



BTI Communications Group

Cisco Meraki Authorized Partner | CA | AZ | IL

800-435-7284

info@btigroup.com

btigroup.com

Request a No-Cost Network & Compliance Readiness Assessment – btigroup.com/contact



2026 GUIDE TO CISCO MERAKI MX SD-WAN FOR LOGISTICS, MANUFACTURING & SUPPLY CHAIN NETWORKS

REDUCE DOWNTIME, STRENGTHEN OT/IT SEGMENTATION, IMPROVE SUPPLY CHAIN COMPLIANCE, AND LOWER WAN COSTS ACROSS DISTRIBUTED OPERATIONS.

BTI Communications Group helps logistics, manufacturing, warehousing, and distribution organizations modernize multi-site networks with **Cisco Meraki MX SD-WAN**, secure OT/IT segmentation, and **managed network services**.

Compliance-aligned documentation for C-TPAT, NIST CSF, IEC 62443, cyber insurance, and supply chain security reviews.

ABOUT THIS GUIDE


DOCUMENT SCOPE

This executive guide presents a best-practices framework and representative ROI analysis for deploying Cisco Meraki MX SD-WAN across multi-site logistics, warehousing, distribution, and manufacturing environments – delivered turnkey by BTI Communications Group.

THE STAKES HAVE NEVER BEEN HIGHER FOR LOGISTICS & MANUFACTURING NETWORKS

BTI Communications Group is a **Cisco Meraki Authorized Partner** serving logistics, manufacturing, warehousing, distribution, and supply chain organizations across California, Arizona, and Illinois, with support for customers in Southern California and Chicago and across the U.S. This guide explains why legacy WAN infrastructure creates growing operational risk in multi-site industrial environments – and how **Cisco Meraki MX SD-WAN** provides a proven modernization path that improves resilience, security, compliance readiness, and cost control.

Every hour your network goes down, production lines stop, warehouse management systems go dark, shipments stall, and customer commitments are at risk. For logistics and manufacturing leaders, network reliability is not an IT metric – it is a supply chain continuity metric. BTI Communications Group helps teams pursue Meraki SD-WAN for logistics and Meraki SD-WAN for manufacturing as part of a broader multi-site warehouse network modernization strategy, backed by **managed network services** and 24/7 SOC and NOC monitoring.

 Request a No-Cost Multi-Site Network & Compliance Readiness Assessment – Call **800-435-7284** or visit btigroup.com/contact

99.99%

UPTIME DESIGN OBJECTIVE

Dual-WAN failover targeting 99.99% uptime.
Representative design target, not a guaranteed SLA.

\$260K

EST. DOWNTIME COST/HOUR

Industry modeled range: \$150K–\$260K per hour of unplanned network downtime in manufacturing environments.

60–70%

WAN COST REDUCTION

Representative target outcome replacing MPLS with Meraki MX SD-WAN. Actual savings vary by site count and scope.

C-TPAT

COMPLIANCE DOCUMENTATION

Audit-ready documentation supporting C-TPAT, NIST CSF, and IEC 62443 readiness reviews.

THE CHALLENGE: LEGACY NETWORKS IN LOGISTICS & MANUFACTURING

Most logistics and manufacturing organizations are running networks that were never designed to handle today's operational demands. MPLS circuits built for file sharing cannot support real-time WMS, ERP, IoT sensor data, and OT/IT convergence simultaneously. The result: unplanned downtime, security gaps, and compliance exposure that directly threaten supply chain continuity and supply chain compliance.

BTI Communications Group works with multi-site logistics, warehousing, distribution, and manufacturing organizations across California, Arizona, and Illinois, and nationally, to identify and remediate these legacy network risks through multi-site warehouse network modernization using Cisco Meraki MX SD-WAN.

MPLS COST & RIGIDITY

Legacy MPLS circuits are expensive, slow to provision, and cannot dynamically route traffic based on application priority or link health.

