

5G and FirstNet

The FirstNet Authority is investing \$6.3 billion to advance and enhance FirstNet, the nationwide public safety broadband network. This strategic investment will deliver full 5G capabilities on FirstNet, expanded mission-critical services, and enhanced coverage. With this evolution, public safety stays at the forefront of innovative, lifesaving technologies.

This investment advances 5G on FirstNet by:

- Providing public safety on FirstNet with always-on priority and preemption across all AT&T 5G commercial spectrum bands.
- Creating a standalone 5G core to enhance current 5G functionality with specific public safety features on FirstNet and support the transition of public safety's Band 14 spectrum from LTE to 5G.
- Upgrading public safety's dedicated fleet of deployable network assets with 5G connectivity to improve operational safety, security, and resiliency.
- Preparing the network to evolve beyond 5G, while remaining focused on public safety's unique needs and emerging requirements.

The transition to a full 5G network will enable FirstNet to keep pace with current evolutions in technology and standards-based mission critical advancements. The planned 5G network upgrades will generate faster speeds, increase capacity, enhance quality of service for FirstNet users, reduce latency, and drive innovations in 5G mission critical services. Throughout this multi-year transition to a full 5G network, the existing FirstNet 4G LTE network will remain fully operational and maintain the high level of service that first responders have come to rely on.

5 advantages of 5G

Greater Capacity

Ultra-High Speeds

Ultra-High Reliability

Ultra-Low Latency

Massive Device Connectivity

Learn More

Watch our videos to learn more about 5G and evolving FirstNet.

[FirstNet.gov/5Gintro](https://www.firstnet.gov/5Gintro)

[FirstNet.gov/5Gbenefits](https://www.firstnet.gov/5Gbenefits)



Telemedicine

High-quality video will help EMS officials and doctors at the hospital get accurate imaging from incident scenes and share data in real time.



Remote Work

Public safety functions have left headquarters. 5G will help responders like dispatchers and emergency managers work remotely while accessing and sharing vast amounts of data.



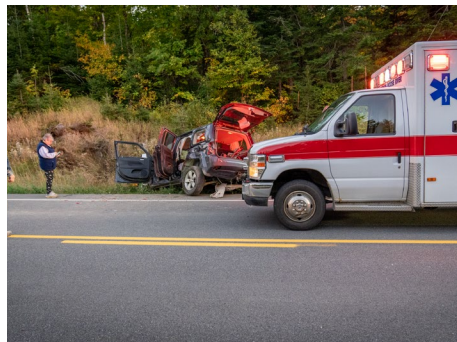
Mobile Offices

Patrol cars have become mobile offices. 5G will help officers move massive amounts of data while they're in the field.



Video

Public safety needs to consume and act on real-time video. High-speed connections allow them access to body cams, street cams, and drones.



Decentralization

5G brings network resources closer to the user. Data is processed and stored at the network's edge, rather than in a central data center, reducing latency.



Massive Internet of Things

5G supports up to 1 million devices per square kilometer, ensuring robust communication even in densely populated emergencies.



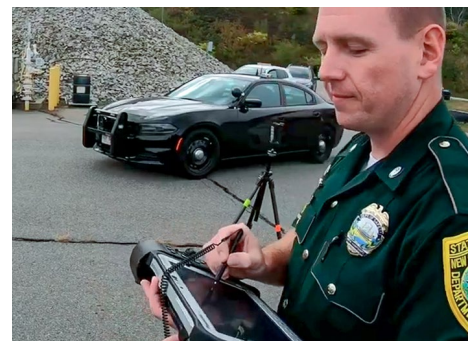
Redundancy

The design of 5G architecture allows for greater redundancy and backup capabilities. This helps users maintain uninterrupted service.



Reliability

A wide swath of spectrum means the right type of network is available for different public safety uses.



QPP

Enhanced Quality of Service, Priority, and Preemption (QPP) and other mission critical services cater to the needs of public safety.