Military smart warehouse

ERICSSON

Achieve greater efficiency in Military warehouses with 5G

A 5G smart warehouse incorporated 5G capabilities for transshipments between shore facilities and Naval units. Adding 5G-enabled devices and applications in a warehouse will increase the efficiency and fidelity of Military logistic operations including identification, recording, organization, storage, retrieval, and the transportation of materiel and supplies.

The challenge: Overcoming the limitations of legacy systems

Timeliness, accuracy, security and safety are all part of efficient warehouse operations and required to accomplish mission operations in the constantly evolving threat landscape. Legacy networks, often Wi-Fi based, are not adequate for the demands of advanced Military logistics. Digital transformation of warehouse operations will require automation and rapid communication of massive amounts of data. Moreover, a transformation will leverage advanced technologies such as Artificial intelligence (AI), Augmented reality/Virtual reality (AR/VR) and Edge/Cloud, thrusting Military logistics forward.

The solution: Driving innovation with private 5G networks

A private 5G Radio Access Network is the answer. Ericsson is ready to deploy its proven* private 5G networks at US Military warehouses as part of the US Military digital modernization strategy.

With a private 5G network, the Military will be able to overcome existing operational challenges and enhance warehouse efficiencies. The increased throughput of data, Internet of Things (IoT) support, and low latency will enable optimization of warehouse operations.

The network facilitates several demonstrable use cases that will enhance warehouse efficiencies. The program can be scaled across Military warehouses and logistics centers CONUS and OCONUS.

The solution delivers:

- a high-performance, highly secure, and scalable network

- Zero Trust Architecture capabilities

- roaming capabilities with the service provider of the public network

*Deployed and operational at a Naval warehouse through 5G to Next G program.

Make the leap from "warehouse" to "smart warehouse"

Benefits of the smart warehouse solution

With the private 5G network, the Military Services launches a new era of smart warehouses. Driven by robotics, automation, high-definition video, AR/VR, AI and ML, the smart warehouse features:

Optimization of warehouse operations—thanks to increased throughput of data, IoT support and low latency.

Ability to accommodate more and more advanced devices.

Improved metrics for transshipments between shore facilities and Naval units.

Increased efficiency and fidelity of Military logistic operations—including identification, recording, organization, storage, retrieval, and the transportation of materiel and supplies.

Greater security—High-definition video surveillance delivers high-definition streaming and direct access to any camera placed on the private network to support video surveillance.

Better put/pick metrics—5G-enabled AR technology improves accuracy and reduces processing times.

More accurate and timely recordkeeping—5G-enabled AI and ML, extended from the cloud to the network edge, facilitates object recognition. The system can update the quantity of parts from a conveyor belt in real time.

The Ericsson solution:

- A private 5G network delivering 3.9 Gbps throughput with less than 10 milliseconds of latency
- Ericsson basebands used in conjunction with mmwave and mid-band radios based on design to deliver coverage and performance, indoor and outdoor
- Ericsson 6674 router for network communication
- Ericsson 5G dual mode core
- Ericsson Security Manager
- Ericsson device activation

Let's build the connected defense of the future together.

5G and future "Next G" technologies are critical to the US-networked way of defense. Ericsson has the 5G technology—proven through deployments—to ensure that the US Military has the communications it requires today and for years to come.

Find out how Ericsson can support your mission.

ericsson.com/us/federal