

nationalgrid

FIRSTNET OVERVIEW



[> INTRODUCTION](#) [> SOLUTIONS](#) [> EXTENDED PRIMARY](#) [> CHECKLIST](#) [> DOWNLOADS](#)

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A BRIEF HISTORY OF FIRSTNET



- 2004** The 9/11 Commission identifies the need for a dedicated network for first responders
- 2010** FCC recommends the creation of a nationwide interoperable Public Safety Network (NPSBN)
- 2012** Middle Class Tax Relief Act establishes FirstNet
- 2015** FirstNet drafts its first official RFP
- 2017** FirstNet awards AT&T the contract to build FirstNet 12/2022
Is the end of the 5 year build out date.

ONE COMMUNITY TOGETHER

PRIMARY USERS

- Fire
- Law Enforcement
- EMS
- Emergency Management
- PSAP / 911 Center

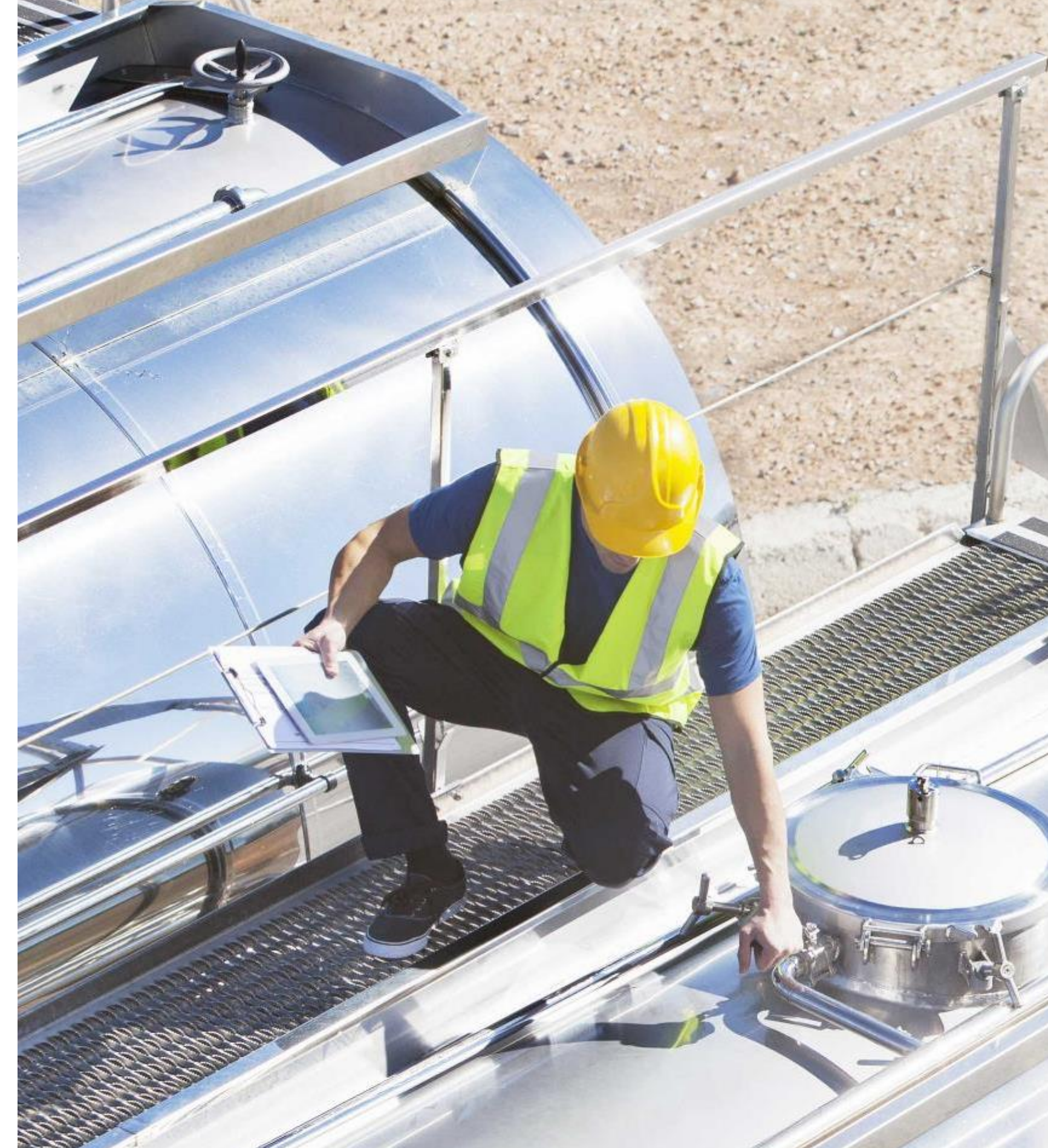
EXTENDED PRIMARY USERS

- Healthcare
- **Utilities**
- Transportation
- Support Services

FIRST PRIORITY™

The only network that offers First Priority™ - a 24/7/365 priority and preemption solution for voice, text and data

