FirstNet: Our Nation’s Public Safety Network

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2001
9/11 attacks
Radio communication challenges affect first responders

2004
9/11 Commission
• Recommends national radio spectrum for public safety purposes
• Public safety unites to advocate for nationwide broadband network

2012
The First Responder Network Authority
Independent agency to deploy Nationwide Public Safety Broadband Network

2012-16
Outreach and Consultation
• Governors identify FirstNet single points of contact
• Consultation in all 56 states/territories
• FirstNet works with states to collect and validate users and coverage data

2016-17
Partnership and State Plans
• Network RFP released
• Award to AT&T
• Delivery of 56 state/territory plans
• 56 Governors Opt-In decisions

2018-beyond
Advancing the FirstNet Experience
• Engage and collaborate with public safety and industry
• Develop and promote Public Safety Communications roadmap
• Invest in the network
First Responder Network Authority

- Partner oversight and support
- Public safety advocate
- Technical expertise
- Innovation strategy and investment

AT&T

- Nationwide core
- RAN build-out
- Adoption and customer care (24x7x365)
- Security operations center
- Mission-critical services
- App and device ecosystems
The FirstNet Authority is in the position to be a catalyst across its stakeholder groups to effect positive change for the public safety community.

- The only network dedicated to public safety
- $18 billion reinvestment capability
- A committed organization with deep expertise
**ENGAGE** public safety entities and associations, PSAC, industry, and government to understand their trends, drivers, and priorities

**COLLABORATE** with public safety to realize the operational benefit of the FirstNet Experience

**DEVELOP** and promote public safety broadband communications roadmaps that reflect the voice of public safety

**INVEST** in the network to further a differentiated FirstNet Experience
The Roadmap expresses how the FirstNet Authority will work to advance the FirstNet network over a multiyear horizon.

- Provides a **technology framework** to understand all of the components and capabilities of the FirstNet Experience.
- Reflects **public safety’s feedback** and needs based on a multitude of Roadmap engagements with the public safety community.
- Incorporates **analysis** of industry trends and drivers as well as AT&T’s roadmap for the Network.
- Identifies the **priorities that will guide investments** and other opportunities based on FirstNet Authority analysis.
# First Responder Network Authority Roadmap

## Domains

### Voice Communications
- Mission Critical Push-to-talk (MCPTT)
- PTT Interconnection

### User Experience
- Priority Services
- Applications
- Devices
- Accessories

### Situational Awareness
- Location Services
- Sensors
- Wearables
- Cameras/Video

- Mapping/Geographic Information System (GIS)
- Data Analytics/Artificial Intelligence

### Secure Information Exchange
- Data Access
- Data Sharing

- Cybersecurity
- Identity, Credential and Access Management (ICAM)/Single Sign-On

### Coverage & Capacity
- Macro Coverage
- Capacity
- In-building Solutions
- Temporary/On-Demand Coverage
- Range Extension
- Device-to-Device
- Air-to-Ground
- Maritime Operations
- Availability/Reliability/Resiliency/Hardening

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### Core
- EPC
- IMS Core
- Services Platforms
- App Servers
- Service Enablers

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FirstNet in Review: Achievements, Milestones & Users

- Launched **FirstNet Core**
- 75 **FirstNet-dedicated deployable assets** nationwide
- Expedited buildout of state **Radio Access Networks/Band 14**
- **Dedicated** Security Operations Center (SOC) for FirstNet subscribers
- Launched **Applications** and **Devices Ecosystem** for public safety

7,250 public safety agencies with 600,000+ connections
Service and QOS Priority Subscriptions
Charging Control
Basic Network Services and Mission Critical Services
- **Quality of Service (QoS):** Minimum/maximum service quality parameters
- **Priority:** Gives preferred access to network resources
- **True Preemption:** Terminates/relocates non-primary/commercial users so high-priority users have access