



CORE Cabling Inc.

wireless case study

The Challenge

A major goods distributor in Ontario was experiencing wireless connectivity issues inside its 400,000 square foot distribution centre. Their operations depend on reliable wireless coverage for handheld picking devices and autonomous machinery.

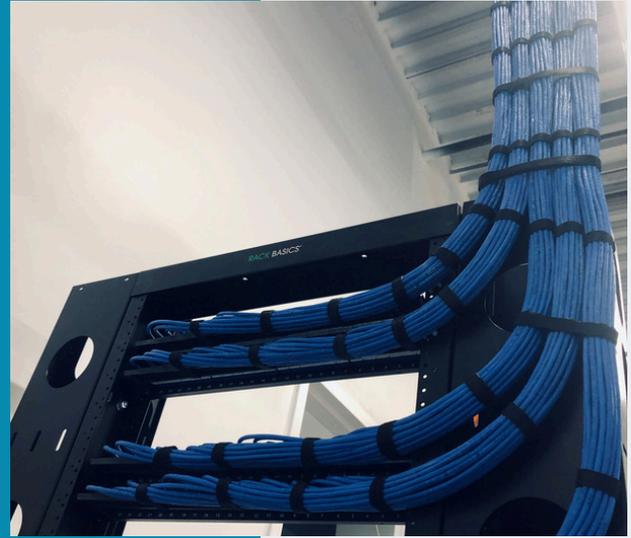
Objectives

Ensure Reliable Wireless Connectivity

- Eliminate dead zones impacting handheld devices and automation
- Maintain signal stability across 400,000 sq. ft. of warehouse floor

Support Operational Efficiency

- Enable uninterrupted movement and communication throughout aisles
- Reduce fulfillment delays tied to connectivity drops



Solution

Wireless Network Design & Optimization

- Performed on-site Ekahau site survey with Cisco Meraki AP models
- Reduced AP count from 160 to 100 to balance cost and coverage

Structured Cabling Overhaul

- Installed OM4 10Gb fibre to 7 IDF's with home-run architecture
- Used Cat6 cabling to ensure <300ft certified runs to APs

RESULT

Stronger Wireless Coverage

- Consistent coverage in all critical areas
- Adaptive Meraki system adjusts dynamically to environmental changes

Reduced Risk

- Zero downtime during installation or since deployment
- No service calls 15+ months post-cutover

Scalable Infrastructure

- Fibre backbone supports future expansion and bandwidth needs
- Fully documented system allows easy upgrades



Conclusion

CORE Cabling's strategic expertise in wireless design, structured cabling, and seamless execution has transformed network performance for this large-scale facility. Their ability to adapt solutions to budget, optimize infrastructure, and ensure operational continuity underscores their leadership in enterprise connectivity solutions.