Cisco Catalyst Center 3.2.3

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Introduction

Cisco® Catalyst® Center is an on-premises, self-hosted management dashboard for enterprise campus and branch networks. It simplifies how organizations design, deploy, secure, and operate Cisco switching and wireless environments.

Catalyst Center 3.2.3 expands deployment flexibility with support for a virtual appliance on Ubuntu KVM and adds automation, reachability, and security enhancements for SD-Access networks.

Purpose-built for organizations that require local control, data residency, and enterprise-grade governance, Catalyst Center provides end-to-end lifecycle management for Cisco campus infrastructure, including Software-Defined Access (SDA).

With centralized operations and scalable automation to reduce Mean Time To Repair (MTTR), Catalyst Center helps enterprises maximize the value of their Cisco network investments.

Catalyst Center enables organizations to:

- **Accelerate operations with agentic capabilities:** leverage Cisco AI Assistant to autonomously guide troubleshooting, recommend actions, and accelerate issue resolution across complex global deployments
- **Strengthen security and governance:** enforce segmentation, role-based access, and compliance policies across distributed campus and branch environments
- **Automate campus network lifecycle management:** streamline design, deployment, and configuration of network infrastructure through policy-driven workflows that reduce manual configuration
- **Extend network capabilities through open integrations:** use APIs and ecosystem integrations to automate workflows and connect existing network operations with broader IT systems



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AI and AgenticOps

Catalyst Center combines AI-driven insights with automation to help you monitor network health, diagnose problems, identify remediation steps, and validate performance across campus and branch environments.

Cisco AI Assistant

Ask questions, analyze issues, and take action across your network with Cisco AI Assistant in Catalyst Center; also accelerate troubleshooting, surface insights, and reduce time to resolution through AI-powered responses.

Use AI Assistant to interact with your network using natural language across key use cases:

- **Monitoring:** check network, device, and client performance. For example, ask AI Assistant as follows: “Show me all the switches that rebooted today in this network.”
- **Troubleshooting:** analyze issues and identify root causes with data-driven guidance. For example, ask AI Assistant as follows: “Troubleshoot the authentication issue impacting wired client <client name>.”
- **Documentation:** streamline documentation information. For example, ask AI Assistant as follows: “How do I push configuration using CLI templates?”

AI-enhanced Radio-Resource Management (RRM)

AI-enforced Radio-Resource Management (RRM) uses AI to boost wireless network performance and user experience by proactively learning the network’s trends and patterns to enhance how wireless endpoints operate over time.

Cisco AI Network Analytics

Using AI and machine learning, Cisco AI Network Analytics helps you improve performance and issue resolution accurately and effectively by identifying issues, trends, anomalies, and root causes.

- **AI-driven personalized baselining:** The AI-driven baseline for your network’s unique performance parameters continuously adapts as your network evolves. This personalized baseline enables the AI analytics engine (on premises and in the Cisco cloud), to accurately distinguish normal behavior from anomalies.
- **AI-driven anomaly detection:** detect performance issues and ignores harmless network anomalies to reduce noise. AI-driven predictive analytics and proactive insights allow you to anticipate and prevent failures, including predicting increases in Wi-Fi interference, onboarding delays, office traffic load, etc.
- **AI-driven accelerated remediation:** identify the most critical variables related to the root cause of a given problem. Perform complex root cause analysis using a machine-reasoning engine and quickly execute corrective actions for greater productivity.
- **AI Network Analytics** proactively identify underlying issues that can have a sitewide impact on user experience. Cisco AI Network Analytics give you a single view of customizable KPIs to understand the health of devices, users, and applications.

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Catalyst Center Assurance capabilities

Catalyst Center Assurance lets you gain end-to-end visibility and insights to monitor network health, troubleshoot issues, and optimize performance across your environment.

