needs to develop a framework that fosters the required capabilities. Then, after the generic framework is developed, FirstNet needs to take a step back and look at specifics.
Comment: Several attendees voiced that the content presented during this session should be included in 2016 consultation efforts and used as a "selling point" for the impending network.

3.11 Breakout Session – Tribal Engagement

Pictured from left to right: Mark Openshaw, Robert DesRosier, Heather Hudson, Harrell French, Michael Bird, Randell Harris, Richard Broncheau, Carl Rebstock, and Shelley Westall

Presenters:

- Carl Rebstock, National Tribal Government Outreach
- Tribal Working Group Members (Michael Bird, Richard Broncheau, Robert DesRosier, Randell Harris, and Heather Hudson)
- State panelists from Michigan (Laura Blastic), New Mexico (Jacqueline Miller), and Washington (Shelley Westall)

Carl Rebstock, who leads tribal government outreach for FirstNet, introduced the Tribal Working Group (TWG) and state panelists, including their position and background in tribal affairs. Mr. Rebstock then asked the group to share some of the challenges they have experienced in tribal engagement. Participants emphasized that understanding tribal communities' perceptions about FirstNet is key as is acknowledging that each tribal nation is different. Panel members also encouraged the group to be persistent in their outreach and to do as much as possible in person. Visiting reservations, taking ample time for visits, and working to understand the issues that are confronting the tribal nations were some of the other recommendations that came out of the group. Just over half of the 34 states with tribes participated in one or both of the two breakouts. The TWG intends to follow up with all of these SPOCs to solicit suggestions for what measures of engagement would be welcome as a means of identifying successful practices and areas where assistance is needed.

Panelist: Laura Blastic (Michigan)

Laura Blastic told the panel that when Michigan put together its outreach plan, it realized that the tribal section was thin. To remedy that, the state worked through the tribal liaison it its governor's office to get current and direct contacts for each tribe. They then drafted a thoughtfully worded letter from the SPOC, who is a cabinet-level official in Michigan, to each contact. Ms. Blastic emphasized the need to adjust communications efforts to each of the individual tribes rather than expecting the tribal nations to always adjust to the state program.

Panelist: Jacqueline Miller (New Mexico)
Jacqueline Miller also stressed the need to work to identify the right person within a tribe or tribal organization. Cold calls don't work, she emphasized. Ms. Miller also addressed the importance of reserving enough time to allow meetings to unfold at their own pace and getting to know the tribe's structure and governance expectations before hand, rather than relying on assumptions. The final important point is to ensure communication and information sharing are strong so the state and FirstNet are not offering different information.

Panelist: Shelley Westall (Washington)
Shelley Westall brought to light that the tribes are often top employers in rural areas and politically influential. They deserve respect for the relationships they have with the local communities and need to be recognized as partners. She stressed that Washington is working to establish a trusting relationship and ensure tribal nations know that they have an advocate in the state's FirstNet efforts, as well as at the level of the governor. Ms. Westall also reiterated the importance of in-person visits and reminded attendees that tribal lands often span states and require collaboration across state lines.

3.12 Closing Session

Presenters:

- Amanda Hilliard, FirstNet Outreach Director

After a recap on the breakout sessions by the session facilitators, Amanda Hilliard thanked the group for their participation and time. Ms. Hilliard provided a summary of the key action items, including distributing the presentation slides within a week and the meeting summary in a few weeks.