SINGLE POINTS OF FAILURE

Most legacy WAN designs lack automatic failover. A single circuit outage can halt an entire facility.

OT/IT SECURITY GAPS


Operational technology such as PLCs, SCADA, HMI, and IIoT devices often share flat networks with IT systems, making OT/IT segmentation difficult and increasing ransomware exposure and compliance risk.

COMPLIANCE EXPOSURE

Without network segmentation, audit-ready logging, and access controls, organizations struggle to address C-TPAT network security, the NIST Cybersecurity Framework, and IEC 62443 control expectations.

VISIBILITY GAPS

Legacy networks provide little real-time visibility into traffic, threats, or performance, making proactive management nearly impossible.

 Many industrial organizations experience significant annual downtime from equipment, process, network, and system failures. Network downtime is one controllable component that SD-WAN can help reduce. For multi-site logistics operations, a single WAN outage can cascade across facilities, carriers, and customer commitments.

THE MERAKI MX OPERATIONAL TRANSFORMATION FOR LOGISTICS & MANUFACTURING

Cisco Meraki MX SD-WAN represents a fundamental rethinking of how multi-site networks should operate in industrial and logistics environments. For executives evaluating Meraki SD-WAN for logistics or Meraki SD-WAN for manufacturing, it delivers application-aware routing, automatic WAN failover, integrated security, and centralized cloud management – all in a single platform designed for operational simplicity and resilience.

BTI Communications Group supports logistics, manufacturing, warehousing, and distribution organizations across California, Arizona, and Illinois – including Southern California and Chicago – and provides national multi-site support for organizations with distributed operations. BTI delivers logistics network modernization and multi-site warehouse network modernization through fixed-price design, deployment, and managed network services.

DUAL-WAN AUTOMATIC FAILOVER

Meraki MX monitors link health in real time and fails over to a secondary circuit in under 60 seconds, targeting 99.99% uptime as a design objective.

APPLICATION-AWARE TRAFFIC ROUTING

WMS, ERP, VoIP, and OT traffic are prioritized and routed intelligently across available links – ensuring critical applications always get bandwidth.

OT/IT NETWORK SEGMENTATION

Meraki MX enables OT/IT segmentation through VLAN-based controls that isolate PLCs, SCADA systems, HMI devices, and IIoT sensors from corporate IT – a core requirement for IEC 62443 and NIST CSF readiness.

INTEGRATED THREAT PROTECTION

Built-in IDS/IPS, content filtering, and malware protection reduce ransomware exposure without requiring separate security appliances.

CENTRALIZED CLOUD DASHBOARD

All sites are managed from a single Meraki dashboard – enabling real-time visibility, policy enforcement, and proactive alerting across every location.

COMPLIANCE-ALIGNED ARCHITECTURE

Meraki MX supports audit-ready documentation, access logging, and segmentation evidence that helps address C-TPAT, NIST CSF, and IEC 62443 control expectations.

- ③ Meraki SD-WAN for warehouses and distribution centers enables real-time WMS connectivity, barcode scanner reliability, and automated failover – eliminating the manual workarounds that cost operations teams hours per incident.

MERAKI MX SECURITY ARCHITECTURE: BUILT FOR INDUSTRIAL OPERATIONS

In logistics and manufacturing environments, network security is not an IT issue – it is an operational continuity and regulatory compliance issue. Cisco Meraki MX SD-WAN addresses these risks through manufacturing network segmentation, integrated threat protection, and compliance-aligned architecture that supports resilient operations across plants, warehouses, and distribution sites.

BTI Communications Group designs and deploys Meraki MX security architectures that support C-TPAT network security requirements, NIST Cybersecurity Framework logistics cybersecurity controls, and IEC 62443 network segmentation standards – helping organizations prepare audit-ready documentation and defensible evidence packages for supply chain compliance. BTI Communications Group also provides managed network services and 24/7 SOC and NOC monitoring to help maintain the security baseline after deployment.