Monitoring

1. Network health

Feature	Description
Network and client health dashboards	Gain visibility into network device and client health for wired and wireless environments with Catalyst Center Assurance dashboards, highlighting the top 10 global issues and enabling a drill-down by site, device list, client list, or topology. Identify performance issues faster with suggested remediation and customizable health scores
Wireless network services analytics	View the overall health of critical services in one place across Cisco and third-party servers, including Authentication, Authorization, and Accounting (AAA) and Dynamic Host Configuration Protocol (DHCP) services for wireless devices. See impacted servers, sites, and users to reduce troubleshooting time and ticket volume.
Reporting	Derive network insights from a set of pre-built and customizable reports with flexible scheduling and configuration options. Example use cases include: ▪ **Capacity planning:** understand how devices in your network are being utilized ▪ **Change of pattern:** track how usage pattern trends change in the network. Usage pattern trends may include clients, devices, bands, or applications. ▪ **Operational reporting:** review reports about network operations, such as upgrade completions or provisioning failures ▪ **Network health:** determine the overall health of your network through reports

2. Client health

Feature	Description
Client 360	Gain visibility into client connectivity and more, to quickly identify issues affecting user access, understand impact, and troubleshoot issues with suggested remediation and resolved issue lists
Connectivity analytics	Gain detailed analytics and insights for Apple iOS, Samsung, and Intel® devices from the device's point of view, without installing an agent on the device

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3. Device health

Feature	Description
Device 360	Gain visibility into device health, including memory or CPU utilization, connectivity, and more. Quickly identify problems and troubleshoot issues with suggested remediation and resolved issue lists.
Intelligent capture	Gain direct access to packet capture data, access point and client statistics, and spectrum data from access points. This enables deeper wireless diagnostics beyond controller-level visibility.
Multivendor device visibility	Gain visibility into third-party devices, including reachability and topology

4. Application health

Feature	Description
Application health dashboard	Provides a comprehensive view of the health of all network applications, including quality metrics for Webex® and Microsoft Teams. Highlights business-relevant applications with identified issues and suggested remediation. Tracks performance of predefined “critical business applications” to enable rapid troubleshooting of core business issues.
Application QoS (Quality of Service) support for industrial switches	Push QoS policies to Cisco Catalyst IE3300 and IE3400 Rugged Series Switches from Catalyst Center’s Application QoS. Applies default QoS trust settings as well as queuing settings based on Cisco Validated Designs, or writes a custom QoS policy for these devices. This removes the complexity of pushing a QoS policy and ensures a good experience for end users in industrial environments.

Troubleshooting

Feature	Description
Machine-Reasoning Engine (MRE)	Analyze complex multi-step tasks, such as finding and fixing potentially crippling routing loops that require a careful analysis spanning multiple devices. Save time by automating complex, tedious workflows.
Wireless 3D analyzer	Enable granular analysis of millions of spatial radio-frequency (RF) data points and visualize wireless coverage to quickly pinpoint and resolve WLAN performance issues. Identify the areas most affected by RF strengths and view client locations. Plus, simulate different RF environments in a virtual office space where you can move an access point, and conduct spatial planning, such as creating an imaginary wall to see the impact on Wi-Fi signal propagation.
Global assurance event viewer	Gain a consolidated view of events across devices, plus search and filter by important events. Using AI Network Analytics, you can identify, correlate, and troubleshoot network issues and quickly get to the root cause.

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Sustainability

Feature	Description
Energy management and Power over Ethernet (PoE) analytics	Optimize energy usage and PoE capacity with energy reporting and monitoring power consumption on any switch for quick installation of IoT endpoint devices. Identify high-consumption devices, prevent overload, and access detailed energy usage reports to reduce costs and support sustainability.

Security

Roles and privileges

Catalyst Center supports site-based Role-Based Access Control (RBAC) for secure and scalable access management.

Site-based RBAC allows you to create granular permissions through access groups, which combine specific roles with specific network sites. Teams can use pre-defined or custom roles to align access with operational responsibilities, ensuring users only manage the parts of the network relevant to them.

Note: Multiple access groups can be assigned to a user. Learn how to configure site-based RBAC.

Table 1. Pre-defined access groups

Role	Privilege
NW-Admin_Global	Access group for global access to the role NW-ADMIN
OBSERVER_Global	Access group for global access to the role OBSERVER
SUPER-ADMIN_Global	Access group for global access to the role SUPER-ADMIN

Security capabilities

Rogue management and aWIPS	Supports the detection of rogue and Cisco Adaptive Wireless Intrusion Prevention System (aWIPS) threats on your network. The Rogue and aWIPS dashboard provides detailed threat analysis and a global view of all rogue access points detected in the network, with insight into the highest priority threats so that they can be quickly identified. The Threat 360 view on this dashboard provides details on any specific threat, including a map view for quick location, and all affected clients.
SNMPv3 authentication support for SHA256	Catalyst Center supports SHA256 as an SNMPv3 authentication type, providing a stronger authentication mechanism compared to older algorithms.

