



Tennessee Public Safety Broadband Network

FirstNet RFP D15PS00295

Review & Analysis

**Tennessee Department of Safety and Homeland Security
Office of Research, Planning and Development
1150 Foster Avenue
Davis Quad #2
Nashville, TN 37243**





BGA Review

- **Consistency with FirstNet's Stated Strategy**
- **Potential Operational or Financial Impacts to the State of Tennessee.**
- **Roles and Responsibilities of State and Local Personnel During Evaluation, Award, and Post Award Periods.**
- **Timelines and Key Milestone Dates contained Within the RFP.**





RFP Highlights

- **511 Pages, 13 Sections, 26 Attachments**
- **Objective Based RFP – 16 Categories**
- **Indefinite Delivery/Indefinite Quantity (IDIQ)**
- **\$150M - \$100B**
- **6 Phases of Implementation**
 - Initial Operating Capability (IOC) 1 thru 5
 - Final Operating Capability (FOC)
- **25 Year Contract**



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

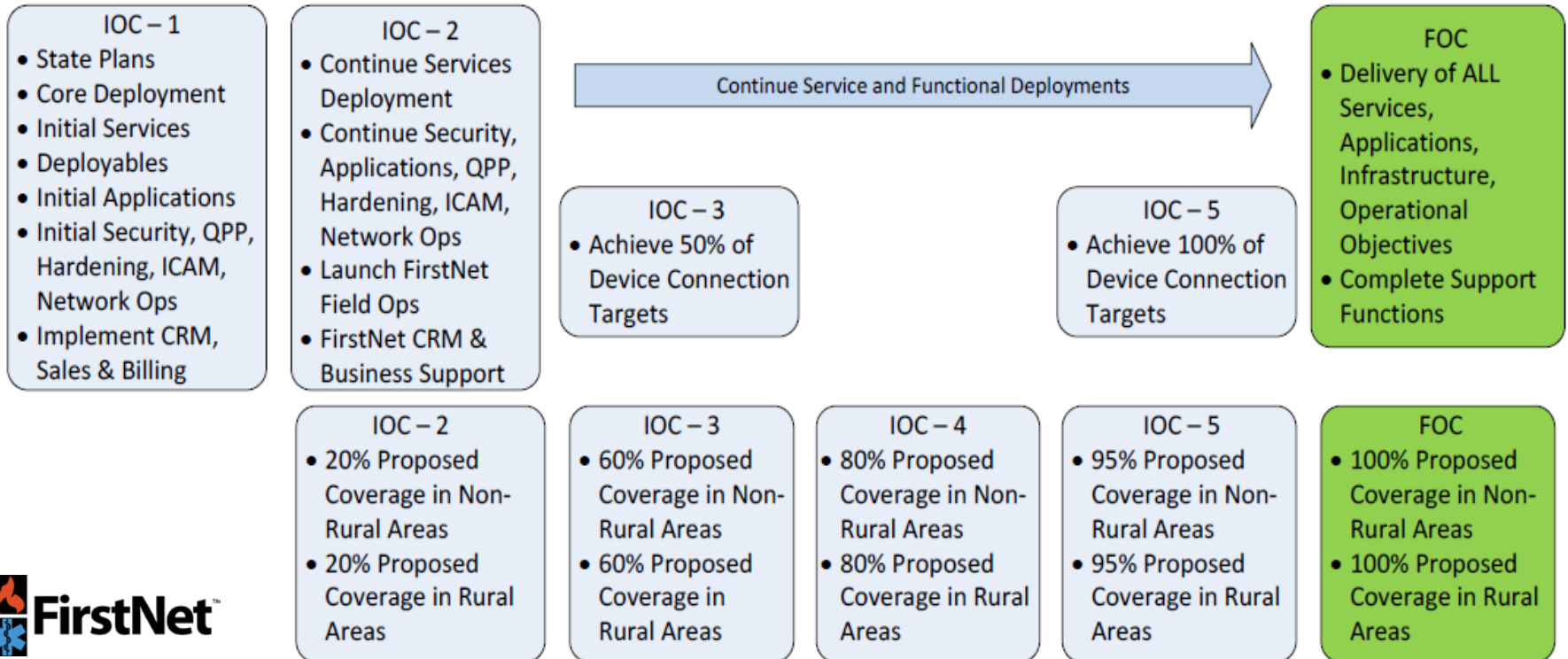
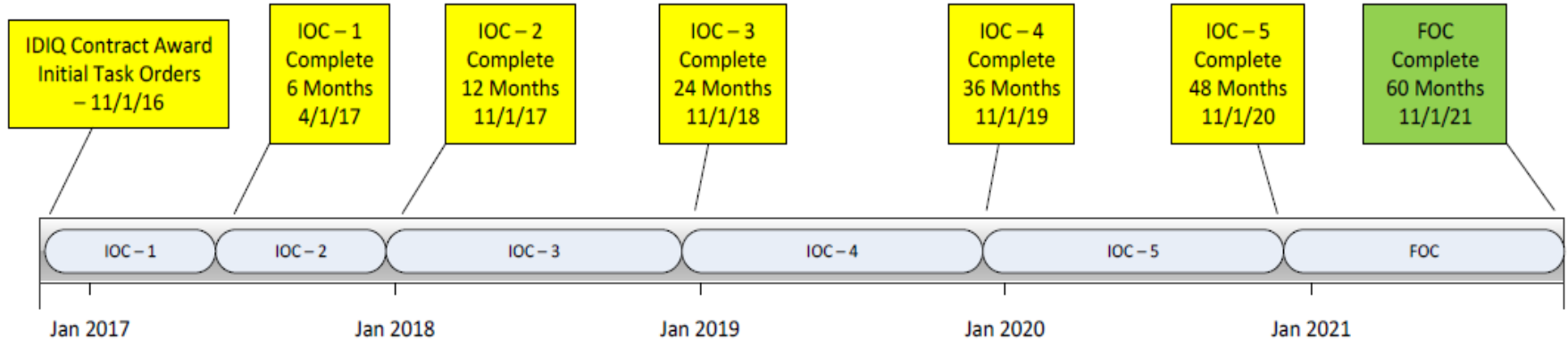
Important RFP Dates