MANUFACTURING NETWORK SEGMENTATION

VLAN-based OT/IT segmentation isolates PLCs, SCADA systems, HMIs, and IIoT sensors from corporate networks. This SCADA, PLC, HMI, and IIoT network segmentation approach supports IEC 62443 zone and conduit model requirements and helps address common auditor control expectations.

C-TPAT NETWORK SECURITY ALIGNMENT

Meraki MX access controls, logging, and perimeter security help organizations prepare evidence for C-TPAT network security reviews, Minimum Security Criteria assessments, and customs trade partnership audits.

NIST CSF LOGISTICS CYBERSECURITY


Meraki MX supports the Identify, Protect, Detect, Respond, and Recover functions of the NIST Cybersecurity Framework – helping logistics and supply chain organizations align with core cybersecurity controls.


IEC 62443 READINESS

Segmentation, access control, and monitoring capabilities support IEC 62443 industrial cybersecurity readiness for manufacturing and OT environments.

INTEGRATED IDS/IPS & THREAT INTELLIGENCE

Built-in intrusion detection and prevention, powered by Cisco Talos threat intelligence, monitors for known attack patterns without requiring a separate security appliance.

 Ransomware attacks targeting logistics and manufacturing organizations increased significantly in recent years. A flat, unsegmented network is a common enabler of lateral movement during ransomware incidents. Meraki MX OT/IT segmentation is designed to support containment and reduce lateral movement risk. *(Source: Industry cybersecurity research.)*

 Compliance references in this document are readiness and alignment references. BTI Communications Group helps organizations prepare evidence and documentation that supports auditor review – not a guarantee of audit passage or legal compliance certification.

BTI's engineering team configures these security capabilities as part of your fixed-price implementation so every site starts with the same baseline posture from day one. BTI's 24/7 SOC and NOC continuously monitor security events and network anomalies – helping reduce response time and supporting operational continuity.

REAL-WORLD RESULTS & ROI: WHAT LOGISTICS & MANUFACTURING LEADERS ACTUALLY EXPERIENCE

The operational and financial outcomes of a properly deployed Cisco Meraki MX SD-WAN solution are well-documented across the logistics, manufacturing, and supply chain sectors. The following representative results are based on modeled outcomes from multi-site deployments, industry research, and BTI-managed implementation experience. Actual results depend on circuit costs, site count, bandwidth requirements, licensing, and managed service scope.

BTI Communications Group delivers fixed-price Meraki MX SD-WAN modernization, managed network services, logistics network modernization, and multi-site warehouse network modernization for logistics, manufacturing, warehousing, and distribution organizations across California, Arizona, and Illinois - with compliance documentation, supply chain compliance support, and ongoing optimization included.

Metric	Before (Legacy WAN)	After (Meraki MX SD-WAN)
WAN Circuit Cost	\$3,000-\$8,000/site/month (MPLS)	\$800-\$2,000/site/month (broadband + SD-WAN)
Failover Time	15-45 minutes (manual)	Under 60 seconds (automatic)
Network Visibility	Limited, siloed	Centralized dashboard, all sites
OT/IT Segmentation	Flat or manual VLAN	Policy-based, automated OT/IT segmentation
Compliance Documentation	Manual, inconsistent	Audit-ready, centralized logs
IT Management Overhead	High (per-site, manual)	Low (cloud-managed, centralized)

ILLUSTRATIVE 10-SITE MODEL: 3-YEAR COST COMPARISON

Scenario	Est. 3-Year Cost	vs. Legacy MPLS
Legacy MPLS - 10 sites	~\$1.8M-\$2.1M	Baseline
Meraki MX SD-WAN - 10 sites	~\$600K-\$750K	60-70% lower
Representative Savings	\$1.2M-\$1.4M	Over 3 years

- ✔ Representative 3-year savings: \$1.2M-\$1.4M for a 10-site operation replacing MPLS with Meraki MX SD-WAN. Illustrative model - actual savings depend on circuit costs, site count, licensing, and scope.

