



What does Verizon 5G mean for public safety?

How Verizon Frontline – and reliable, fast Verizon 5G connectivity – empowers first responders



For first responders and other public safety personnel, nothing matters more than reliability. You have to be able to trust your team, equipment – and wireless connectivity. After all, your communications need to get through, every message, every incident – always.

Exceptional reliability has helped make Verizon the #1 network choice in public safety.* Now Verizon 5G wireless connectivity takes reliability even further.



*Based on quarterly third-party wireless voice market share data, Q1 2024




Verizon Frontline delivers advanced solutions designed specifically for first responders, backed by Verizon's 30 years of unwavering commitment to public safety – and ongoing network investment and innovation. More than 35,000 agencies rely on Verizon Frontline to empower their people to communicate, collaborate and stay informed at all times – no matter where their mission takes them. Why? Because of our unequaled network reliability and deep experience meeting the evolving needs of public safety.


Fire and police departments, first responders and other public safety groups, choose Verizon Frontline for reliable wireless connectivity and rock-solid resiliency that can withstand virtually any challenge. In this overview white paper, we'll explore how Verizon 5G connectivity expands the capabilities of Verizon Frontline even further, enabling first responders and others to know more, move faster, stay connected – and ultimately help ensure public safety. All with the power of Verizon 5G.

Meet the core four of Verizon 5G


High reliability, fast speed, low latency and more devices


Verizon Frontline is built on America's most reliable 5G network, giving first responders the speed, coverage and security they rely on to stay connected – during critical incidents as well as blue-sky days. You'll find our network at the heart of all Verizon Frontline solutions. Here's how the four core capabilities of Verizon 5G wireless technology translate into specific benefits for public safety personnel:

 **High reliability** – In public safety, nothing matters more than reliability – team members, equipment and communications. The Verizon 5G network is significantly more reliable than previous network generations. Plus, year-after-year investment in protecting the network ensures that the network is extremely resilient under extreme conditions.

 **Ultra-fast speeds** – Public safety relies on fast access to a flood of critical

information – data, voice, video and more. Verizon 5G Ultra Wideband can handle higher data volumes and use cases that require more bandwidth, such as high-definition video.

 **Low latency** – Public safety can't wait. Low latency (in common parlance, less *lag time*) ensures lightning-fast delivery of data, video and other vital information.

 **Ability to perform in a high-density environment** – Public safety personnel rely on more and more devices, including sensors, cameras and other IoT devices. The higher bandwidth of the Verizon 5G network enables more and faster connectivity, when operating in high-density environments with multiple teams and devices. The bottom line? Verizon 5G connectivity can handle it.

Why Verizon 5G for public safety?

Verizon delivers exceptionally reliable connectivity – the most important criteria for first responders. But reliability isn't an accident, it's the result of a network that is carefully planned and architected. Verizon provides:

- Deep expertise in all areas of network reliability and security
- 30+ years of experience delivering mission-proven communications solutions
- Continual improvement via network enhancements
- Best practices for contingency planning and total network redundancy
- Diversity, redundancy and hardening of all components in the network for exceptional resiliency
- An extensive ecosphere of partners that add advanced devices and applications to our solutions, from ruggedized laptops and tablets to cutting-edge sensors
- The [Verizon Frontline Innovation Program](#), a first-of-its-kind innovation incubator dedicated to creating innovative 5G-enabled solutions for public safety

Enabling public safety personnel with Verizon 5G

Verizon 5G connectivity creates significant new capabilities to public safety. Here are just some of the ways that first responders, police departments, fire departments and other groups are using 5G connectivity to fulfill their missions, keep their teams empowered and safe – and help protect the public.

Reliable, faster communication and collaboration

- **Effortless, *always on* communication** among all public safety personnel
- **Streamlined, constant connectivity** among the entire public safety team – in vehicles, on-site, at headquarters, virtually anywhere
- **Effective coordination of response** during an incident, including multiple teams
- **Real-time diagnostic communications**, including communication between hospitals and ambulances on their way to the

emergency room (via in-vehicle routers and Verizon 5G)

- **Mission-critical applications** that are available to first responders and other mobile workers.

Increased situational awareness

- **Ability to handle more input, information and insights** from next-generation devices, such as smart video and other IoT devices
- **Use of devices that demand low latency**, such as drones, robotics and other devices
- **Broader, deeper safety monitoring**
- **Near real-time high-definition/4K video monitoring**
- **More ubiquitous monitoring** of high-risk areas for greater safety



Explore the Verizon 5G solution portfolio

Reliable, flexible Verizon solutions turn Verizon 5G technology into enhanced capabilities for public safety teams. Here are just some of the current Verizon solutions created specifically to meet the needs of public safety.



Mobile Solutions

Verizon mobile solutions empower all mobile public safety workers – from first responders to support personnel.

Connected, ruggedized tablets and laptops – coupled with purpose-built 5G Ultra Wideband data plans – keep mobile workers connected no matter what.

Solution components:

- Ruggedized connected tablets with Verizon 5G connectivity
- Ruggedized connected laptops with Verizon 5G connectivity
- Purpose-built 5G Ultra Wideband data plans

Benefits:

- Provides reliable and security mobile communications
- Empowers all mobile personnel with access to enterprise-grade applications
- Delivers fast communication/collaboration that speeds emergency response times
- Enables fast, reliability connectivity without requiring WiFi



In-Vehicle Solutions

Choose Verizon in-vehicle solutions to connect vehicles during emergencies/incidents and on more routine days. Verizon purpose-built 5G Ultra Wideband data plans and devices provide reliable, secure and ubiquitous device connectivity for public safety vehicles during response and beyond.

