Staff Subcommittee on Telecommunications
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FirstNet – We Have a Winner!
What Does it Mean for States and Consumers?
Adam Geisler – is currently one of two FirstNet National Tribal Government Liaisons. He has served as a delegate to FirstNet’s Public Safety Advisory Committee (PSAC) Tribal Working Group, representing the International Association of Emergency Managers tribal caucus and Southern California Tribal Chairmen’s Association, respectively.

Adam is an enrolled member of the La Jolla Band of Luiseño Indians (California) and has served in a number of leadership roles with the tribe—including as elected tribal council secretary, vice chairman of the Inter-Tribal Long-Term Recovery Foundation, and is contributor and Vice President for “The Red Guide to Recovery.” Adam has been in his elected office for the past seven years and has led his tribe through three federally declared disasters. At FirstNet, Adam will be the principal point of contact for tribes in FirstNet/FEMA regions IX and X.
Patrick J. Mallon - serves as Assistant Director of Public Safety Communications in the California Governor’s Office of Emergency Services. Previously he was Executive Director at Los Angeles Regional Interoperable Communications Systems from 2011 to 2016 and Senior Program Manager at Carter Goble Lee Facility Management, LLC, from 2007 to 2011. He also served as the Project Coordinator of the Regional Crime Laboratory project, a joint use criminalistics facility serving the Los Angeles County Sheriff and City Police Departments from 2001 to 2007.

Mr. Mallon began his civil service career with the LA County Sheriff’s Department 50 years ago and achieved the rank of Commander before his retirement in 2003. He was also a Criminal Investigator in the U.S. Army Criminal Investigation Command from 1967 to 1969. He is a certified Project Management Professional (PMP) with the Project Management Institute and earned a Master of Public Administration degree from Pepperdine University.
Brian Shepherd - is currently the Chief Operating Officer for the Colorado Broadband Office within the State of Colorado Governor’s Office of Information Technology (OIT) where he is responsible for developing a statewide, comprehensive broadband strategy to ensure all Coloradan’s have access to broadband technology. Additionally, Mr. Shepherd is the Single Point of Contact (SPOC) for the FirstNet initiative working to develop Colorado’s plan for the Nationwide Public Safety Broadband Network.

Prior to joining OIT Mr. Shepherd spent eight years in public safety as the deputy director of the Adams County Communications Center (ADCOM911) where he managed one of the initial seven public safety LTE BTOP Pilot Projects. Prior to his public service Brian spent 10 years working in the software development sector developing web-based technologies for a variety of industries. Mr. Shepherd served on the FCC’s Technical Advisory Board for First Responder Interoperability and is a past chair of the Colorado 9-1-1 Task Force.

Mr. Shepherd has a Bachelors Degree in Business Administration with an emphasis in Information Systems from the University of Colorado, Boulder and a Masters in Public Administration from the University of Colorado, Denver.
FirstNet Overview, Solution, & Next Steps
National Association of Utility Commissioners
• Overview of FirstNet

• Solutions Overview

• Governor’s Decision

• Questions and Answers
Overview of First Responder Network Authority (FirstNet)
Innovative Public-Private Partnership

Creating an infrastructure dedicated to public safety

FirstNet

Customer experience

20MHz Spectrum

Program management

Public safety

$180B Infrastructure

Telecom Expertise

AT&T

Secured Network

Technology & Innovation

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What Is QPP, and Why Does Public Safety Need It?

• QPP – QoS – Priority - Preemption

• Quality of Service (QoS): establishes minimum/maximum service quality parameters

• Priority: Gives users preferred access to network resources

• Preemption: Terminates or relocates lower priority users to provide primary users with access
FirstNet Solution Overview

**Coverage**
- Reaches 97+% of US population
- 40,000 Wi-Fi hotspots
- Satellite and deployable coverage for 99% geographic reach

**In-Building Solutions**
- Access to more than 6,000 existing AT&T in-building assets including stadiums and transportation facilities

**Deployables**
- Hundreds of AT&T units for daily network maintenance
- 72 deployables for FirstNet customer requests

**Service Plans & Procurement**
- Customer-deployable asset options
- Competitive rate plans at or below existing commercial pricing
- Purchase through a variety of contract vehicles
FirstNet Solution Overview

**Devices & BYOD**
Any AT&T LTE device can be a FirstNet device
Wide choices, aggressive pricing
Use your personal device on FirstNet

**Basic & Future Services**
Includes all the voice, data and messaging features of commercial networks
Future roadmap for Mission Critical services

