

# WLAN Refresh Project Case Study

## Client Overview

The client runs large warehouse facilities where wireless coverage has always been a challenge. As the operation grew, so did the WLAN — access points added here, a run of cable there — until the network became a patchwork of dead zones, RF interference, and overcrowded MDF/IDF closets that no one wanted to touch.



### IMPROVED WIRELESS PERFORMANCE

Across warehouses that match targets



### STANDARDIZED SPACE

For a more supportable and organized footprint



### STRONGER INTEGRATION

WLAN design fits perfectly into existing network and stack

## Why PivIT?

We deliver on-site implementation, from the initial scoping workshop through post-deployment validation. For customers with complex operations, that means a wireless network built around how the facility actually works, not just what looks good on a heat map.

## Client Objective

The company needed a **full WLAN refresh** to improve network efficiency and reliability across its warehouse sites. That required designing and installing wireless gear tuned to each building's RF and physical conditions while keeping tight integration with the existing network and security stack.

The target outcomes were clear: predictable coverage, higher throughput, and cleaner, easier-to-manage network rooms, all in a design the in-house team could operate and scale.

## EXENTD's Solution

The project kicked off with a design scoping workshop where EXTEND's engineering team and the client built a High-Level Design together — aligning on requirements before a single cable was run.

From there, EXTEND took ownership of design, deployment, and validation across every site:



**Conducted wireless site surveys** and RF analysis at each warehouse, producing heat maps to define coverage, throughput, and usability requirements — alongside WLC design, high availability planning, security integration, and device optimization.



**Deployed a full wireless infrastructure** at each location: structured cabling for all WAP runs, physical AP installation (35–100 WAPs per warehouse), new wireless controllers, additional MDFs/IDFs where needed, and a full clean-up and reorganization of existing network rooms.



Ran post-deployment passive validation surveys at each site to confirm real-world coverage and performance matched the design, with configuration tuning where needed.