AXELLIO

MILITARY-GRADE 5G – ESSENTIAL TO ALL-DOMAIN OPERATIONS

5G – creating an economical and military advantage

High-speed, resilient, seamless, and secure wireless communication is fundamental for joint all-domain operations to connect a wide variety of current and future assets – from logistics to the battlefield. And 5G can deliver just that!

5G - Robust, Protected, Resilient, and Reliable

5G is an end-to-end network that combines numerous sophisticated technologies for quicker, more reliable, and secure transmission. 5G has been purposely designed for massive machine-type communication to connect a wide variety of endpoints including wearable sensors, high-resolution imagery from drones, robotic devices such as autonomous vehicles, and swarms of drones to coordinate their flying pattern.

Securely connecting all these devices end-to-end at high-speed while seamlessly integrating into existing network infrastructure makes 5G a perfect fit for many military applications.

5G - Groundbreaking

Unlike 3G, 4G, and 802.11 WiFi, 5G is a comprehensive an end-to-end architecture that exceeds any previous wireless access technologies through a multi-layer approach:

- Transmission speeds up to 100 times faster than 4G LTE.
- Lower latency for faster response times and timely delivery of time-sensitive data.
- Allows thousands of devices to communicate – from sensors to vehicles
- Energy efficiency for extremely compact form factors – from micro-drones or wearable sensors.
- Varying cell sizes and power output to adjust to the use model
- The first multi-layer comprehensive security architecture with end-to-end encryption

5G - Challenging Conventional Network Monitoring

With 5G virtualizing and encrypting every aspect of the delivery chain, from access to network transport to application delivery, the approaches designed for today's environments are no longer sufficient.

Network and infrastructure monitoring applications must evolve to address two fundamental issues:

- Operating in the more virtualized, software-defined environment.
- Dealing with end-to-end encryption – from the initial association with the network to the transport of every piece of data.

Learn More About 5G in Military Applications!

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