



Initial Consultation Meeting with South Dakota

Working together to bring broadband to Public Safety Entities

April 1, 2015
Pierre, South Dakota



Welcome & Introductions



Initial Consultation Goals



Strengthen Our Relationship



Provide FirstNet Updates



Learn about South Dakota's Unique Needs



Discuss Next Steps

← Meeting Goals →

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FIRSTNET STRATEGY AND CONSULTATION

Need Inputs to Get Answers

Plan Options

Service Plan

Training

Data Usage

Users

FirstNet Consultation

Deployables

Hardening

Coverage Objectives

Security

Applications

Core Network

Devices

Prioritization

\$7B + **Self-Sustaining Network** + **PS Features**

Deployment Schedule

Core Design

Cost Estimates

Baseline Coverage

Excess Capacity Valuation

FirstNet Acquisition

Hardening Costs

Available Devices

Adoption Estimates

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FirstNet Spectrum – A Valuable Resource

- FirstNet is the license holder for Public Safety’s Broadband allocation – **Band Class (BC) 14**
- Commercial Carriers also operate in several bands outside of 700 MHz

BC 17		BC 29		BC 12		BC 13		BC 14		LMR		BC 13		BC 14		LMR	
6 MHz	12 MHz	12 MHz	6 MHz	12 MHz	11 MHz	10 MHz	6 MHz	11 MHz	10 MHz	6 MHz	6 MHz	11 MHz	10 MHz	6 MHz	6 MHz	6 MHz	6 MHz
UL	UPLINK	DOWNLINK	DL	DOWNLINK	DOWNLINK	DOWNLINK	DOWNLINK	DOWNLINK	UPLINK								

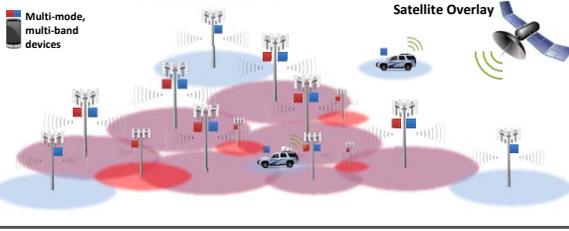
1 MHz Guard Bands

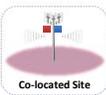
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Conceptual Design Approach

Multi-mode, multi-band devices 

Satellite Overlay 





Co-located Site



FirstNet RAN Only



Existing RAN Only

■ = FirstNet RAN (Band 14)

■ = Existing RAN (Band ??)

 = Satellite Overlay

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GETTING INPUTS THROUGH CONSULTATION



Stakeholder Inputs



State Consultation

1. Construction of a Core and RAN build out
2. Placement of towers
3. Coverage areas of the network
4. Adequacy of hardening, security, reliability, and resiliency
5. Assignment of priority to local users
6. Assignment of priority and selection of entities seeking access to or use of the network
7. Training needs of local users

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Review and Inform 

Review and Inform

- Stakeholder Needs
- Technology and Economic Topics
- Legal Interpretations
- Network Policies and Procedures



Topics

- Priority and Preemption
- Security
- Reliability and Resiliency
- Governance
- Hardening
- Customer Service
- Contracts
- Training and Education

2015 SPOC Meeting: April 14 – 15

- Network Policies and Procedures
- Service Level Agreements
- Needs and Design Criteria
- Program Guidance
- Acquisition

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Data Collection 

Coverage Objectives

- Coverage
- Phased Build Out



Users and Operations

- Public Safety Entity Info
- Devices
- Operational Areas



Capacity

- Applications
- Data Usage



Current Service

- Current Service
- Procurement Vehicles
- Service Plans



South Dakota

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STATE PLAN – BRINGING EVERYTHING TOGETHER



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The State Plan 



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Responsibilities for Network Components 

Component	Responsibility
<p>CORE</p> 	<input checked="" type="checkbox"/> FirstNet
<p>RAN DEPLOYMENT</p> 	<input type="checkbox"/> FirstNet <input type="checkbox"/> State
<p>DEVICES / SERVICE</p> 	<input type="checkbox"/> Agency Choice

← Backhaul / Transport →

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FirstNet

FirstNet and South Dakota are working together to bring wireless broadband to Public Safety