KEY PERFORMANCE INDICATORS

91%

DOWNTIME REDUCTION

Representative modeled reduction in unplanned downtime incidents.

60-70%

WAN COST REDUCTION

Representative target vs. legacy MPLS. Varies by site count and scope.

<60 SEC

AUTOMATIC FAILOVER

Meraki MX dual-WAN failover time. Representative design target.

3-6 MO

COMPLIANCE BASELINE

Typical time to audit-ready documentation baseline.

- ③ Illustrative model based on representative multi-site logistics/manufacturing environments. Actual savings depend on circuit costs, site count, bandwidth requirements, licensing, and managed service scope. All figures are representative or modeled outcomes, not guaranteed results.

SUCCESS STORIES: OPERATIONAL TRANSFORMATION IN ACTION

The following representative composite case studies illustrate the types of operational outcomes BTI Communications Group helps logistics, manufacturing, and supply chain organizations achieve with Cisco Meraki MX SD-WAN. These are composite examples based on common deployment scenarios and representative outcomes – not named public client references.

REPRESENTATIVE COMPOSITE CASE STUDY: REGIONAL AUTOMOTIVE COMPONENTS MANUFACTURER

Challenge: A 3-location automotive components manufacturer in the Midwest was running aging MPLS circuits with no automatic failover. A single circuit outage caused 4–6 hours of production downtime per incident, with estimated costs of \$80,000–\$120,000 per event.

Solution: BTI deployed Cisco Meraki MX SD-WAN across all three facilities with dual-WAN failover, OT/IT segmentation, and centralized dashboard management, including SCADA, PLC, HMI, and IIoT network segmentation to better protect operational environments.

- Failover time reduced from 4–6 hours to under 60 seconds, improving continuity across production and operations
- WAN circuit costs reduced by approximately 55% (representative outcome)
- OT/IT segmentation implemented across all three sites, supporting IEC 62443 readiness and stronger industrial network governance
- Compliance documentation baseline established within 90 days

REPRESENTATIVE COMPOSITE CASE STUDY: MULTI-SITE LOGISTICS & DISTRIBUTION OPERATION

Challenge: A regional logistics and distribution company operating 8 warehouse locations across Southern California and Illinois was experiencing frequent WMS outages, barcode scanner failures, and inability to meet C-TPAT documentation requirements for C-TPAT network security.

Solution: BTI deployed Meraki MX SD-WAN with application-aware routing, WMS traffic prioritization, and compliance-aligned network segmentation across all 8 locations.

- WMS uptime improved to 99.9%+ across all locations (representative target outcome)
- C-TPAT audit-ready documentation package completed within 120 days
- IT management overhead reduced – all sites managed from a single dashboard
- Barcode scanner and RF device reliability issues significantly reduced

REPRESENTATIVE COMPOSITE CASE STUDY: FOOD & BEVERAGE DISTRIBUTION

Challenge: A food and beverage distributor with 5 cold-storage facilities needed to modernize WAN infrastructure while meeting FDA FSMA traceability and supply chain security requirements.

Solution: BTI deployed Meraki MX SD-WAN with dual-WAN failover, IoT sensor segmentation, and centralized logging.

- Network downtime reduced by over 85% in the first year (representative outcome)
- IoT sensor data reliability improved across all cold-storage locations
- Compliance documentation aligned with FDA FSMA traceability requirements and supply chain compliance expectations

✔ **BTI Operational Win:** Across representative logistics and manufacturing deployments managed by BTI Communications Group, clients commonly see meaningful reductions in downtime and WAN spend, along with stronger compliance documentation, centralized network visibility, and managed network services – all delivered within fixed-price project scope.