Solution components:

- In-vehicle routers with Verizon 5G connectivity
- Jetpacks/MiFi
- Ruggedized connected laptops or tablets with Verizon 5G connectivity

Benefits:

- Connects vehicles and multiple devices
- Provides reliable, *always-on* communication
- Delivers high performance in difficult working environments
- Ensures secure, seamless access to mission-critical applications

Critical Facility Solutions

Critical facilities need reliable, non-stop connectivity to coordinate field operations and ensure continuity of operations. Our critical facility solutions provide primary or backup connectivity for these mission-critical operations.

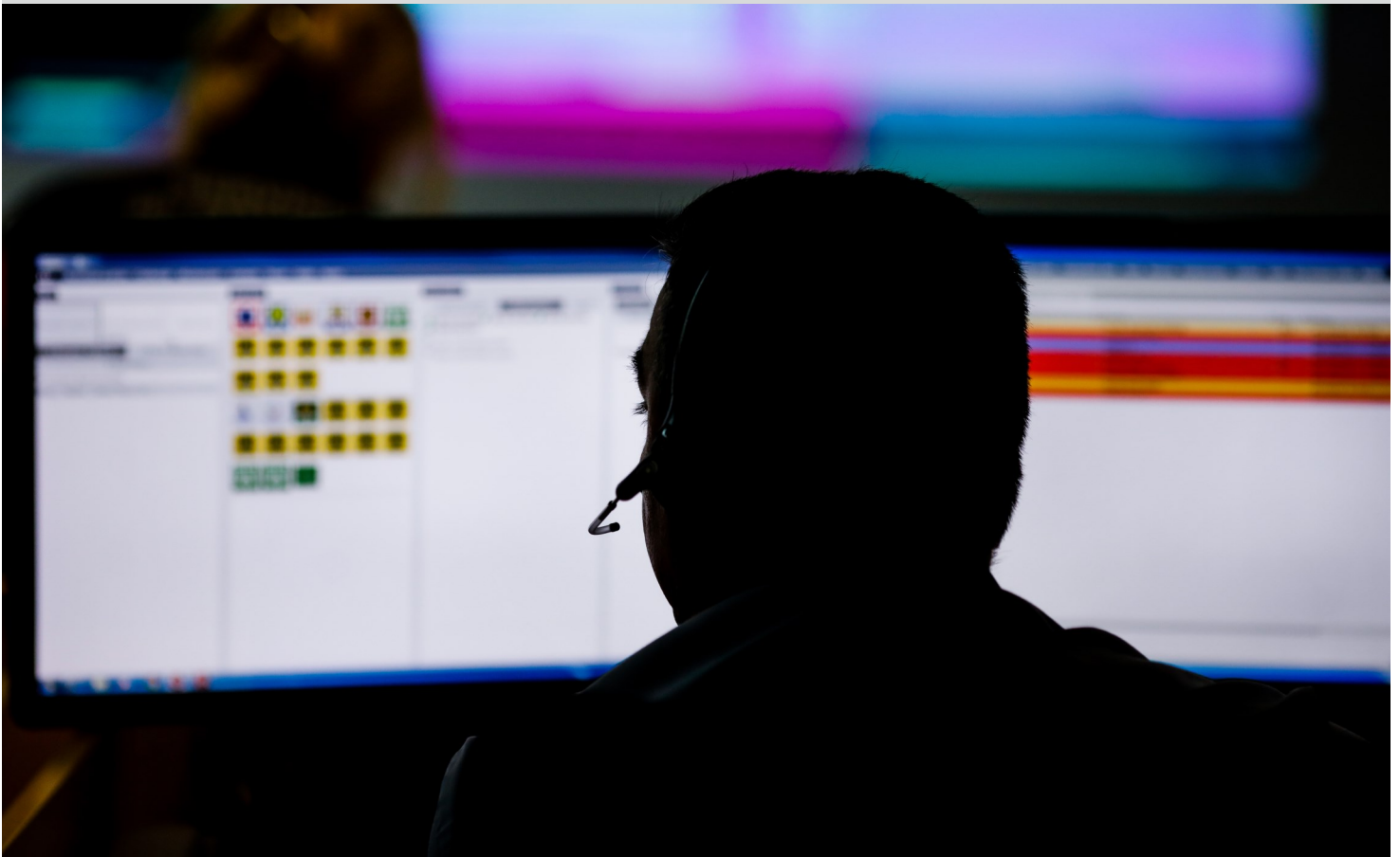
Solution components:

- Fixed wireless routers
- Ruggedized connected tablets with Verizon 5G connectivity
- Ruggedized connected laptops with Verizon 5G connectivity

- Purpose-built 5G Ultra Wideband data and smartphone plans

Benefits:

- Provides critical facilities – Public Safety Answering Points (PSAPs), Emergency Operations Centers (EOCs), bases and other key locations with always-on, cost-effective fixed wireless access failover backup.
- Helps ensure continuity of operations
- Enables faster deployment with a wireless (versus wired) infrastructure



Find out more

Find out more about [Verizon's 5G innovations for public safety](#) – and why so many public safety groups rely on Verizon Frontline every day, every incident, always.

Learn more about Verizon Frontline at [verizonfrontline.com](https://www.verizonfrontline.com).