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Rogue AP floor map: location and threat level	View the precise location and threat level of all rogue Access Points (APs) on a floor map for the past hour. Enables quick identification and assessment of rogue AP threats by location and severity, improving network security monitoring.
Traffic steering policies	Supports configuration of traffic steering policies to redirect required traffic to firewalls, enhancing security service insertion and traffic control.
Security service insertion for Cisco SD-Access	Enhances security for Cisco SD-Access fabric networks by steering traffic through firewalls based on predefined policies. Supports both wired and wireless deployments and is compatible with Cisco and third-party firewalls. Provides a zero-trust security solution by automating traffic redirection to firewalls, improving network security posture.

Certifications

Catalyst Center has achieved several security certifications that provide compliance. For more information, including on downloading security certificates, visit the Cisco Trust Portal.

Certification	Description
ISO/IEC 27001:2022	ISO 27001 is an international standard designed to help organizations keep information assets secure. It specifies the requirements for establishing, implementing, maintaining, and continually improving an Information Security Management System (ISMS).
P&C SOC 2 Type 2	SOC 2, or Service Organization Control 2, is a framework designed to provide a platform for specific North American security requirements for sectors such as healthcare, finance, and e-commerce where data security is of the utmost importance. SOC 2 demonstrates trustworthiness to North American customers and many industry verticals, and can be an important validation to additional and broader security conformance.
FIPS 140-2 and FIPS 140-3	FIPS-140-2- and FIPS 140-3-compliant cryptography modules ensure that only strong NIST-approved ciphers are used, and enables deployment in security-conscious verticals such as public sector, finance, and healthcare. During installation, you can choose to enable FIPS, which will ensure only NIST-approved ciphers are used for data encryption.

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Cisco SD-Access features

Table 2. Cisco SD-Access features and benefits

Feature	Description
Enhanced visibility into endpoints and traffic patterns	The endpoint analytics application in Catalyst Center identifies and classifies endpoint devices on a campus network with the use of AI/ML. Through the use of various profiling methods, including Deep Packet Inspection (DPI), it establishes visibility into what is on the network so that new endpoints can be authenticated and assigned an appropriate policy for network usage, security, and segmentation. Group-based policy analytics simplify the delivery of segmentation policies. It uses analytical models to visualize the activity between endpoint profiles, scalable groups, and host groups in order to verify that the network policies are optimizing performance and security. The feature provides a way for users and endpoints to be identified and categorized, and for granular access privileges to be provided to the resources that each endpoint requires, while segmenting them from everything else.
Granular multilevel segmentation	Cisco SD-Access, through Catalyst Center, creates virtual overlays over the underlying physical infrastructure and segments the network without regard to its topology. SD-Access also segments at a micro level by enforcing group-based policies through the network infrastructure. The resulting granular segmentation controls traffic flows without using complex firewalls and Access Control Lists (ACLs), which can be difficult and costly to maintain. **Benefits of fabric infrastructure optimization:** ▪ Automates VRF configurations (lines of business, departments, etc.) and creates overlay virtual networks ▪ Onboards users with 802.1X, MAB, active directory, and static authentication. With an option to move users in a critical VLAN when Cisco Identity Services Engine (Cisco ISE) is unavailable. ▪ Includes a resilient control-plane architecture using LISP pub/sub that allows for dynamic path optimization toward available internet services. It simplifies fabric site design, routing convergence, and troubleshooting tasks. ▪ Simplifies network operations with a standard, error-free underlay network using LAN automation ▪ Uses Encrypted Traffic Analytics (ETA) to further enhance analysis of traffic through AVC and NetFlow