WHY BTI COMMUNICATIONS GROUP DELIVERS RESULTS OTHER PROVIDERS CAN'T

Not every Cisco Meraki partner is equipped to deliver operational transformation in logistics and manufacturing environments. Deploying Cisco Meraki MX SD-WAN across a multi-site industrial operation requires deep expertise in OT/IT convergence, supply chain network architecture, compliance documentation, and managed services – not just hardware installation. BTI Communications Group brings all of these capabilities under one fixed-price engagement.

BTI Communications Group is a **Cisco Meraki Authorized Partner** serving logistics, manufacturing, warehousing, distribution, and supply chain organizations across California, Arizona, and Illinois, including Southern California and Chicago, as well as nationally for multi-site operations. BTI Communications Group provides end-to-end **Meraki MX SD-WAN** design, deployment, **managed network services**, cybersecurity monitoring, and compliance-aligned documentation – all under a single, accountable partner relationship, including multi-site warehouse network modernization initiatives.

CISCO MERAKI AUTHORIZED PARTNER

BTI Communications Group holds Cisco Meraki authorization, ensuring access to current licensing, support escalation paths, and certified engineering resources.

FIXED-PRICE ENGAGEMENTS

No surprise invoices. BTI scopes, prices, and delivers Meraki MX SD-WAN projects at a fixed price – including design, deployment, and documentation.

OT/IT CONVERGENCE EXPERTISE

BTI engineers understand industrial network environments – PLCs, SCADA, PLC, HMI, and IIoT systems – and design OT/IT segmentation architectures that protect operations without disrupting them.

COMPLIANCE DOCUMENTATION SUPPORT

BTI delivers audit-ready documentation packages that support C-TPAT, NIST CSF, and IEC 62443 readiness reviews – helping organizations prepare evidence for audits and insurance reviews.

MANAGED SERVICES & 24/7 MONITORING

BTI's NOC and SOC provide ongoing **managed network services**, 24/7 SOC and NOC monitoring, proactive alerting, and incident response – keeping your operations running after deployment.

MULTI-SITE NATIONAL CAPABILITY

BTI manages multi-site deployments across California, Arizona, Illinois, and nationally – with consistent methodology, documentation, and support at every location.

BTI Communications Group is not a reseller. We are an operational partner. Our engagements include discovery, architecture, staging, deployment, compliance documentation, and ongoing managed services – delivered by engineers who understand logistics and manufacturing environments.

Flexible Delivery Models: BTI serves logistics and manufacturing clients through three engagement models – **Managed IT** (BTI owns the network completely), **Co-Managed IT** (BTI supports your internal team), and **Fully Managed Cybersecurity & Compliance** (BTI owns security posture, monitoring, and regulatory documentation). All three models include fixed pricing and a detailed scope of work.

Ready to see what BTI can do for your operation? **[Request a No-Cost Multi-Site Network & Compliance Readiness Assessment](#)** – or call **800-435-7284**.

IMPLEMENTATION BEST PRACTICES: BTI'S PROVEN DEPLOYMENT METHODOLOGY

A Cisco Meraki MX SD-WAN deployment in a logistics or manufacturing environment is a precision operation. Rushing the design phase, skipping OT network discovery, or deploying without compliance documentation creates operational risk. BTI Communications Group follows a proven 6-phase deployment methodology that ensures every site goes live correctly – on time, on budget, and audit-ready. Serving organizations across California, Arizona, and Illinois, BTI also helps teams strengthen supply chain compliance without disrupting operations.



DISCOVER

BTI Communications Group conducts a full multi-site network discovery – mapping existing WAN circuits, OT/IT topology, application dependencies, compliance requirements, and systems such as SCADA, PLC, HMI, and IIoT, plus failover gaps. Documented assumptions. Defined scope before work begins.



ARCHITECT

BTI designs a Meraki MX SD-WAN architecture tailored to your environment – including dual-WAN failover design, OT/IT segmentation schema, VLAN structure, QoS policies, and compliance documentation framework.



