

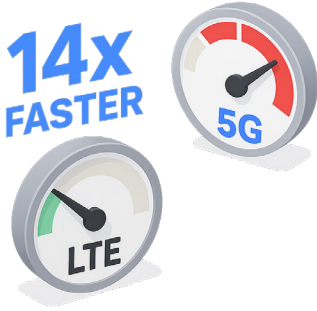
# HOW 5G IS TRANSFORMING FEDERAL IT OPERATIONS

TOUGHBOOK

5G delivers faster, more reliable mobile connectivity for federal agencies—powering cloud adoption, logistics, and edge computing.

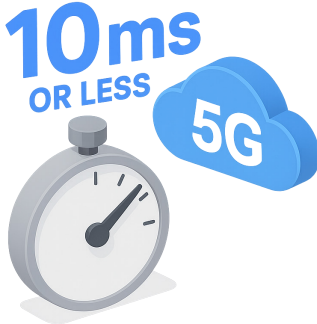


## 5G’S LATENCY IS SIGNIFICANTLY BETTER THAN 4G-LTE



As of late 2024, 5G delivers speeds that can be [up to 14 times faster than 4G-LTE](#).

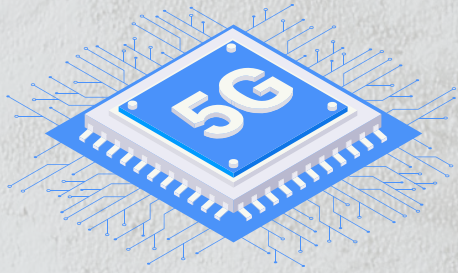
Faster speeds and lower latency support more devices and applications while providing enhanced reliability, security, and coverage in remote and high-density areas.



5G typically reduces latency to [10 milliseconds or less](#), a massive increase compared to the average 4G-LTE performance.

## 5G IN ACTION: MODERNIZING DEFENSE LOGISTICS & OPERATIONS

THE DOD LEVERAGES PRIVATE 5G NETWORKS AT MILITARY INSTALLATIONS TO SUPPORT SMART WAREHOUSING. IT ALSO DEPLOYS 5G SOLUTIONS AS PART OF ITS MODERNIZATION EFFORTS TO DELIVER SECURE, HIGH-SPEED CONNECTIVITY TO MILITARY AND CIVILIAN POPULATIONS.



5G supports data streaming on devices such as:

**CONNECTED LAPTOPS & TABLETS**

**DRONES**

**SENSORS**

**WEARABLE DEVICES**

**VIRTUAL REALITY (VR) & AUGMENTED REALITY (AR) APPLICATIONS FOR TRAINING**

Additional benefits that 5G connectivity brings to the military include real-time data transfers for deployed units, ship-to-shore, and mobile features in aircraft cockpits and flight operations.

## 5G POWERS A “FUTURE-READY WORKFORCE”

WIRELESS CARRIERS LIKE VERIZON CAN PROVIDE FIRST RESPONDERS WITH ALWAYS-ON PRIORITY AND PREEMPTION CAPABILITIES.



[Verizon Frontline](#) solutions help modernize military infrastructure and make smart bases a reality to enable decision-making at the edge, improve security, and shorten response times in emergencies.

These solutions include:

**OPERATING AUTONOMOUS VEHICLES**

**LEVERAGING BIOMETRIC AUTHENTICATION FOR INTELLIGENT GATE SECURITY**

**DEPLOYING AR AND VR SOLUTIONS FOR EFFICIENT AIRCRAFT MAINTENANCE**

**TRAINING**

**SUPPORTING COMPLEX SUPPLY CHAIN MANAGEMENT REQUIREMENTS**

Verizon Frontline Network Slicing provides dedicated network capacity, tailored performance, enhanced reliability, and flexible scalability to efficiently allocate network resources.

5G utilizes enhanced security protocols to address previously unresolved threats. Protocols include stronger encryption, better data privacy, enhanced authentication, and improved reliability and authorization.

## 5G IS DRIVING THE GOVERNMENT’S INFRASTRUCTURE MODERNIZATION EFFORTS

GOVERNMENT HAS THE OPPORTUNITY TO BE LEADERS IN NETWORK EVOLUTION BY CHAMPIONING THE TECHNOLOGY AND PROVIDING NEW OR IMPROVED SERVICES TO ITS CITIZENS.

IT modernization can be a challenge for agencies when faced with overwhelming workloads, limited budgets, and legacy systems.

But agencies don’t have to do this alone.

Panasonic Connect can help leaders make smart decisions on how to evolve their mobile strategy to transform citizen and workforce interactions with the government.