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Feature	Description
	Ease of migration to Cisco SD-Access fabric: • Layer-2 handoff at borders is a key capability, allowing hosts in a Cisco SD-Access fabric to communicate with the traditional network at Layer 2. • Fabric provides support for end hosts that require Layer-2 flooding; for example, building management systems, audio-visual equipment, etc. • Cisco SD-Access introduces the support of existing access VLANs, allowing users to retain their existing access VLAN IDs when creating macro segments in the fabric. Customers can retain existing access VLAN IDs when connecting directly to the SD-Access fabric edge to simplify and speed up their SD-Access segmentation journey. • Macrosegmentation without Cisco ISE capability is suited for deployments that have fabric at the distribution layer connecting downstream to an external Layer-2 switching domain. Customers can deploy an automated network fabric and use macrosegmentation with virtual networks without Cisco ISE. **Deployment flexibility with Cisco SD-Access fabric:** • Cisco SD-Access offers a distributed campus design with automated intersite connectivity with end-to-end policy and segmentation. • Cisco Fabric in a Box allows the border node, control-plane node, and edge node to run on the same fabric node, simplifying fabric deployment for a small site or a branch. • Cisco SD-Access extended nodes provide connectivity to non-carpeted spaces of an enterprise. This allows network connectivity and management of IoT devices and the deployment of traditional enterprise end devices in outdoor and non-carpeted environments, such as distribution centers, warehouses, or campus parking lots. • Cisco SD-Access fabric offers two options for integrating wireless access: – Cisco SD-Access Wireless, using a VXLAN distributed data plane and a centralized control plane, provides a consistent fabric experience and policy simplification for wired and wireless access. – Over-the-top integration involves running a traditional Cisco Unified Wireless Network architecture with Control and Provisioning of Wireless Access Points (CAPWAPs) on top of a fabric-wired network. This is a possible migration step to full Cisco SD-Access wireless implementation.

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Feature	Description
	• Multisite remote border feature allows users to segregate untrusted traffic from various fabric sites into a firewall at the DMZ. • Fabric zone features allow administrators to control the provisioning of IP subnets on selected fabric edge nodes for better site scalability and security. • Cisco SD-Access supports IPv4 as well as IPv6 endpoints. • Cisco SD-Access offers support for the Cisco Wide Area Bonjour application, allowing users to discover and use shared services with minimal intervention and configuration. • Secure network device onboarding of Cisco Catalyst 9000 Series Switches using 802.1X-based authentication and authorization. **Simplified fabric operations:** Cisco SD-Access Assurance allows users to detect, diagnose, and troubleshoot fabric issues in real time with minimized downtime and a better experience. The newly introduced SD-Access Assurance landing page contains the overall fabric health for each fabric site deployed. KPIs configured on the fabric nodes provide insights for faster issue identification and suggested actions to remediate issues. KPIs are organized into categories to quickly triage control plane, infrastructure, and connectivity issues. Other features include the following: • Fabric control plane provides reachability checks between the fabric edge/border and the fabric control plane node. • Fabric infrastructure validates the AAA server status from the fabric edge and policy extended nodes to the Cisco ISE. • Fabric connectivity provides reachability checks from the edge to the fabric border, and control-plane and port-channel connectivity checks between the fabric edge and the extended nodes. • Support for ThousandEyes® Agent on Cisco Catalyst 9000 Series Switches operating in an SD-Access fabric role. This provides the capability to run tests that provide performance metrics and end-to-end visibility. The Cisco Catalyst SD-WAN UX 2.0 provides administrators with an enhanced experience in the user interface that integrates simplicity, flexibility, and a rich, intuitive context.

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Feature	Description
Continuous verification of trust	Cisco Trust Analytics are an aggregation of various inputs and sources into a single, comprehensive, flexible trust score. Trust Analytics detect traffic from endpoints that are exhibiting unusual behavior. When anomalies in the network are detected, Trust Analytics lower the trust score for the endpoint to limit or completely deny access to the network through integration with Cisco ISE. This feature expedites the detection and containment of untrustworthy endpoints that could lead to a security breach.
Assurance issue detection	**Fabric node reachability** • Control plane reachability • Edge reachability • Border reachability • Routing protocol • MAP server **Data plane** • Border and edge connectivity • Border node health • Access node health • Network services DHCP, DNS, AAA **Policy plane** • Cisco ISE or Cisco pxGrid connectivity • Border node policy • Edge node policy **Client onboarding** • Client or device DHCP • Client or device DNS • Client authentication or authorization **Switch** • CPU, memory, temperature • Modules • PoE power • TCAM table

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Cisco SD-Access platform scale

Tables 3 to 9 outline the Cisco SD-Access platform scale. The limits in this section are not necessarily dependent on Catalyst Center, but rather depend on the model of the device and its capacity design.