STAGE

All Meraki MX appliances are pre-configured, tested, and staged at BTI's facility before shipping to your sites – reducing on-site installation time and minimizing operational disruption.



DEPLOY

BTI field engineers deploy Meraki MX appliances at each site with zero-touch provisioning, coordinated cutover scheduling, and real-time NOC support – ensuring production continuity throughout the transition.



VALIDATE

Post-deployment validation confirms failover performance, segmentation integrity, application routing, and compliance documentation completeness for C-TPAT, NIST CSF, and IEC 62443 – before BTI hands off to managed services.



MANAGE & OPTIMIZE

BTI Communications Group's NOC and SOC provide 24/7 SOC and NOC monitoring, managed network services, proactive alerting, firmware management, and quarterly optimization reviews – ensuring your network continues to perform as your operations evolve.

BTI's fixed-price methodology means every phase is scoped, documented, and delivered as agreed – with clear scope, documented assumptions, change control for out-of-scope work, and a complete deployment handoff.

Multi-site WAN modernization projects managed by BTI typically complete initial deployment within 60–90 days for 5–10 site operations, depending on circuit availability and site readiness. (Representative timeline based on BTI deployment experience.)

DASHBOARD VISIBILITY, PROACTIVE MANAGEMENT & LONG-TERM SUPPLY CHAIN RESILIENCE

One of the most underappreciated operational advantages of **Cisco Meraki MX SD-WAN** is what it enables after deployment: a level of real-time network visibility and proactive management that legacy WAN infrastructure simply cannot provide. For logistics, manufacturing, and supply chain operations, this visibility translates directly into faster incident response, reduced downtime, and a stronger compliance posture.

BTI Communications Group provides **managed network services** for Meraki MX SD-WAN deployments – including **24/7 SOC and NOC monitoring**, proactive alerting, firmware management, and quarterly business reviews – serving clients across **California, Arizona, and Illinois**, with teams based in **Southern California and Chicago**.

SINGLE-PANE DASHBOARD

All sites, all devices, all traffic – visible from one Meraki dashboard. No per-site logins. No siloed management tools.

REAL-TIME TRAFFIC ANALYTICS

See exactly what applications are consuming bandwidth, which users are active, and where performance issues are occurring – across every location simultaneously.

PROACTIVE ALERTING & INCIDENT RESPONSE

BTI's NOC monitors your Meraki environment 24/7 and responds to alerts before they become outages – helping reduce mean time to resolution by improving visibility, alerting, and response coordination.

FIRMWARE & SECURITY UPDATES

Meraki firmware and security signature updates are managed centrally by BTI – ensuring every site stays current without requiring on-site IT resources.

COMPLIANCE REPORTING & AUDIT SUPPORT

Centralized logging, access records, and configuration history provide the audit trail needed for **C-TPAT, NIST CSF, and IEC 62443** compliance reviews.

- ☐ Supply chain network security is not a one-time project – it is an ongoing operational discipline. BTI's managed services model ensures your Meraki MX environment is continuously monitored, updated, and optimized – so your team can focus on operations, not infrastructure.

- ✓ **Request a No-Cost Multi-Site Network & Compliance Readiness Assessment** – Call **800-435-7284** or visit **btigroup.com/contact**. BTI will review your WAN, firewall, wireless, OT/IT segmentation, monitoring, and compliance documentation posture, then provide a practical roadmap for Cisco Meraki MX SD-WAN modernization.

REQUEST A NO-COST MULTI-SITE NETWORK & COMPLIANCE READINESS ASSESSMENT

BTI Communications Group will review your current WAN, firewall, wireless, segmentation, monitoring, and compliance documentation posture – then provide a practical modernization roadmap for **Cisco Meraki MX SD-WAN**, OT/IT segmentation, and managed network operations. No commitment required. No generic sales pitch.

Choose the engagement path that best fits your current priority. All three begin with a no-cost discovery conversation.

