

Cisco Catalyst SD-WAN for Industrial Markets



Benefits

- 402% 5-year ROI
- 15.6 months to payback
- 39% lower total cost of operations
- 38% more efficient network management
- 167% more available bandwidth
- 71% more efficient Help desk operations
- 38% savings in network infrastructure
- 94% reduction in unplanned downtime
- 77% reduction in network degradation
- \$1.5 million additional revenue gained or protected

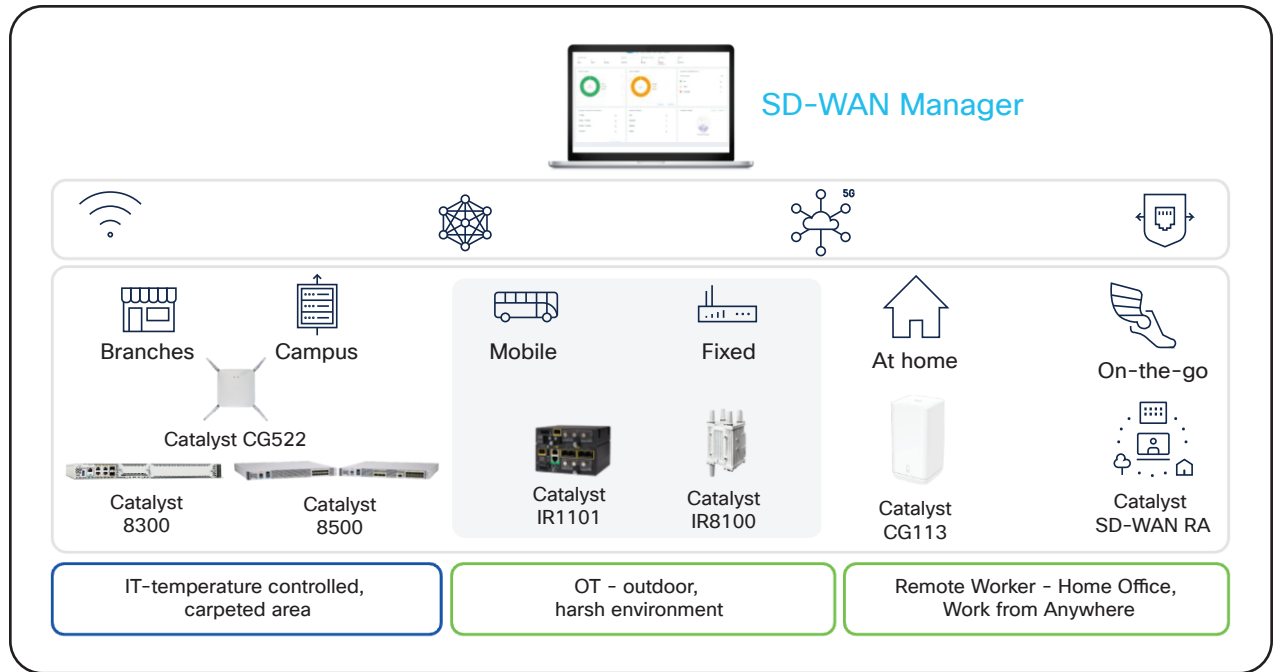


Figure 1. Overview of various Catalyst SD-WAN deployment scenarios

Connect and Secure the industrial edge

The convergence of IT and OT job requirements has been greatly expedited by the growth in investments into industrial networks. Operational technology teams work to ensure that critical infrastructure, remote sites, and other non-carpeted IoT field deployments are operating safely and reliably to keep the business and its constituents running smoothly. On the other hand, IT teams are tasked with ensuring these deployments remain secure, monitored, and available. The growing need for collaboration among teams toppled with the mass-scale growth of IoT devices in networks has created a unique set of challenges for businesses in industrial markets.

Cisco® Catalyst SD-WAN sits at the intersection of enterprise and industrial networks. By providing capabilities that bridge IT and OT teams together while consolidating network management into a central location, Catalyst® Software-Defined WAN (SD-WAN) is the answer for businesses looking to simplify their operations while extending enterprise-grade networking and security to the industrial edge. Through the combination of Catalyst IR Rugged Series Routers and Catalyst SD-WAN, Cisco provides best-in-class

networking and security that connects users and devices reliably and securely, regardless of where they reside. Purpose-built industrial routers provide advanced security and connectivity to industrial IoT deployments through a variety of 5G, SD-WAN-ready, IP67-rated appliances. Catalyst SD-WAN provides central orchestration of these routers and the devices connected to them by delivering analytics, observability, and reliability in a simple and intuitive management console.

Reduced complexity

- Manage enterprise and industrial networks from the same management console with Cisco Catalyst SD-WAN Manager
- Configure, monitor, and troubleshoot network issues from a single, intuitive location
- Elevate IT and OT teams from a reactive model of network management to a data-driven decision-making process
- Easily segment and manage a network from end to end and ensure that device traffic is routed through the appropriate and most efficient path
- Cloud-based SD-WAN can be deployed and managed from anywhere, reducing the complexity from managing on-prem infrastructure

Security at the edge

- Complete integrated security with cloud-delivered Secure Access Service Edge (SASE) or on-premises model, depending on the needs of your organization
- Micro-segmentation and identity-based policy management drive consistent multidomain policy enforcement for a uniform user experience
- Supports third-party integration with widely popular cloud security providers such as Zscaler, Netskope, Cloudflare, and Splunk
- Zero-trust foundation with authentication, encryption, and segmentation
- On-box security with Zone-Based Firewall (ZBF), Next Generation Encryption (NGE), Federal Information Processing Standard (FIPS) 140-2, and much more

Consistent performance

- Regionalized internet access using colocation facilities to quickly spin up new services and provide consistent policy for employees, partners, and guests across the WAN
- High-availability options provide active/active mode for functional hardware device redundancy and mitigation of downtime
- Application-aware routing allows for mission-critical deployments to receive optimized traffic and increased application performance
- Lower the Mean Time to Identification (MTTI) of issues with fast root cause isolation
- Automatically selects the fastest, most reliable path for real-time optimized performance with SaaS and hybrid cloud workloads

Scalable infrastructure

- Automatically onboard new users and devices through Catalyst SD-WAN Manager
- Correlate telemetry, establish benchmarks, and provide insights, transforming network operations to a highly proactive model
- Flexible routing options allow for sites of any size to be integrated into your industrial network—whether it be an ATM or substation
- Automate security policies for new devices being onboarded to your industrial network, allowing for secured scalability

Learn more

Revolutionize the way you manage the industrial edge today.