Table 3. Cisco SD-Access control plane node scale

Cisco SD-Access control plane node scale												
Family	**Cisco Catalyst**									**Cisco ASR 1000, 4000 Series; Cisco ISR**	**Cisco ASR 1000, 4000 Series; Cisco ISR**	**Cisco CSR**
Device	**9300/L**	**9300X**	**9400 Sup-XL/Y**	**9400X**	**9500**	**9500X**	**9500H**	**9600**	**9600X**	**8 GB RAM**	**16 GB RAM**	**1000v**
Endpoints	**16,000**	32,000	80,000	112,000	80,000	1,000,000	150,000	150,000	1,000,000	100,000	200,000	200,000

The control-plane scale does not depend on Ternary Content-Addressable Memory (TCAM); it only consumes memory.

Table 4. Cisco SD-Access border node scale

Family	Cisco Catalyst								
Device	**9300/L**	**9300X**	**9400 Sup-XL/Y SD-Access sdm template**	**9400X**	**9500 SD-Access sdm template**	**9500H**	**9500X**	**9600**	**9600X**
Virtual networks[1]	256	256	256	1000	256	256	1000	256	1000
IPv4 routes	8000	32,000	64,000	96,000	64,000	48,000	512,000	48,000	512,000
Fabric host entries[2] **(host /32 or /128)**	16,000	32,000	70,000	96,000	70,000	150,000	512,000	150,000	512,000

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Family	Cisco Catalyst								
IPv4: SGT bindings	10,000	32,000	40,000	109,000	40,000	200,000	200,000	200,000	200,000
SGT/DGT policies	8000	7400	8000	32,000	8000	16,000	32,000	32,000	32,000
SG-ACEs (contract actions)	5000	4800	18,000	16,000	18,000	13,000	4000	27,000	4000

[1] Virtual network scale also depends on the Catalyst Center platform VN scale. See Table 7 for SD-Access scale.

[2] If an endpoint has multiple IPv4 or IPv6 addresses, then each address will be counted as an individual entry.

Additional notes:

- Fabric host entries include access points and classic and policy-extended nodes.
- Additional border node scale considerations: /32 (IPv4) or /128 (IPv6) entries are used when the border node forwards traffic from outside the fabric to a host in the fabric.

For all switches except Cisco Catalyst 9500 Series High Performance Switches and Cisco Catalyst 9600 Series Switches:

- IPv4 uses one TCAM entry (fabric host entry) for every IPv4 IP address, and
- IPv6 uses two TCAM entries (fabric host entries) for every IPv6 IP address.

For the Cisco Catalyst 9500 Series High Performance Switches and Cisco Catalyst 9600 Series Switches:

- IPv4 uses one TCAM entry (fabric host entry) for every IPv4 IP address, and
- IPv6 uses one TCAM entry (fabric host entry) for every IPv6 IP address.

Table 5. Cisco SD-Access Layer-2 handoff border node scale considerations

Family	Cisco Catalyst						
Device	**9300/L**	**9300X**	**9400**	**9400X**	**9500**	**9500H**	**9600**
Endpoints	8000	32,000	16,000	100,000	16,000	32,000	32,000

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These numbers are the sum of the total numbers of endpoints both inside and outside the fabric site when the site has a border node with a Layer-2 handoff.

The border node with a Layer-2 handoff contains a combination of local and remote LISP entries.

Local entries = LISP database

Remote entries = LISP map-cache

Example:

The Cisco Catalyst 9300 Series Switches support 8000 total entries.

If the fabric site has 6000 endpoints (map-cache), then only 2000 endpoints (database) can be in the traditional network beyond the Layer-2 handoff.

