Success Story

MICROLAND
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Intelligent Network Transformation

Modernizing Mission-Critical Networks at Scale for a Leading American Aerospace and Defense Major



4,000+
wireless and switching devices upgraded

30%
reduction in transformation timelines

ZERO
operational downtime

100%
compliance achieved

About Client

A globally renowned aerospace and defense manufacturer with operations across high-security sites such as Everett, Charleston, Mesa, and Kennedy Space Center.

The client's outdated Cisco Prime-based network and fragmented RF designs across 31 high-security sites hindered scalability, visibility, and operational efficiency. In sensitive aerospace environments, even minor disruptions posed compliance risks, necessitating a rapid, zero-disruption wireless infrastructure overhaul to enable digital transformation.

Key Challenges

- Aging legacy network infrastructure limiting scalability and modern capabilities
- Inconsistent RF design and documentation causing unreliable coverage across sites
- Specialized environmental constraints in cleanrooms and hangars
- Limited internal resources for large-scale audits and deployments
- Stringent compliance requirements aligned with U.S. defense standards
- Lack of centralized telemetry hindering proactive maintenance & incident response leads to poor network visibility

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Solution

Microland executed an **automation-led, end-to-end network modernization** across **31** mission-critical facilities:

- Upgraded 4,000+ wireless and switching devices using Cisco Catalyst Center and Arista CloudVision
- Implemented template-based workflows, SOP-driven governance, and automation accelerators for zero-disruption rollout
- Pre-staging and plug-and-play readiness minimized onsite installation time
- AI-powered RF design and validation using Ekahau AI Pro for optimal coverage
- Integrated real-time telemetry and IT-OT security alignment
- Structured decommissioning of legacy infrastructure ensuring adherence & compliance to defense-aligned environments
- A robust change management framework ensured deployments met safety and timing requirements for a seamless and disruption-free rollout

Technology Accelerators Deployed



Template-Based Transformation

Repeatable workflows across 31 sites, enabling faster execution and consistent outcomes



Standard Site Audit Template

Accurate RF discovery inputs, improving BoM accuracy and deployment planning



Script Generators

Automated device configurations, eliminating manual errors and improving validation



Change Deployment SOP

Standardized pre- and post-deployment checks, minimizing rework and ensuring rollout success

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Handover Documentation SOP

Client-aligned documentation, streamlining knowledge transfer and operational support

Legacy Gear Decommission SOP

Safe and compliant retirement of legacy equipment, enabling clean transition with reduced risk

Business Value Delivered

The solution delivered enhanced wireless performance through AI-optimized RF coverage across complex environments, while providing real-time network visibility and proactive monitoring via Cisco Spaces. Seamless IT-OT integration strengthened compliance and operational security, ensuring alignment with enterprise cybersecurity policies. Together, this enabled a resilient, future-ready infrastructure with centralized governance and scalable, secure operations to support ongoing digital growth.

ZERO **downtime**

Achieved transformation with zero operational impact across aerospace operations

30% **reduction in transformation timelines**

Enabled faster time-to-value through automation and parallel deployments

100% **compliance adherence**

Sustained rigorous safety and regulatory governance across all defense-aligned facilities



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Recognized by Global Analysts

Gartner

Leader in Magic Quadrant for Managed Network Services, 2024 (5 years in a row)

ISG

Leader in Provider Lens Study - Networks - Software Defined Solutions and Services, 2025

AVASANT

Leader in Avasant Radarview - Network Managed Services, 2025

ISG

Leader in Provider Lens Study - AIOps quadrant of Intelligent Automation Services, 2024

About Microland

Microland is a leading AI-first, platform-led, technology infrastructure services company. We have enabled enterprises to build intelligent, resilient, and future-ready operations and are a trusted partner to global enterprises. We bring over 35 years of expertise in digital networks, cloud, data centers, workplaces, and cybersecurity, and combine it with our commitment to customer centricity, delivery excellence, and continuous innovation. Our operations, currently in more than 100 countries, are supported by a strong global delivery model and our AIOps platform, intelligeni, powered by Agentic AI, which is shaping the future of autonomous technology operations across enterprises.

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