**Priority/Preemption**
Priority and preemption on Band 14 + AT&T commercial LTE bands
Multiple priority levels within agencies
Mutual aid priority management for incident response

**Cybersecurity**
Security Operations Center for FirstNet
Uses AT&T’s global cybersecurity assets
FirstNet Solution Overview

ICAM
Single Sign-On capability across all FirstNet applications plus agency applications

FirstNet App Store
Shows only security audited apps from trusted vendors
Can integrate with agency MDM/MAM

Local Control
One stop web tool for managing user rate plans, priority levels, PTT groups, ICAM authorizations and more

Public Safety Home Page
Unprecedented visibility into network status and more

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FirstNet Solution Overview

App Developer Program
Foster innovation and interoperability in public safety mobile apps
APIs for FirstNet specific features
Or bring your own apps

Solutions
First-party options for key services like PTT, mobile VPN, messaging, LBS and more

Training
Public safety solution specialists to educate agencies on how to maximize their use FirstNet services

Support
Dedicated 24 x 7 x 365 FirstNet mobility customer care desk based in the US

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State Planning Process for Governor Opt-In/Opt-Out Decision
Important Dates

June 19 State Plan Delivery

June 19-Aug 4
FirstNet and AT&T meet with States for individualized plan discussion

NLT Aug 4 States Submit Comments

Aug 4-Mid-Sept
FirstNet reviews all comments submitted and makes necessary refinements

NLT Mid-Sept Official State Plan Notice

Mid-Sept-Mid-Dec
Governor has up to 90 days to make decision regarding State Plan

NLT Mid-Dec State Decision
Q&A
Staff Subcommittee on Telecommunications
FirstNet – State Perspective
Patrick J. Mallon, Assistant Director
Public Safety Communications
July 16, 2017
The Role of Cal OES

• Governance
• State Plan Review
• California’s Priorities
Continued governance and stakeholder communications remain important throughout network deployment and operations.
CalFRN Board and Advisory Committees

The Role of Cal OES
## California’s Priorities

<table>
<thead>
<tr>
<th>No.</th>
<th>Priority Categories</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1a</td>
<td>Timeline of Deployment</td>
<td>Phased approach timeline</td>
</tr>
<tr>
<td>1b</td>
<td>Coverage &amp; Capacity</td>
<td>California’s proposed coverage map, and capacity for all areas</td>
</tr>
<tr>
<td>1c</td>
<td>Architecture</td>
<td>Sustain system performance that exceeds Tier 1 commercial provider performance. Infrastructure hardening</td>
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<tr>
<td>1d</td>
<td>Customer Service Quality</td>
<td>Customer service</td>
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<tr>
<td>2a</td>
<td>Mexico Border</td>
<td>Border interference</td>
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<tr>
<td>2b</td>
<td>Coastline</td>
<td>Coastal Commission restrictions, coverage along all of California coastline</td>
</tr>
<tr>
<td>3a</td>
<td>Rural</td>
<td>California’s proposed coverage map, and capacity of all areas</td>
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<tr>
<td>3b</td>
<td>Tribal</td>
<td>California has 109 Federally recognized tribes</td>
</tr>
<tr>
<td>4</td>
<td>Early Builder Integration</td>
<td>Early Builder integration</td>
</tr>
<tr>
<td>5</td>
<td>Devices</td>
<td>Competitively priced as compared to commercial vendors</td>
</tr>
<tr>
<td>6</td>
<td>Cost</td>
<td>Pricing schedules for services</td>
</tr>
<tr>
<td>7</td>
<td>Prioritization and Quality of Service (QPP)</td>
<td>Local control for responders, QPP architecture aligns with responders needs</td>
</tr>
<tr>
<td>8</td>
<td>Cyber Security</td>
<td>Equivalent to industry leading commercial carriers</td>
</tr>
<tr>
<td>9</td>
<td>Service Availability</td>
<td>Network service available 24 hours a day, 7 days a week, 365 days a year. High network reliability, resiliency and redundancy</td>
</tr>
<tr>
<td>10</td>
<td>Applications Integration</td>
<td>Support for applications that are sensitive in nature and require physical or logical separation</td>
</tr>
<tr>
<td>11</td>
<td>In-Building</td>
<td>In-building coverage</td>
</tr>
<tr>
<td>12</td>
<td>Training</td>
<td>Ongoing new device and service training</td>
</tr>
<tr>
<td>13</td>
<td>Testing</td>
<td>User testing especially local control features</td>
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<tr>
<td>14</td>
<td>Deployable(s)</td>
<td>Deployable staged strategically; use of existing towers and backhaul</td>
</tr>
<tr>
<td>15</td>
<td>Financial Stability</td>
<td>Self-sustaining business model, marketing</td>
</tr>
<tr>
<td>16</td>
<td>PSAP Data &amp; CAD Interface</td>
<td>9-1-1 and computer aided dispatch (CAD) information delivered to field</td>
</tr>
<tr>
<td>17</td>
<td>CLETS &amp; Critical Data Access</td>
<td>Access to California Law Enforcement Telecommunication System (CLETS) and other critical data</td>
</tr>
</tbody>
</table>
California Coverage Priorities