- **First Priority™** is always on and will provide primary users with an evolving set of QoS, priority and preemption that will exceed anything previously available to first responders
- FirstNet users are **exempt from throttling** in the country
- **Extended primary** users can be uplifted to First Priority™ status on the FirstNet core
- Top-level **“incident priority”** supersedes all other users on a temporary basis
- Primary users have the ability to pre-empt all other users (except 911 calls)



FIRSTNET DEVICES

Smartphone



- Apple iPhone XR
- Apple iPhone XS
- Apple iPhone XS Max
- LG K30
- LG Stylo 4
- LG V35 ThinQ
- LG V40
- Moto G6 Play
- Samsung Galaxy A6
- Samsung Galaxy Express Prime 3
- Samsung Galaxy J3
- Samsung Galaxy Note 9
- Samsung Galaxy S9/S9+

Rugged



- Motorola LEX L11
- Sonim XP5S
- Sonim XP8

Tablet



- Apple iPad Pro 11
- Apple iPad Pro 12.9
- Samsung Galaxy Tab A
- Samsung Galaxy Tab S4

Laptop



- Dell Latitude 14 Rugged 5420
- Dell Latitude 14 Rugged 5424
- Dell Latitude 14 Rugged 7424

Trunk Modem



- Cradlepoint AER2200-1200M
- Cradlepoint IBR1700-1200M
- Cradlepoint IBR900-1200M
- Cradlepoint IBR900LP6
- Cradlepoint MC400-1200M
- Cradlepoint MC400-600M
- Cradlepoint MC400-600M-C
- Cradlepoint MC400LP6
- Sierra Wireless MG90 LTE-A Pro
- Sierra Wireless MP70 LTE-A Pro

Data-Only



- Netgear Unite Express 2 MiFi
- Netgear Nighthawk Router



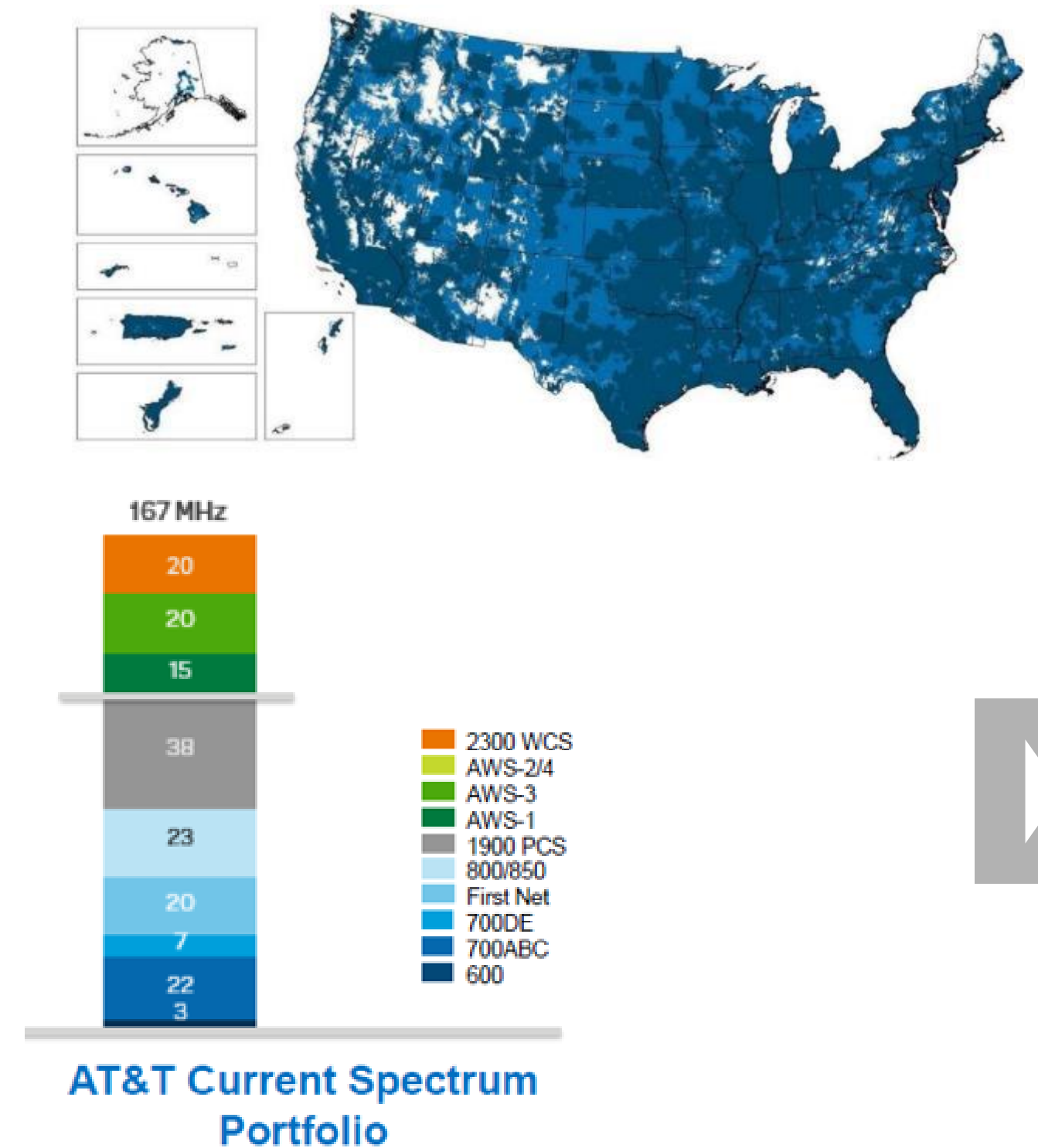
FirstNet Ready™ devices support the FirstNet SIM, First Priority™ and Band 14 out-of-the-box

