

2019 Illinois Public Safety Communications Planning to use the Public Safety Broadband Network

This presentation was prepared by the Illinois SLIGP using funds under award from the National Telecommunications and Information Administration (NTIA), U.S. Department of Commerce (DOC). The statements, findings, conclusions, and recommendations are those of the author(s) and do not necessarily reflect the views of the NTIA, DOC, or FirstNet.

Bill Springer Lori Bell
Illinois Public Safety Communications Team

July 2019

What is FirstNet

- Dedicated nationwide LTE Broadband network for public safety – Focus on cellular-type voice, data, & video
- No requirement for you to use FirstNet
- LTE is **NOT** a replacement for LMR walkie-talkies



What is FirstNet

- Follows 3GPP LTE Standards
- Priority and Preemption
- How would we use it?



Fleet Management



Remote View of Aerial Imagery



Mobile/Portable Traffic Monitoring

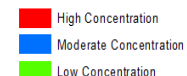
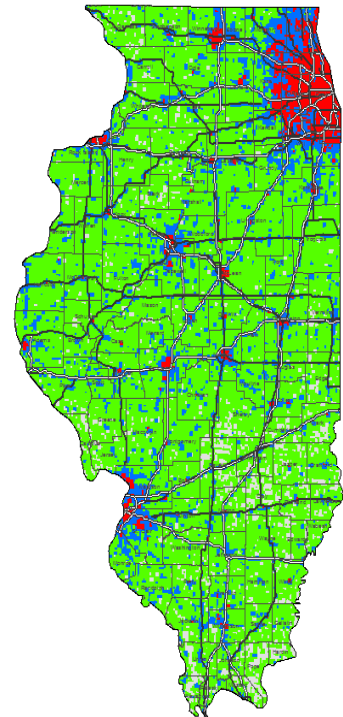


Cost

- Pricing appears competitive.
- Contract and Plans
- State Contracts for Agencies
- Subscriber-Paid
- No Throttling
 - But, Caps and Plan Changes

Coverage

- Carriers measure coverage differently on their maps.
- Public Safety is used to Guaranteed Coverage Maps.
- “In-Building Coverage”
- Key: You Can Test before you commit
 - Run a “Speed Test” application



Bandwidth

- New Technology – 5G on the way
- Fringe coverage area – minimum speeds
- Areas throughout IL will have better throughput
 - Generally, the closer to a tower, the faster the speeds.
- Key: You Can Test before you commit

Deployable Assets

- Deployables
 - Deployable systems are used to increase capacity and coverage
 - FirstNet / AT&T will have deployable assets available for use
 - Illinois has a number of Deployables with Satellite backhaul under our control

QPP

- Quality of Service, Priority, and Pre-emption
- Primary Users
 - Police, Fire, EMS, EMA, 911
- Extended Primary Users
 - Transportation, Public Works, Public Health, etc.
- Network Busy or Overloaded?
 - Priority gets you the next available opening
 - Pre-Emption bumps the low-priority users

Local Control

- Local Control
 - We believes the key to Control is Minimal User intervention
- “Uplift”
- LTE Networks “Self-Optimize”
 - Improper intervention by one agency can negatively affect neighboring agencies
- NIMS & ICS Communications Unit
 - Expertise in technology at the Incident

PTT

- LTE PTT is not considered Mission-Critical, i.e., it is not Public Safety grade
 - Still to be proven in a true Public Safety role
- PTT on day one may be for some users
 - Non-Frontline, Commanders, non-life-safety, etc.
- LMR is Here to Stay
 - Plan to stay on LMR for a decade (or longer!)
 - Look for Hybrid Networks and Radios

Applications Management

- FirstNet Application Store
- FirstNet will provide a place for applications developers to concentrate on the Public Safety market
- Application Developers to be vetted
- Applications to be tested for security flaws, bandwidth inefficiencies, etc.

Subscriber Paid

- It is possible for Personally-Owned Devices to be used on the FirstNet network.
- Non Public Safety users will NOT be able to acquire FirstNet service.
- Users may lose some control over their Personally-Owned Devices when on FirstNet
- Security is a huge concern

Decisions

- Decision
 - Do what's best for your Agency
 - Cost
 - Coverage
 - Demo Devices
 - Features

For More Information:

- www.firstnet.gov
 - Nationwide Information

For AGENCY Information:

Cindy Emmett | CSS II Telecom

Department of Innovation & Technology

Office: 217-782-9495

cindy.emmett@illinois.gov |

www.DoIT.illinois.gov

Questions? Please Contact:
The Illinois Public Safety
Communications Office:

217-531-0499

ljbell@ileas.org

- Bill Springer
 - IL FirstNet Project
- Bob Evans
 - Program Admin / Grant Compliance
- Lori Bell
 - IL FirstNet Grant & Logistics