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Appendix A - Attendee List

Fall SPOC Meeting: October 7-8, 2015		
LAST	FIRST	STATE/AFFILIATION
Dawson	Cathy	Alabama
Murph	Charles	Alabama
Leveque	Matthew	Alaska
Rockwell	John	Alaska
Aab	Kirk	American Samoa
Prendergast	Carl	American Samoa
Martinez	Dina	Arizona
Gray	Trey	Arkansas
Owens	Tina	Arkansas
Rubow	Penny	Arkansas
Brunswig	Mike	Colorado
Coleman Madsen	Kim	Colorado
Leslie	Walt	Colorado
Mills	Edgar	Colorado
Shepherd	Brian	Colorado
Drozynski	Robert	Connecticut
O'Donnell	Bernard	Connecticut
Varney	Michael	Connecticut
Lehr	Ray	Delaware
Burbridge	Jack	District of Columbia
Ramlogan	Tim	District of Columbia
Gowen	Larry	Florida
Perry	Alex	Florida
Turner	Aislynn	Georgia

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Fall SPOC Meeting: October 7-8, 2015		
LAST	FIRST	STATE/AFFILIATION
Vincent	Marc	Georgia
Hokanson	Bradley	Guam
Pereda	Leigh	Guam
Cook	Dolores	Hawaii
Garcia	Victoria	Hawaii
Feeley	Robert	Idaho
Gates	David	Idaho
Pegram	Shoni	Idaho
Galvin	Joe	Illinois
Skinner	Douglas	Indiana
Vice	David	Indiana
Buffington	Andrew	Iowa
Lampe	Thomas	Iowa
Lumbard	Richard	Iowa
Bryant	Jason	Kansas
Stratmann	Christopher	Kansas
Wittmer	Phil	Kansas
Moore	Misty	Kentucky
Sanford	Barry	Kentucky
Edmonson	Michael	Louisiana
McLeary	Allison	Louisiana
Williams	Sammy	Louisiana
McCarron	David	Maine
Mueller	Daisy	Maine
Bailey	Scott	Massachusetts

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Fall SPOC Meeting: October 7-8, 2015		
LAST	FIRST	STATE/AFFILIATION
Saltzman	Michael	Massachusetts
Staffier	Steve	Massachusetts
Blastic	Laura	Michigan
Dickson	Lesia	Michigan
MacKenzie	Danna	Minnesota
Mines	Jackie	Minnesota
Bloomberg	Bob	Missouri
Courtney	Bryan	Missouri
Baldwin	Ron	Montana
Sullivan	Dan	Montana
Miller	Neil	Nebraska
Scofield	Jayne	Nebraska
Wilhelm	Robert	Nebraska
Cage	Caleb	Nevada
Morckel	Kenneth	Nevada
Sperling	Mitchell	Nevada
Stevens	John	New Hampshire
Boley	Kenneth	New Jersey
Scalera	Fred	New Jersey
Cadena	Nick	New Mexico
Garcia	Bernadette	New Mexico
Miller	Jacqueline	New Mexico
Bailey	Angela	North Carolina
Grasso	Red	North Carolina
Schell	Duane	North Dakota
Castle	Kelly	Ohio

Fall SPOC Meeting: October 7-8, 2015		
LAST	FIRST	STATE/AFFILIATION
Schmahl	Richard	Ohio
Vanest	Rebecca	Ohio
Cassingham	Nikki	Oklahoma
Gherezgiher	Ben	Oklahoma
Boyden	Michael	Oregon
Hart-Chambers	Lea Ann	Oregon
Soloos	David	Oregon
Judge	Joseph	Pennsylvania
Repsher	Adam	Pennsylvania
Williams	William	Pennsylvania
Figueroa	Joel	Puerto Rico
Garrafa	Sally	Puerto Rico
Freiman	Stuart	Rhode Island
Guthlein	Thomas	Rhode Island
Pierce	Jeffrey	South Dakota
Tooley	Matt	South Dakota
Waldner	Mike	South Dakota
Ehlert	Ehrin	Tennessee
French	Harrell	Tennessee
Singley	Amy	Tennessee
Waye	Stephanie	Tennessee
Early	Todd	Texas
Hoffman	John	Texas
Jurrens	Karla	Texas
Lin	Shing	Texas
Staples	Jared	Texas