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NETWORK STRATEGY

Aggressive RAN build

- AT&T Crowned best US network in largest Ever Mobile Performance Evaluation. <http://www.gwsolutions.com/bestnetwork-usa/>
- Priority and Preemption is available on all AT&T LTE Bands
- New Core dedicated to FirstNet
- New Security Ops Center dedicated to FirstNet
- Deploy coverage in rural areas to provide consistent customer experience
- Ability to request Deployables on demand for coverage extension and coverage replacement
- Access to 40,000+ Wi-Fi Hotspots and 6,000+ DAS
- **Band 14 addition to network for expanded coverage & capacity**



SECURITY OPERATIONS CENTER

The FirstNet platform maintains safety, security, and resiliency through its Security Operations Center (SOC).

On a continuous 24 hour basis, seven days a week and 52 weeks a year.

- Proactive operational and situational awareness of the FirstNet Evolved Packet Core
- Detection and management of security events
- Protection against threats and exploitable vulnerabilities
- Incident response capability
- Works closely with public safety entities and federal agencies for situational awareness
- Utilizes historic records to monitor for patterns using complex data mining technology



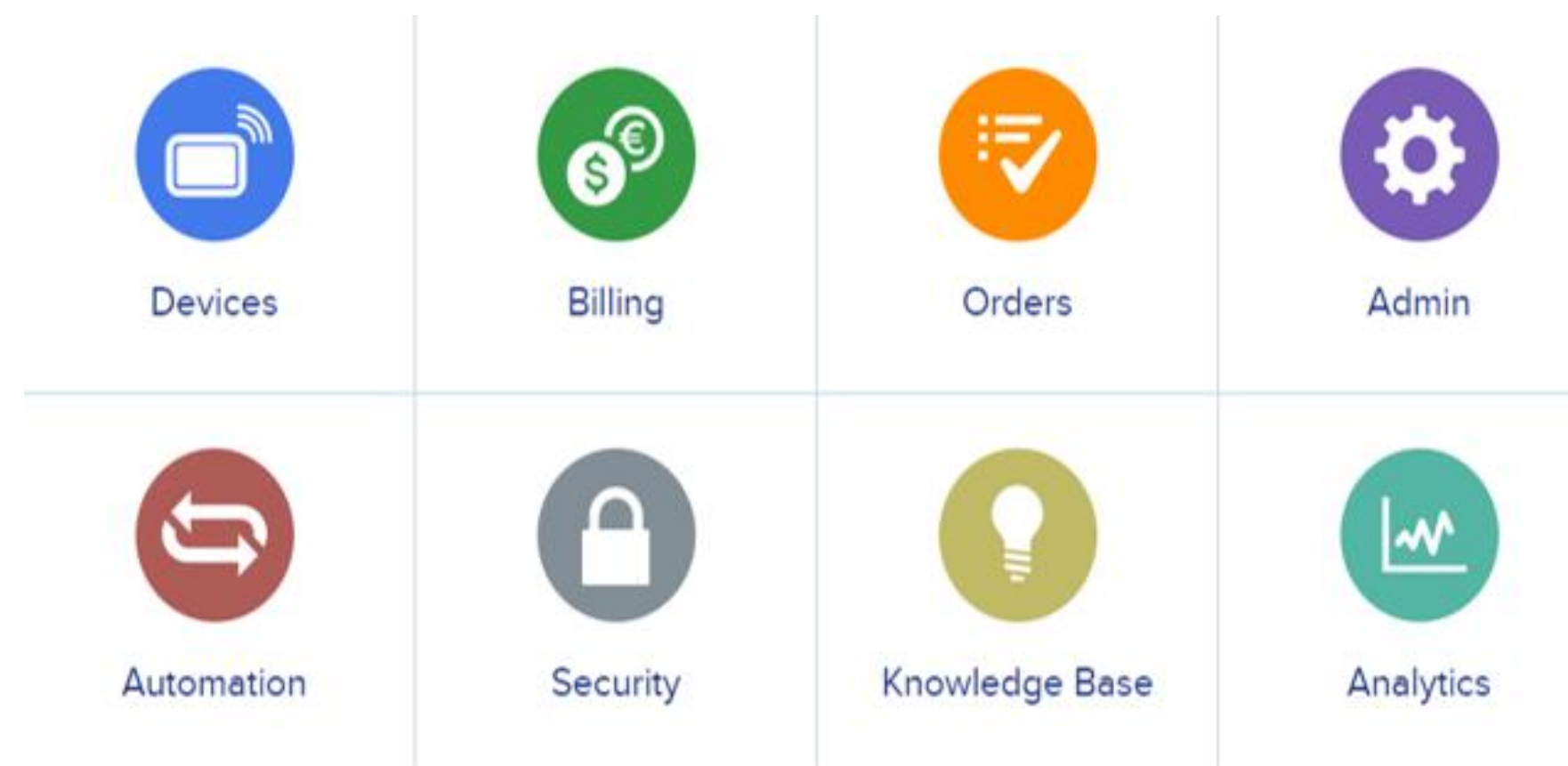
CONTROL CENTER FOR IOT

Control Center for FirstNet connects Internet of Things (IoT) Solutions with the FirstNet core network.

A rich API library that enables easy integration with your systems using standards-based APIs

- **Provisioning:** so you can quickly configure to support unique incidents