- Rural
- Coverage and Capacity
- Coastaline
- Mexico Border
- Other?
- In-Building
- Tribal
- Timeline of Deployment

California’s Priorities
California Network Performance Priorities

California’s Priorities
California Cost and Services Priorities

- Cost
- Services
- Financial Stability
- Applications Integration
- PSAP Data & CAD Interface
- Training
- CLETS & Critical Data Access
- Other?

California’s Priorities
Key Concerns for California

• Coverage, Network Performance, and Cost and Services
  • Current AT&T User Cost Information is Illusory

• Network Resiliency – Public Safety Grade – TIA 222-Rev. G

• FirstNet Defined Priority Levels – Primary Users, Extended Primary Users, and Volunteer Users

• Local Control/Device Management

• Device and Applications Ecosystems

• CLETS Approved (California Law Enforcement Terminal System)

• PSAP Ready – Able to Connect to Existing Call Answering Points and Dispatch Consoles
State Plan Review Meeting Schedule

Spread the word! Invite your partners and peers to join us at a FirstNet outreach future event:

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Location</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Monday, June 26</td>
<td>Fresno</td>
<td>1:00-4:00</td>
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<tr>
<td>2</td>
<td>Wednesday, June 28</td>
<td>Sacramento – Cal OES</td>
<td>1:00-4:00</td>
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<tr>
<td>3</td>
<td>Thursday, June 29</td>
<td>Dublin</td>
<td>1:30-4:30</td>
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<tr>
<td>4</td>
<td>Thursday, July 6</td>
<td>Palo Alto</td>
<td>9:00-12:00</td>
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<tr>
<td>5</td>
<td>Friday, July 7</td>
<td>Van Nuys</td>
<td>9:00-12:00</td>
</tr>
<tr>
<td>6</td>
<td>Monday, July 10</td>
<td>Los Alamitos</td>
<td>9:00-12:00</td>
</tr>
<tr>
<td>7</td>
<td>Tuesday, July 11</td>
<td>La Jolla</td>
<td>9:00-12:00</td>
</tr>
<tr>
<td>8</td>
<td>Wednesday, July 12</td>
<td>Ontario</td>
<td>9:00-12:00</td>
</tr>
<tr>
<td>9</td>
<td>Monday, July 17</td>
<td>Atwater</td>
<td>1:30-3:00</td>
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<tr>
<td>10</td>
<td>Thursday, July 20</td>
<td>Redding</td>
<td>10:30-12:30</td>
</tr>
<tr>
<td>11</td>
<td>Friday, July 21</td>
<td>San Luis Obispo</td>
<td>1:00-4:00</td>
</tr>
<tr>
<td>12</td>
<td>Thursday, July 27</td>
<td>Sacramento – Tribal Consultation</td>
<td>TBD</td>
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</tbody>
</table>
State Plan Content for Governor’s Decision

FirstNet Overview

Network Architecture

Consultation & Outreach

Coverage

Governor’s Decision

Access the plan at: www.firstnet.com
Next Steps for California

• State Plan will be officially delivered to Governor in Mid-September

• Cal OES, CalFRN, and the State Plan review team will evaluate the updated plan to ensure California’s priorities are addressed

• Evaluation of updated State Plan and the Opt-Out alternative will be presented to the Governor

• Governor’s decision to Opt-In / Opt-Out will be made by Mid-December
What Can I Do?

You can make a difference!

• Go to www.firstnet.com and review the FirstNet service offering

• Provide your comments on behalf of you and your agency now. Or, go online at:
  www.firstnetincalifornia.org

For more information:

www.caloes.ca.gov/CalFRN

Site contains slides and all outreach information
QUESTIONS
Staff Subcommittee on Telecommunications