

Network Infrastructure Assessment Report

Prepared for: **HarborTech Manufacturing**
Prepared by: Network Infrastructure Assessment Team
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Executive Summary

This assessment evaluates the current state of HarborTech Manufacturing's network infrastructure across two sites. It provides complete visibility into devices, performance, and security posture. Using automated discovery and RMM-based analysis, the report identifies key strengths, potential bottlenecks, and risks requiring remediation. These insights form the basis for a data-driven modernization roadmap that enhances reliability, scalability, and business continuity.

Assessment Overview & Scope

Scope included network core, distribution, and access layers, with full endpoint discovery. Data was collected from 85 core network devices and 120 endpoints including workstations, servers, and IoT peripherals. Testing covered performance (latency, throughput), configuration standards, and firmware compliance across both primary and warehouse locations.

Device Inventory Snapshot

Device Type	Count	Avg Utilization	Firmware Status
Switches	28	68%	3 outdated
Routers	6	54%	All current
Access Points	12	72%	2 outdated
Firewalls	2	49%	All current
Servers	8	62%	1 outdated
Workstations	95	48%	5 outdated
Printers / IoT	15	33%	All current

Key Findings Summary

Category	Finding	Severity
Performance	Intermittent latency spikes between warehouse and main site	Medium
Security	Two access points using outdated WPA2 protocol	High
Lifecycle	Five switches and workstations beyond vendor support lifecycle	High
Configuration	Inconsistent VLAN tagging on guest Wi-Fi and printer subnet	Medium

Recommendations & Next Steps

Performance: Implement QoS on inter-site links, replace aging switches, and upgrade bandwidth between core and warehouse.

Security: Update access point firmware, migrate to WPA3, and apply centralized authentication for device management.

Lifecycle: Replace all end-of-life hardware within six months; maintain rolling refresh schedule tied to warranty cycles.

Next Steps: Conduct optimization workshop, validate proposed architecture, and implement phased modernization plan aligned to FY2026 budget.