Table 6. Cisco SD-Access edge node scale

Cisco SD-Access edge node scale												
Family	**Cisco Catalyst**							**Cisco Catalyst**				
Device	**9200CX**	**9200-L**	**9200**	**9200 Enhanced VNs**	**9300/L**	**9300X**	**9400**	**9400X**	**9500/H**	**9350**	**IE9300**	**IE3500**
Virtual networks	16	1[1]	4[2]	32[3]	256	256	256	1000	256	256	32	32
Endpoints	4000	2000	4000	4000	6000	18,000	6000	70,000	6000	24000	4000	4000
IPv4: SGT bindings	10,000	8000	10,000	10,000	10,000	32,000	40,000	109,000	40,000	24000	10,000	10,000
SGT/DGT policies	2000	2000	2000	2000	8000	7400	8000	32,000	8000	7400	2000	2000
SG-ACEs (contract actions)	1200	1,000	1000	1000	5000	4800	18,000	16,000	18,000	4800	1000	1000

[1] 9200-L = one (1) user-defined VN (VRF)

[2] 9200 = four (4) user-defined VNs (VRFs)

[3] 9200 “Enhanced VN” SKUs = thirty-two (32) user-defined VNs (VRFs)

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Additional notes:

INFRA_VN is not a VRF definition. It is associated with the global routing table.

DEFAULT_VN is not user-defined; it is automatically created in Catalyst Center. It is present for historical (backward-compatibility) reasons; its use is neither necessary nor recommended.

DEFAULT_VN, if used in host onboarding, is provisioned as a VRF definition and counts as a "user-defined VN."

Table 7. Cisco SD-Access Wireless LAN Controller (WLC) scale

Cisco SD-Access WLC scale		
Device	**Number of access points**	**Number of clients**
Catalyst 9800-L	250/500 (Perf. License)	5000/10000 (Perf. License)
Catalyst 9800-40	2000	32,000
Catalyst 9800-80	6000	64,000
Catalyst CW9800H1	6000	64,000
Catalyst CW9800H2	6000	64,000
Catalyst CW9800M	3000	32,000
Catalyst 9800-CL (4 CPU/8 GB RAM)	1000	10,000
Catalyst 9800-CL (6 CPU/16 GB RAM)	3000	32,000
Catalyst 9800-CL (10 CPU/32 GB RAM)	6000	64,000

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Table 8. Cisco SD-Access edge node scale for access points and wireless endpoints

Cisco SD-Access edge node scale for access points and wireless endpoints						
Family	**Cisco Catalyst**					
Device	**9200-L**	**92001 1**	**9300-L1**	**9300/X**	**9400/X**	**9500/H**
Access points	Not supported	25	50	200	200	200
Wireless endpoints	Not supported	500	1000	4000	4000	4000

Additional notes:

- A single switch and a switch stack have the same scale.
- The switches in Table 8 have limits on access tunnels. An access tunnel is created between the fabric-edge node and a fabric-mode AP that is either directly attached or attached through a directly connected extended node.

Table 9. Cisco SD-Access embedded wireless controller scale

Cisco SD-Access embedded wireless controller scale						
Family	**Cisco Catalyst**					
Device	**9200/L**	**9300-L**	**9300**	**9400**	**9500/H**	**9350**
Access points	Not supported	50	200	200	200	200
Wireless endpoints	Not supported	1000	4000	4000	4000	4000

The embedded wireless scale is the same irrespective of the role of the device (edge, Cisco Fabric in a Box, border, or control plane).

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Network automation

Catalyst Center lets you automate network operations across the full lifecycle, from network deployment and configuration management, to compliance, to lifecycle management. It also helps simplify onboarding, enforce consistency, and streamline operations at scale.

