

Powering Defense Networks with Cutting-Edge Switching Solutions

Overview

A leading public sector manufacturer faced mounting pressure to modernize its digital infrastructure. Legacy systems struggled to keep pace with operational demands and evolving cybersecurity threats. Fragmented networks and inconsistent security controls exposed the organization to risk, while new government mandates required rapid compliance upgrades.

Recognizing the need for a strategic partner, the client engaged Black Box to deliver a comprehensive transformation - one that would not only secure their environment but also enable future growth and innovation.

Challenges

As the client expanded its operations, the limitations of its legacy infrastructure became increasingly apparent. Disparate systems created silos, making it difficult to maintain visibility and control. Security maturity varied across business units, and compliance gaps threatened both operational continuity and regulatory standing.

The organization needed a solution that could unify its network, strengthen its cybersecurity posture, and support ongoing digital transformation - all without disrupting mission-critical manufacturing processes.

AT A GLANCE

CHALLENGES

- Legacy network infrastructure limited scalability and security
- Fragmented systems increased operational risk and complexity
- Need for compliance with evolving government cybersecurity mandates

SOLUTIONS

- End-to-end network modernization with SD-WAN and secure LAN/WAN
- Deployment of Black Box's zero trust-aligned cybersecurity framework
- Integration of real-time monitoring and AI-powered threat detection

RESULTS

- 99.99% network uptime supporting mission-critical operations
- Accelerated compliance with government security standards
- Reduced incident response time by 60%

BENEFITS

- Future-proofed infrastructure ready for digital transformation
- Enhanced security posture and executive confidence
- Streamlined operations and reduced resource strain



Solutions

Black Box deployed a tailored SD-WAN and LAN/WAN solution, designed to deliver secure, scalable connectivity across the client's facilities. Leveraging our zero trust-aligned cybersecurity framework, we integrated real-time monitoring, AI-powered threat detection, and automated incident response.

Our approach combined best-in-class technology with deep public sector expertise, ensuring seamless compliance with government mandates and future-ready resilience. The solution was delivered with minimal disruption, empowering the client's IT team to focus on strategic initiatives.

Results

The transformation delivered immediate and measurable value. The client achieved 99.99% network uptime, supporting uninterrupted manufacturing and public sector operations. Compliance with new cybersecurity standards was accelerated, reducing audit risk and boosting executive confidence.

Incident response times dropped by 60%, and the organization gained unified visibility and control over its digital environment. With Black Box as a strategic partner, the client is now positioned to scale securely and confidently in a rapidly evolving landscape.

Why Black Box?

The client chose Black Box for our proven ability to deliver secure, compliant, and future-ready infrastructure. Our agile approach, deep public sector experience, and robust ecosystem of technology partners ensured a solution aligned with both operational and regulatory requirements.

By combining technical strength with strategic foresight, Black Box empowers organizations like this client to drive innovation, reduce risk, and achieve long-term ROI.