



ConnX Network Assessment

Optimizing Performance, Resiliency, and Operational Efficiency

KNOW HOW YOUR NETWORK REALLY PERFORMS—AND WHAT'S HOLDING IT BACK.

A comprehensive assessment of network architecture, performance, and operations—designed to improve reliability, resiliency, and readiness for future demands.

The Challenge Organizations Face

Modern networks must support increasingly critical business operations across:

- **Cloud and SaaS applications**
- **Distributed users and locations**
- **Real-time collaboration and communications**
- **OT, IoT, and edge-connected systems**

Yet many organizations operate networks that have grown organically over time, resulting in:

- **Inconsistent architecture and configuration**
- **Performance bottlenecks and resiliency gaps**
- **Operational complexity and manual processes**
- **Limited visibility into how the network truly behaves**

What the ConnX Network Assessment Delivers

The ConnX Network Assessment provides a deep, end-to-end evaluation of your network environment—focused on performance, resiliency, and operational effectiveness.

THIS ASSESSMENT HELPS ORGANIZATIONS ANSWER CRITICAL QUESTIONS SUCH AS:

Where are performance constraints impacting users or applications?

How resilient is our network during failures or disruptions?

Are routing, SD-WAN, and wireless designs working as intended?

How well do our network operations support reliability and scale?

The ConnX Difference

ConnX combines **certified drone operations, advanced sensor technology, and infrastructure expertise** to deliver assessments that go beyond imagery—providing real operational insight.

- **End-to-End Network Visibility**
  Assessment of LAN, WAN, Wi-Fi, and SD-WAN environments as a single, interconnected system—not isolated components.
- **Operational Context, Not Just Architecture**
  Evaluation of how the network actually supports applications, users, operations, and safety-critical workflows.
- **IT, OT, and Edge Awareness**
  Understanding of how enterprise networks intersect with OT systems, IoT devices, and field connectivity.
- **Resiliency & Failure-Path Analysis**
  Validation of redundancy, failover behavior, and recovery—not just theoretical design.
- **Vendor-Neutral, Outcome-Driven Insight**
  Objective analysis focused on reliability, scalability, and readiness for modernization.
- **Actionable Roadmaps**
  Clear, prioritized recommendations aligned to operational goals—not abstract best practices.

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Scope of the Assessment

Network Architecture & Configuration

- End-to-end LAN, WAN, Wi-Fi, and SD-WAN architecture
- Routing design, path selection, redundancy, and failover
- Configuration standards, consistency, and change management
- Identification of single points of failure and bottlenecks

WAN & Routing Performance

- WAN topology and routing efficiency
- Latency, packet loss, jitter, and throughput analysis
- Traffic engineering effectiveness
- Opportunities for simplification and improved flow

SD-WAN Design & Behavior

- Policy design and traffic steering effectiveness
- Application performance and link utilization
- Failover behavior and resiliency
- Controller placement and orchestration model

Network Operations & Management

- Monitoring, alerting, and troubleshooting practices
- NOC workflows and escalation procedures
- Automation, configuration management, and documentation
- Identification of operational friction and manual effort

LAN & Wi-Fi Performance

- Switching architecture, capacity, and segmentation
- Wireless coverage, density, roaming, and interference
- Authentication, QoS, and traffic prioritization
- User and device experience considerations

Vendor & Carrier Landscape

- Review of network service providers and platforms
- Evaluation of service performance and alignment
- Identification of architectural overlap or complexity
- Opportunities to simplify and rationalize the environment

The Outcome

- **Clear visibility into network performance and behavior**
- **Improved reliability and resiliency confidence**
- **Reduced operational complexity**
- **A scalable foundation for future initiatives**
- **A practical roadmap for network optimization**

Deliverables

Executive Summary
Network health, risks, and priorities

Current-State Architecture Overview
How the network actually operates

Performance & Resiliency Findings
Constraints and improvement areas

Operational Effectiveness Insights
Tooling, workflows, and readiness

Prioritized Improvement Roadmap
Practical next steps

The ConnX Assessment & Audit Process

STRUCTURED, SAFETY-FIRST APPROACH DESIGNED TO DELIVER ACTIONABLE CONDITION INTELLIGENCE:

Discovery & Intake

- Stakeholder interviews
- Architecture and documentation review
- Identification of performance and reliability priorities

Network Analysis

- Configuration and topology evaluation
- Performance and traffic flow analysis
- Resiliency and failure-path review

Findings & Insights

- Identification of design, configuration, and operational gaps
- Prioritization based on impact and risk
- Performance and reliability observations

Actionable Roadmap

- Clear recommendations aligned to business needs
- Short-, mid-, and long-term improvement guidance
- Foundation for modernization and future growth

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