



Rugged Connectivity for Modern Manufacturing, Warehousing, and Logistics

The MWL Challenge

The modern landscape of Manufacturing, Warehousing, and Logistics (MWL) facilities has transitioned from simple barcode scanning environments to data-rich, interconnected ecosystems. This evolution introduces unique challenges in establishing robust wireless networks due to the complex physical architectures and diverse use cases inherent to MWL spaces. At RUCKUS, we understand these complexities and are here to help you navigate them. Our advanced networking solutions are designed to meet the demands of Industry 4.0, ensuring seamless connectivity for a diverse array of devices. Key challenges facing MWL include:



Resilience & Continuity

- Addressing single points of failure
- Implementing robust redundancy, where critical devices connect to multiple network paths
- Utilizing redundant uplinks and power supplies for core devices
- Ensuring fast and reliable roaming for mobile assets such as AGVs



Real-time Performance at Scale

- Complexity of New Technologies
- Upgrading to higher-bandwidth connections (10 GbE, 25 GbE, 100 GbE) at the core
- Implementing Quality of Service (QoS) to prioritize critical applications
- Network Segmentation using VLANs, especially with convergence of IT and OT devices



Operational Efficiency – Lean IT

- AI driven insights and automation
- Proactively resolve issues before they impact users/uptime
- AI enable autonomous networking lowers OpEx
- Cloud based management platforms (RUCKUS One)

RUCKUS Solution

RUCKUS Networks delivers purpose-built solutions designed for the rigorous demands of MWL environments and includes AI-driven network management, ruggedized IP67 access points, multi-gigabit switching across all layers, and unified IoT integration.

Why Customers Choose Us:

- Better Wi-Fi performance in noisy RF & physically challenging environments.
- Flexible controller solutions, including on-prem, cloud, and hybrid.
- Best-in-class reliability and fast handover (10-35ms) between access points and mobile assets moving across large coverage zones. This ensures seamless roaming and minimal handover time for clients on Wi-Fi.
- Native IoT support on APs, including BLE & Zigbee.



Ocean State Job Lot (US discount retailer)

Customer Objective: Boost warehouse productivity and reduce costs

Results: 85% fewer dropped Wi-Fi connections & less APs required than competing solutions



AVES Group (Seed processing and biofuels manufacturer)

Customer Objective: Increase operational efficiency by increasing reliable communication and data exchange across all departments and systems

Results: 30% reduction in pick & pack errors; 99.3% inventory precision; 70% IT helpdesk ticket reductions



Condigel Group (Cold-chain Logistics)

Customer Objective: Reliable wireless coverage throughout cold-storage warehouse with temperatures reaching -50°C

Results: 50% reduction in IT helpdesk tickets; near 0% network related downtime (from previous >1 hour/day)

The RUCKUS Advantage



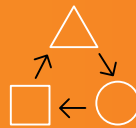
Performance

A RUCKUS network consistently delivers the required network performance to every end user, no matter how challenging the environment.



Simplicity

RUCKUS Networks provides a single platform to manage multiple access networks with zero-touch provisioning and simple, intuitive management.



Adaptability

Our interchangeable deployment options offer easy capacity expansion for future flexibility and investment protection.



Innovation

RUCKUS Networks delivers patented RF core technologies, AI-driven cloud RRM, AI-driven network assurance and more.



Interoperability

Open APIs enable RUCKUS technologies to integrate with third-party and homegrown applications.

Interested in modernizing your MWL operations? Contact the [RUCKUS sales](#) to learn how we can help you eliminate downtime and boost productivity.

www.ruckusnetworks.com

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