- **Real-time visibility:** so you can see all devices at a glance and respond immediately to changing network/usage conditions
- **Real-time Diagnostics:** to identify and respond to unusual device behavior before it becomes a problem

Control Center Home Page



FIRSTNET APPROVED USE CASES

- **Mobile Data Terminals** – In vehicle modems and data devices
- **Reclosers / Fusesavers** – Critical infrastructure management
- **Field Communication Devices** – Voice and data handsets

Other FirstNet IOT Use Case Examples:

- Workforce Management – Data, Voice & Mobile
- Wide Area Situational Awareness
- SCADA - Traditional and IEC 61850
- Distribution System Teleprotection
- Distribution Line Switching
- Synchrophasors Control
- Dynamic Line Rating
- Volt VAR Control
- Advanced Metering Systems (AMS)



FIRSTNET DEPLOYABLES

The FirstNet Satellite Deployables (SatCOLTs) assets are ready.

FirstNet SatCOLT assets support various scenarios:

- Emergency incident requests
- Planned events

Design enhancements being developed

- The 72 FirstNet SatCOLTs will be Band 14 enabled
- Provide voice (including Voice over IP, VoLTE), data, location, messaging, First Priority™ (QPP)
- Capability of up to 25Mbps downlink and 8 Mbps uplink



WHERE ARE WE TODAY

Changing the way public safety communicates

- Over 1.7 Million subscribers (as of Nov 2020)
- Over 9000 Agencies
- Available on most nationwide procurement vehicles
 - Aggressive Subscribe Paid Offer is available today
 - Includes aggressive equipment offer
 - Migration Offer
 - Includes national priority & preemption