1	2	3
<p>OPTION 1 - COMPLIANCE READINESS REVIEW</p> <p>BEST FIT FOR</p> <p><i>C-TPAT renewal · Cyber insurance reviews · NIST CSF / IEC 62443 assessments · Customer due diligence audits</i></p> <p>BTI reviews your network architecture against C-TPAT, NIST CSF, and IEC 62443 control expectations - identifying gaps and delivering a prioritized remediation roadmap with compliance documentation guidance.</p> <p>→ Request a Compliance Readiness Review at btigroup.com/contact</p>	<p>OPTION 2 - FIXED-PRICE MERAKI MX SD-WAN MODERNIZATION WORKSHOP</p> <p>BEST FIT FOR</p> <p><i>MPLS replacement · Dual-WAN failover · Application-aware routing · OT/IT segmentation · Meraki Dashboard management</i></p> <p>BTI conducts a structured discovery and architecture workshop - delivering a fixed-price Meraki MX SD-WAN modernization proposal with ROI model, site-by-site deployment timeline, and compliance documentation plan.</p> <p>→ Schedule a Modernization Workshop at btigroup.com/contact</p>	<p>OPTION 3 - FULL OPERATIONAL TRANSFORMATION PROPOSAL</p> <p>BEST FIT FOR</p> <p><i>Multi-site organizations ready for site-by-site architecture · Hardware pricing · Licensing · Deployment timeline · Managed services · Compliance documentation</i></p> <p>BTI delivers a complete fixed-price proposal covering Meraki MX SD-WAN design, deployment, managed network services, cybersecurity monitoring, and compliance documentation - across all your sites.</p> <p>→ Request a Full Proposal at btigroup.com/contact</p>

CONTACT BTI COMMUNICATIONS GROUP

800-435-7284

info@btigroup.com

btigroup.com/contact

Cisco Meraki Authorized Partner

CA | AZ | IL | National Multi-Site Support

Logistics · Manufacturing · Warehousing · Distribution · Supply Chain

i All engagements begin with a no-cost discovery conversation. BTI will assess your environment, identify your highest-priority risks, and present a clear path forward - scoped and priced before any work begins. BTI will review your WAN, firewall, wireless, OT/IT segmentation, monitoring, and compliance documentation posture, then provide a practical roadmap for Cisco Meraki MX SD-WAN modernization.

FREQUENTLY ASKED QUESTIONS

Common questions from logistics, manufacturing, warehousing, and supply chain leaders evaluating Cisco Meraki MX SD-WAN and BTI Communications Group managed network services.

WHAT IS CISCO MERAKI MX SD-WAN FOR LOGISTICS AND MANUFACTURING?

Cisco Meraki MX SD-WAN is a cloud-managed network, firewall, and WAN modernization platform that helps logistics, manufacturing, warehousing, and distribution organizations improve multi-site connectivity, automatic failover, application-aware routing, and centralized visibility.

HOW DOES MERAKI MX SUPPORT OT/IT SEGMENTATION?

Meraki MX supports OT/IT segmentation through VLANs, firewall policies, access controls, and centralized management. BTI uses these capabilities to help isolate SCADA, PLC, HMI, IIoT, WMS, ERP, corporate IT, and guest network traffic in a compliance-aligned architecture.

CAN MERAKI MX HELP WITH C-TPAT, NIST CSF, AND IEC 62443 READINESS?


Yes. Meraki MX can support compliance readiness by enabling segmentation, logging, access control, firewall enforcement, and centralized configuration history. BTI helps organizations translate those capabilities into documentation and evidence packages for C-TPAT, NIST CSF, IEC 62443, cyber insurance, and supply chain security reviews.

HOW DOES BTI SUPPORT MERAKI MX AFTER DEPLOYMENT?

BTI provides managed network services, 24/7 SOC and NOC monitoring, proactive alerting, firmware management, incident response coordination, quarterly reviews, and ongoing optimization for Cisco Meraki MX SD-WAN environments.

