

120 Access Points

40 Access Switches

# National Manufacturing Facility IT Infrastructure Build-Out & vCIO Engagement

vCIO Leadership

CIS Controls v8.1

Fusion Computing Limited | Toronto, Ontario | fusioncomputing.ca

120

Aruba Access Points Deployed

40

Access Switches Configured

4

Compliance Frameworks Aligned

0

Security Incidents Post-Launch

## THE CHALLENGE

A national manufacturing firm was commissioning a new Canadian facility and needed a single accountable technology partner to design, deploy, and govern the entire IT and OT infrastructure stack. They required not just execution — but strategic ownership: a vCIO function that could operate at national director of IT level, translate central office governance policies to the local team, and ensure the environment was enterprise-grade from day one.

Internal IT resources were tied to existing operations. The project needed external leadership that could work independently, report at the executive level, and hand off a fully documented, fully governed environment.

## ENGAGEMENT PHASES

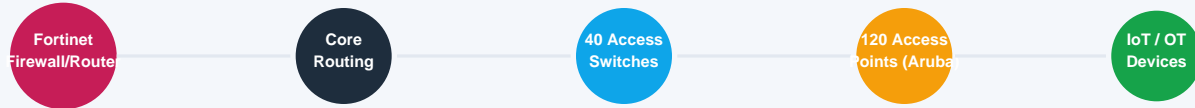


## WHAT FUSION DELIVERED

Network Infrastructure	vCIO Leadership
120 Aruba access points designed, staged, and deployed across the facility floor plan	Project managed at national director of IT level throughout discovery, deployment, and handoff
40 access switches configured and rack-mounted with full labelling and documentation	Central office governance policies translated into local operating procedures and escalation paths
Fortinet firewall and routing stack deployed, configured per Fortinet and CIS best practices	Executive-level reporting delivered to ownership and central IT throughout the engagement
IoT and OT device segmentation via dedicated VLANs with access control policies	Local team trained and equipped with documented runbooks for day-to-day IT operations
Full network documentation: topology diagrams, IP schema, VLAN maps, credential vault	Post-handoff vCIO retainer providing ongoing advisory for executive IT matters

## NETWORK TOPOLOGY SUMMARY

## NETWORK SCOPE — NEW FACILITY



● Fortinet ● Aruba ● Access Layer ● IoT/OT

## COMPLIANCE & FRAMEWORK ALIGNMENT

**CIS Controls v8.1**  
Security Governance

**ITIL Aligned**  
Service Management

**Aruba Best Practices**  
Wireless Architecture

**Fortinet Best Practices**  
Firewall / Routing

Every configuration decision was validated against its framework. CIS Controls v8.1 governed endpoint hardening, access control, and audit logging. ITIL practices structured change management, incident response, and service handoff documentation. Aruba and Fortinet vendor best practices were applied to wireless design and perimeter security respectively. The result is an environment that passes audit review and scales with the facility.

## CLIENT PERSPECTIVE

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*We brought Fusion in to build out the new facility from the ground up and to carry ongoing vCIO responsibility for the local team after handoff. They owned it. Project managed at a national director level, aligned to our central office governance policies, and the local team had a real point of escalation for executive IT decisions. It was handled well.*

Director of IT | National Manufacturing Firm

## OUTCOMES

<b>Facility went live on schedule</b>	Full network stack operational day one. No deferred configurations or outstanding cabling issues at launch.
<b>Zero security incidents post-launch</b>	Segmented IoT/OT VLANs, hardened Fortinet perimeter, and CIS-aligned endpoint policy prevented any post-launch security events.
<b>Local team operationally independent</b>	Documented runbooks, trained staff, and a clear escalation path to Fusion vCIO services means the local team runs day-to-day without dependency.
<b>Audit-ready from day one</b>	Full topology documentation, IP schema, access logs, and change records delivered at handoff. Environment passes internal and third-party review.
<b>Ongoing vCIO advisory retained</b>	Central office continues to use Fusion as the strategic IT advisor for the facility, providing executive-level guidance on IT decisions and vendor management.

## Plan your next facility deployment with Fusion

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