

# Top 10 Causes of Warehouse Wi-Fi Failures

Metronet, LLC - Warehouse & Logistics IT Infrastructure

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Most warehouse Wi-Fi issues do not appear during initial installation. They show up months later, when operations are moving, inventory changes, racks fill up, and users rely on scanners all day.

Use this checklist to identify common causes of scanner delays, roaming failures, dropped connections, and unreliable warehouse connectivity.

1. Overlapping Channels - Too many APs using the same or overlapping channels reduce usable airtime.
2. Access Points Set to Maximum Power - High AP power can cause sticky-client behavior and poor roaming.
3. No Directional Aisle Coverage - Warehouses often need coverage designed down aisles, not office-style coverage.
4. Poor Roaming Thresholds - Scanners may hold weak signals too long unless the WLAN is tuned correctly.
5. Inventory Density Changes - Empty-warehouse testing can fail once racks are filled with product.
6. Metal Rack Interference - Racks, forklifts, pallets, and storage layouts reshape the RF environment.
7. Mixed Legacy Devices - Older scanners and printers need different tuning than laptops and phones.
8. Improper VLAN Segmentation - Poor segmentation creates performance, security, and troubleshooting issues.
9. Lack of Post-Deployment Validation - Networks should be rechecked after go-live and layout changes.
10. No Continuous Monitoring - Without monitoring, small problems become operational disruptions.

Need help diagnosing your warehouse network?

Metronet provides warehouse network assessments covering Wi-Fi, scanner connectivity, roaming behavior, switching, firewalls, VLANs, monitoring, procurement, staging, and support.

Request an assessment: [www.metronetsys.net/warehouse-network-assessment.html](http://www.metronetsys.net/warehouse-network-assessment.html)