

Private Networks for Warehousing

The first Enterprise Mobility API platform that provides warehouses with the reach and IT/OT mobility needed to manage the complexities of the next-generation connected warehouse.

THE PROBLEM

LOGISTICS MOVE FAST. YOU HAVE TO BE FASTER.

The supply chain has never been so complex, or under as much pressure to perform as it is today. Traditional IT and OT networks are being put to the test as more guided vehicles and other remotely controlled automations are being implemented.

This infrastructure needs a lot of bandwidth at extremely low latency to avoid safety issues and downtime, but it also needs to be flexible enough to deal with the constantly changing warehouse environment. Wi-Fi, with it's interference problems, can't be counted on to be reliable, and you need to be able to count on your network because **your customers are counting on you.**

WE MAKE CREATING PRIVATE LTE
NETWORKS EASY SO YOU CAN FOCUS ON
GETTING THINGS WHERE THEY NEED TO GO

THE ALEF SOLUTION



BETTER COVERAGE

Establish ubiquitous wireless coverage without the RF wrapping headaches inherent in traditional Wi-Fi solutions



MORE CONTROL

Device level access control and support robots and forklifts with low latency



CARRIER CLASS SECURITY

Provide reliable managed spectrum / support seamless carrier-class mobility



COST, SPACE & TIME SAVINGS

Remove the need for expensive on prem solutions and the massive footprint they require

Use Case: Building the Connected Warehouse

High Bandwidth Video CamerasEnable security, biometric analysis and process monitoring

Drones

Stock counting enables real time inventory tracking and analysis

Autonomous Mobile Robots (AMR)

Transport goods around the warehouse, scan barcodes or RFID tags for continuous inventory updates

Push to Talk/Video

Communications for crew and security employees

Employee Connectivity

Connectivity to Warehouse Management System (WMS) for job allocation and handling

Asset Tracking

Sensors for Real Time Location Services (RTLS) to track mobile and portable equipment to optimize utilization

Smart Glasses

Provide real time directions, information, training, automated bar code scanning, and inventory updates to increase employee efficiency while reducing errors

Collaborative Robots (Cobots)
Perform dangerous and tedious
tasks such as moving, palletizing,
and packing goods

Automated Storage & Retrieval Systems

Increase order fulfillment rates, maximize warehouse space and optimize labor resources

Sensors

For condition-based monitoring of equipment for predictive maintenance & quality control

Inventory Pallet Tracking

 RTLS for item and pallet tracking to increase pick and pack operations

Scanners

Handheld scanners capture 1D and 2D barcodes in every application and environment

Private Mobile Networks implement carrier-class dependability and rock-solid mobility—the kind general contractor and construction managers can depend on.