TeleWorldSolutions

LOGISTICS PROVIDER IMPROVES WAREHOUSE CONNECTIVITY WITH AN END-TO-END CBRS PRIVATE LTE SOLUTION

INDUSTRY

Logistics & Supply Chain

ENVIRONMENT

- Two distribution centers
- Over 400,000 sq. ft. of combined warehouse space
- Mission-critical mobility and operational connectivity requirements
- Indoor and outdoor coverage needs

BUSINESS CHALLENGE

A leading logistics provider required a secure, reliable, and mobile wireless solution to support warehouse operations, scanning devices, material handling systems, and business applications.

The customer sought more than just wireless coverage. They needed a trusted partner capable of delivering a complete, turnkey solution, from network design and equipment procurement through deployment, commissioning, monitoring, and ongoing operational support.

Traditional Wi-Fi would have required significantly more infrastructure, additional cabling, and a larger number of access points to achieve similar coverage and mobility performance. The customer wanted a solution that aligned with business requirements while avoiding unnecessary complexity and operational overhead.

ONE PARTNER. ONE SOLUTION. END-TO-END ACCOUNTABILITY.

END-TO-END TURNKEY SOLUTION

TeleWorld Solutions (TWS) delivered a complete private network solution, serving as the single partner responsible for the entire lifecycle of the deployment.

The engagement included:

- *Business and technical requirements assessment*
- *CBRS and Private LTE network design*
- *Open RAN architecture design*
- *Core network design and integration*
- *SAS integration and activation*
- *Equipment procurement and logistics*
- *SIM activation and support*
- *Network pre-staging and validation*
- *Installation and commissioning*
- *Optimization and acceptance testing*
- *Remote monitoring and observability*
- *Tier 2 operational support*

Rather than coordinating multiple vendors and service providers, the customer benefited from a fully integrated turnkey deployment delivered through a single accountable partner.

DEPLOYMENT EXCELLENCE

A key factor in project success was **TWS**'s extensive pre-staging methodology

All network components were fully integrated, configured, and validated before shipment. By replicating the production environment in advance, **TWS** minimized deployment risk, reduced onsite troubleshooting, and enabled rapid commissioning.

The networks were operational ahead of planned service activation milestones, helping ensure a smooth transition into production with minimal disruption to warehouse operations.

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SMART DESIGN, MAXIMUM COVERAGE

TWS engineered the solution to provide optimal coverage while minimizing infrastructure requirements.

The deployment utilized only seven CBRS radios across two facilities while providing comprehensive indoor coverage and targeted outdoor coverage.

The outdoor CBRS radios, strategically mounted on warehouse rooftops, also extended coverage to guard shacks located hundreds of meters from the facilities without requiring additional outdoor cabling or infrastructure.

This approach provided:

- *Reduced infrastructure costs*
- *Simplified deployment*
- *Lower operational complexity*
- *Improved coverage efficiency*
- *Enhanced mobility throughout the facilities*

BUSINESS BENEFITS

Superior Mobility
Employees and devices remain connected while moving throughout the warehouse, providing a seamless experience for operational workflows

Secure Connectivity
SIM-based authentication delivers enterprise-grade security for connected devices and applications.

High Availability
Redundant network architecture supports business-critical operations and minimizes operational risk.

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Operational Visibility

Integrated monitoring and observability capabilities provide real-time visibility into network health, performance, and user experience.

Future-Ready Platform

The Private LTE infrastructure provides a scalable foundation for future automation, IoT, AI-driven analytics, asset tracking, and warehouse modernization initiatives.

RESULTS

- Over 400,000 sq. ft. of indoor warehouse coverage across two facilities
- End-to-end turnkey delivery from design through operations
- Pre-staged and validated prior to deployment
- Operational readiness ahead of planned activation milestones
- Reduced infrastructure compared to traditional Wi-Fi approaches
- Seamless mobility for scanners, conveyor systems, and business devices
- Secure, highly available wireless connectivity
- Ongoing monitoring and operational support

WHY TELEWORLD SOLUTIONS

TWS delivers business-focused Private LTE and Private 5G solutions, not just wireless infrastructure.

By combining strategic consulting, system design, deployment expertise, turnkey delivery, proactive monitoring, and long-term operational support, **TWS** enables enterprises to accelerate digital transformation while reducing deployment risk and operational complexity.

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