Deployment

Table 10. Deployment

Feature	Description
Campus automation	Discovers brownfield wired and wireless devices and learn their existing configurations. Compares configurations and creates group profiles to automate feature enablement and deployment across sites, while preserving custom CLI configurations and minimizing disruption.
Network discovery	Automatically detects and maps network devices into a physical topology with detailed device-level information. It uses protocols such as Cisco Discovery Protocol, Link Layer Discovery Protocol (LLDP) for endpoints, IP Device Tracking (IPDT) and ARP for host discovery, LLDP Media Endpoint Discovery (LLDP-MED) for IP phones and some servers, and SNMP versions 2 and 3 to gather device data such as IP addresses and neighboring devices. This enables accurate network mapping and inventory management.
Inventory	Maintains a continuously updated inventory of network devices, including host IP addresses, MAC addresses, and network attachment points to serve as a single source of truth. Provides data to applications such as Software Image Management (SWIM) and Cisco EasyQoS to ensure correct device and image versions are used.
Cisco Network Plug and Play (PnP)	Allows off-the-shelf Cisco devices to be provisioned simply by connecting them to the network. Cisco Network PnP provides a secure, scalable, seamless, and unified zero-touch-deployment experience for customers across Cisco's entire enterprise network portfolio of wired and wireless devices. Deploy new devices in minutes without onsite support visits and eliminate repetitive tasks and staging, which can significantly lower Operating Expenses (OpEx). For more details, refer to the solution guide.

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Feature	Description
Branch deployment automation	Simplify workflows for physical and virtual branch automation; day-0 router, and NFV design. Onboard WAN devices and services through these easy steps: 1. Configure network settings, service provider, and IP pools 2. Design a router or virtual profile 3. Assign to sites and provision network devices
Wireless automation	Intent-based workflows for simplified wireless deployment and automation: • Network profiles: A profile is a container of wireless properties that can represent single or multiple sites. • Simplified SSID creation • Advanced RF support for wireless networks • A single workflow to enable Cisco FlexConnect® or centralized wireless deployment • PnP provisioning for APs • IP Access Control List (ACL) support • Access and access control policy for SD-Access Wireless only For more details, refer to the Wireless Automation white paper.

Campus automation

Table 11 lists the supported SD feature scale that can be provisioned at a time.

Table 11. Campus Automation feature provisioning scale

Profile	Features	MD-S	MD-M	MD-L
L2 profile				
	VLAN	50	200	1k
	IGMP snooping	50	200	1k
	MLD snooping	50	200	1k
	MAC address table (static)	50	100	500

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Campus Automation scale varies by Catalyst Center deployment. See Table 12 for supported scale limits. For appliance specifications, see the Cisco Catalyst Center DN3 data sheet.

Table 12 lists Campus Automation scale limits for each Catalyst Center deployment.

Table 12. Campus Automation entity scale by deployment

Entities	DN-SW-APL (Catalyst Center Virtual Appliance)	DN3-HW-APL (Cisco UCS C220 M6 32 cores)	DN3-HW-APL-L (Cisco UCS C220 M6 56 cores)	DN3-HW-APL-XL (Cisco UCS C480 M6 80 cores)	3-Node DN3-HW-APL-XL (Cisco UCS C480 M6 80 cores)
Networks	500	500	1000	2000	2000
Maximum device groups in a network	100[1]	100[1]	100[1]	100[1]	100[1]
Maximum device groups across networks	1000	1000	2000	4000	4000
Maximum number of devices in a device group	100	100	100	100	100
Maximum number of devices in a network	500	500	600	1200	1200
Maximum number of devices across networks	1000	1000	2000	5000	10,000

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Entities	DN-SW-APL (Catalyst Center Virtual Appliance)	DN3-HW-APL (Cisco UCS C220 M6 32 cores)	DN3-HW-APL-L (Cisco UCS C220 M6 56 cores)	DN3-HW-APL-XL (Cisco UCS C480 M6 80 cores)	3-Node DN3-HW-APL-XL (Cisco UCS C480 M6 80 cores)
Maximum number of network profiles	250	250	250	250	250
Maximum number of devices supported in a device group comparison	500	500	600	1200	1200

Configuration management

Table 13. Configuration management capabilities and benefits

Feature	Description
Network design and profile-based management	Enable hierarchical network management by defining sites, buildings, and floors with detailed floor plans on a geospatial map. Create profiles containing common network settings such as device credentials, DHCP, DNS, AAA servers, and IP address pools – with wireless settings such as SSIDs and RF profiles configurable globally or per site. These profiles support automation and can be applied across various device types including Cisco Enterprise NFV Infrastructure Software (Cisco NFVIS), routing, firewall (ASA), switching, and wireless, for consistent and streamlined network configuration.
Device tagging	Tag network devices in order to associate devices that share a common attribute. For example, create a tag and use it to group devices based on a platform ID, Cisco IOS® release, or location. Allows for grouping of devices based on specialized needs.
Configuration drift visibility	Allows visual comparison of any two device configuration versions. Having different versions of a device configuration available allows for accurate accountability of every configuration change.