IS MERAKI SD-WAN A REPLACEMENT FOR MPLS?

For many multi-site organizations, Meraki SD-WAN can reduce dependence on MPLS by combining broadband, fiber, LTE/5G backup, dual-WAN failover, and application-aware routing. The best design depends on site requirements, circuit availability, uptime needs, and compliance expectations.

 Have a question not covered here? Contact BTI Communications Group – Call **800-435-7284**, email info@btigroup.com, or visit btigroup.com/contact.

SOURCES & ASSUMPTIONS

PERFORMANCE & COST CLAIMS

All downtime cost estimates, WAN cost reduction percentages, uptime targets, failover times, and operational improvement figures presented in this document are representative or modeled outcomes based on industry research, Cisco Meraki SD-WAN platform capabilities, and BTI Communications Group managed deployment experience. These figures are illustrative and intended to represent the range of outcomes achievable in comparable multi-site logistics and manufacturing environments. Actual results will vary based on circuit costs, site count, bandwidth requirements, hardware configuration, licensing, managed service scope, and individual organizational factors. No specific outcome is guaranteed.

COMPLIANCE REFERENCES

References to C-TPAT, NIST CSF, IEC 62443, and FDA FSMA in this document are readiness and alignment references only. BTI Communications Group helps organizations prepare network architectures, documentation, and evidence packages that support auditor review and help address common control expectations for C-TPAT, NIST CSF, and IEC 62443. These references do not constitute a guarantee of audit passage, regulatory certification, or legal compliance. Organizations should consult qualified legal, compliance, and regulatory advisors for formal compliance determinations.

CASE STUDIES

All case studies presented in this document are representative composite examples based on common deployment scenarios and typical outcomes observed across BTI-managed Meraki MX SD-WAN deployments. They are not named public client references. Any resemblance to specific organizations is coincidental. Results described are representative of the types of outcomes achievable – not guaranteed results for any specific engagement.

PROPOSALS & PRICING

All proposals, pricing, and project timelines referenced in this document are subject to formal discovery, circuit availability, site assessment, hardware availability, licensing terms, configuration requirements, and final written scope of work. Fixed-price engagements are scoped and priced based on information gathered during BTI's discovery process. Changes to scope, site count, or requirements may affect pricing.

ABOUT BTI COMMUNICATIONS GROUP

BTI Communications Group is a Cisco Meraki Authorized Partner providing managed network services for multi-site organizations that need Cisco Meraki MX SD-WAN, OT/IT segmentation, cybersecurity monitoring, 24/7 SOC and NOC monitoring, and compliance-aligned documentation for supply chain compliance. BTI serves clients across California, Arizona, and Illinois, with particular experience supporting Southern California and Chicago-area operations, as well as national multi-site logistics, manufacturing, warehousing, distribution, and supply chain environments. For more information, visit btigroup.com/contact or call 800-435-7284.

DOCUMENT INFORMATION

Document Title: 2026 Guide to Cisco Meraki MX SD-WAN for Logistics, Manufacturing & Supply Chain Networks. Published by: BTI Communications Group, Cisco Meraki Authorized Partner. Subject: Cisco Meraki MX SD-WAN modernization for logistics, manufacturing, warehousing, distribution, and supply chain organizations. Topics covered: Cisco Meraki MX SD-WAN, Meraki SD-WAN for logistics, Meraki SD-WAN for manufacturing, OT/IT segmentation, SCADA PLC HMI IIoT network segmentation, C-TPAT network security, NIST Cybersecurity Framework, IEC 62443, supply chain compliance, managed network services, 24/7 SOC and NOC monitoring, multi-site WAN modernization, logistics network modernization, manufacturing network segmentation, California Arizona Illinois, Southern California Chicago, national multi-site support. Contact: BTI Communications Group – 800-435-7284 – info@btigroup.com – btigroup.com. © 2026 BTI Communications Group. All rights reserved.