- ✓ January 13: RFP Released
- ✓ January 15: RFP Webinar held, 645 recorded attendees
- ✓ February 12: Questions due
 - March 10: Pre-Proposal Conference
 - March 31: Capabilities statements due
 - May 13: Proposals due
 - Fourth quarter 2016: Anticipated award



FirstNet IOC/FOC Timeline



FirstNet IOC/FOC Timeline

	IOC-1 Award + 6 Months 11/1/15 – 4/1/16	IOC-2 Award + 12 Months By 11/1/17	IOC-3 Award + 24 Months By 11/1/18	IOC-4 Award + 36 Months By 11/1/19	IOC-5 Award + 48 Months By 11/1/20	FOC Award + 60 Months By 11/1/21
3GPP	<ul style="list-style-type: none"> Release 12 D2D ProSe 		<ul style="list-style-type: none"> Release 13 Group Communication 		<ul style="list-style-type: none"> Release 14 5G 	
Devices			<ul style="list-style-type: none"> Achieve 50% of Device Connection Target 		<ul style="list-style-type: none"> Achieve 100% of Device Connection Target 	
Coverage	<ul style="list-style-type: none"> Nationwide Coverage Available – BC14/Non BC14 	<ul style="list-style-type: none"> 20% BC14 Proposed Coverage in Rural/ Non-Rural Areas 	<ul style="list-style-type: none"> 60% BC14 Proposed Coverage in Rural/Non-Rural Areas 	<ul style="list-style-type: none"> 80% BC14 Proposed Coverage in Rural/ Non-Rural Areas 	<ul style="list-style-type: none"> 95% BC14 Proposed Coverage in Rural/Non-Rural Areas 	<ul style="list-style-type: none"> 100% BC14 Proposed Coverage in Rural/Non-Rural Areas
Products	<ul style="list-style-type: none"> State Plans Complete BC14 Deployables Range Extension 	<ul style="list-style-type: none"> Static QPP based on credentials 	<ul style="list-style-type: none"> Dynamic QPP Local Control MC-PTT 	<ul style="list-style-type: none"> Location Based Services MC-Video 	<ul style="list-style-type: none"> Group Communications MC Video & Data 	<ul style="list-style-type: none"> Delivery of ALL Services, Applications, Infrastructure, Operational Objectives
Applications	<ul style="list-style-type: none"> Initial PS Apps Hosted Cloud Services Developer Certification 	<ul style="list-style-type: none"> PSE Home Page Application APIs 	<ul style="list-style-type: none"> Integration of Local Control, Dynamic QPP, and Application APIs 			
Support	<ul style="list-style-type: none"> Sales & Billing 	<ul style="list-style-type: none"> Customer Relationship Management (CRM) 				<ul style="list-style-type: none"> Support Functions Complete



RFP Deliverables

- Deployment Plan (“State Plan”) for States and Territories
- Coverage, Population, and Capacity Maps
- Deployment Schedule and Status
- Network Technology Roadmap
- Integration of State-Deployed RANs
- Deployable Units and Temporary Coverage Solutions
- Applications Ecosystem
- Device Ecosystem
- Business Management including cost variance, revenue variance, schedule variance, user forecasting (adoption)



Key Performance Indicators (KPIs)



- **Accessibility** – Addresses the probability for an end user to be provided with an LTE radio bearer upon request. Includes the percentage of successful attempts per overall number of attempts.
- **Retainability** – Addresses how often an end user abnormally loses an LTE radio bearer during the time that the radio bearer is used. Includes the percentage of abnormal session releases per session time units.
- **Integrity** – Addresses how the LTE network affects the service quality provided to an end user, or the delay experienced by an end user. Measurements include throughput (Internet Protocol [IP] data volume per time) and latency.
- **Availability** – Addresses when an LTE cell is available for service. Measurements include the percentage of time that the cell is considered available.
- **Mobility** – Addresses how well the LTE mobility functions work. Measurements include the handover success rates.

Measuring Success



- Monthly Status Reports
- Continual Service Improvement Plan
- Training Performance Report
- Service Availability Report
- Capacity Management Report
- After Action Reports

Blue – Excellent/ Outstanding

Green – Good

Yellow – Marginal

Red – Unsatisfactory

Annual Disincentive Payments for the State of Tennessee Range From \$2,378,249 in FOC Year 1 to 3,400,689 in FOC Year 20.

Technical Workgroup Items



- **RMTR** – Recommended Minimum Technical Requirements Document (**Attachment J-3 to the RFP**)
- **System and Standards Views** – Provides views of the interfaces between the Core network and other external networks (**Attachment J-4**)
- **Cybersecurity** – FirstNet is required to “ensure the safety, security, resiliency of the network, and to protect against cyberattack (**Attachment J-10**)
- **State Plan Template** (**Attachment J-19**)





Discussion/Questions