Fall SPOC Meeting: October 7-8, 2015		
LAST	FIRST	STATE/AFFILIATION
Zelinsky	Martin	Texas
Coles	Gordon	Utah
Gauthier	Tess	Vermont
LaValley	Terry	Vermont
Figaro	Khanisa	Virgin Islands
Thiel	Adam	Virginia
Marusich	Michael	Washington
Osborn	Katrina	Washington
Schrier	Bill	Washington
Westall	Shelley	Washington
McCabe	Gay	West Virginia
McGue II	Patrick	West Virginia
Fortunato	Dennis	Wisconsin
Powers	Dennis	Wisconsin
Babbitt	Troy	Wyoming
Wassel	Joseph	Department of Defense
McEwen	Harlin	PSAC
Patrick	Paul	PSAC
Bird	Michael	Tribal Working Group
Broncheau	Richard	Tribal Working Group
DesRosier	Robert	Tribal Working Group
French	Harrell	Tribal Working Group
Godfrey	Gerad	Tribal Working Group

Fall SPOC Meeting: October 7-8, 2015		
LAST	FIRST	STATE/AFFILIATION
Harris	Randell	Tribal Working Group
Hudson	Heather	Tribal Working Group
Openshaw	Mark	Tribal Working Group
Cox	Neil	FirstNet Board
Douglas	James	FirstNet Board
Johnson	Jeff	FirstNet Board
McGinnis	Kevin	FirstNet Board
Stanek	Richard	FirstNet Board
Algiere	Christopher	FirstNet
Bashaw	Lynn	FirstNet
Behnam	Kameron	FirstNet
Bratcher	Jeff	FirstNet
Buchanan	David	FirstNet
Cook	David	FirstNet
Davie	John	FirstNet
Delaney	Andrew	FirstNet
Ederheimer	Joshua	FirstNet
Golaszewski	Mark	FirstNet
Green	Kevin	FirstNet
Harder	Doug	FirstNet
Hilliard	Amanda	FirstNet
Hobson	Brian	FirstNet
Kali	Keone	FirstNet
Kassa	Brian	FirstNet

Fall SPOC Meeting: October 7-8, 2015		
LAST	**FIRST**	**STATE/AFFILIATION**
Kennedy	Jeanette	FirstNet
Kennedy	TJ	FirstNet
Lee	Victoria	FirstNet
Leitch	Barry	FirstNet
Martinet	Joe	FirstNet
Parkinson	Edward	FirstNet
Pierce	Tim	FirstNet
Poth	Mike	FirstNet
Prochaska	Dean	FirstNet
Rebstock	Carl	FirstNet
Reed	Richard	FirstNet
Richardson	Kyle	FirstNet
Schwinghammer	Patrick	FirstNet
Shore	Justin	FirstNet
Shull	Thomas	FirstNet
Smith	Zachary	FirstNet
Stone	Lori	FirstNet
Vinson	Jamel	FirstNet
Wayne	Claudia	FirstNet
Westall	Murry	FirstNet
Williams	Brent	FirstNet
Zimmerman	Glenn	FirstNet
Zollo	Jeremy	FirstNet
Eghaneyan	Qumars	FirstNet Support

Fall SPOC Meeting: October 7-8, 2015		
LAST	**FIRST**	**STATE/AFFILIATION**
Ferraro	Larry	FirstNet Support
Fletcher	Kristen	FirstNet Support
Green	Keil	FirstNet Support
Posner	Jeffrey	FirstNet Support
Richardson	Tara	FirstNet Support
Ruth	Tim	SPAWAR Systems Center Pacific / FirstNet Support
Ugarte	Nicole	FirstNet Support
Younger	Karlin	FirstNet Support
Dame	Michael	NTIA
Dunn	Carolyn	NTIA
Miyamoto	Yuki	NTIA
Romanoff	Natalie	NTIA
Geurkink	Landon	NTIA OPSC
Gallaher	Clare	NTIA/OPSC
MacBride	Marsha	NTIA/OPSC
Oyekan	Akin	NTIA/OPSC
McElvaney	Tracy	PSCR
Orr	Dereck	PSCR