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Feature	Description
Cisco StackWise® Virtual support	Enables management and monitoring of Cisco Catalyst 9000 Series StackWise Virtual switches. This technology clusters two physical switches into a single logical entity with a unified management plane, simplifying network operations while improving high availability, scalability, management, and maintenance.
Policy creation	Defines policies based on business intent and applies them consistently across the network. Polices are translated into network-specific and device-specific configurations that can be adjusted dynamically based on network conditions. For intent-based networking, policies define the business intent and allow the network to guarantee services.
Application policy creation	Assigns policies to applications based on business relevance and applies them by site to help ensure that business-critical applications receive higher QoS priority at relevant locations. Supports mission-critical use cases such as manufacturing control, healthcare devices, video in customer experience centers, and voice in support sites.

Compliance

Table 14. Network compliance capabilities and benefits

Feature	Description
Rule-based compliance	Build your own compliance policies with a powerful rule-building toolset. Uses string comparisons, regular expressions, expression evaluations, variables, and multiple conditions to periodically evaluate device configurations, CLI show-command outputs, and device properties. Assigns severity levels and custom violation messages to quickly identify and remediate violations across the network. For example: disable Telnet, require external AAA authentication, and verify password policies.
Network compliance, security, and lifecycle insights	Continuously assesses devices against corporate standards and custom compliance policies. Identifies configuration deviations, nonstandard software images, known security vulnerabilities, EoX lifecycle milestones, and applicable field notices. Reviews affected devices and remediates supported compliance violations to reduce risk, improve consistency, and keep the network operating as intended.

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Lifecycle management

Table 15. Lifecycle management capabilities and benefits

Feature	Description
Software Image Management (SWIM)	Centralizes and automates software upgrades across your network: • Manages software images, patches, and maintenance updates • Designates validated images as the standard for specific device families, roles, or tags • Reduces risk with pre- and post-upgrade checks • Schedules distribution and activation separately to minimize disruption • Tracks upgrade progress and software-image compliance Minimizes downtime with ISSU for eligible Cisco Catalyst 9800 Wireless Controllers and Extended Fast Software Upgrade (xFSU) for Catalyst 9300 Series Switches running Cisco IOS XE 17.18.2 or later.
Device replacement and RMA workflows	Workflow templates allow for the replacement (RMA) of switches, routers, and access points. Includes restoration of Cisco IOS software, configurations, and licenses. Also completes device replacement in operational systems such as Cisco ISE, certificate servers, and Catalyst Center inventory. Saves time and retains existing setup, licenses, and KPI trends.

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Integrations

Catalyst Center lets you integrate Cisco and third-party systems to scale network operations, automate workflows, and streamline visibility across your environment.

Platform APIs and extensibility

Table 16. Catalyst Center APIs and benefits

Feature	Description and benefits
Northbound REST APIs	Leverages a vast, comprehensive set of 1000+ APIs across Catalyst Center capabilities. Uses open REST (Representational State Transfer) APIs to integrate with external systems and programmatically access network data. Examples include: • Discovery, device inventory, and network topology • SWIM, Plug-and-Play (PnP), wireless, SD-Access, and application policy • Template programmer and command runner • Assurance: site, device, and client health-monitoring and path tracing • NFV provisioning • Configuring event management notifications
Events and notifications	Enables event-driven integrations with webhooks to receive notifications and responds to events across Catalyst Center Assurance, automation, and other operational workflows.
Cisco DevNet	Accesses Catalyst Center API documentation, SDKs, code samples, learning resources, and sandboxes through Cisco DevNet. Uses available **Terraform** and **Ansible** tools to enable infrastructure-as-code workflows and automate operations.

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IT and ecosystem integrations

Table 17. SD-Access platform

Feature	Description and benefits
IT Service Management (ITSM) integration	Minimize handoffs, deduplicate issues, and optimize processes for proactive insights and faster remediation with open APIs enabling integration with any ITSM system. • Integrate with **ServiceNow** for closed-loop automation through automatic ticket creation, updates, and closure based on network events. • Integrate with **PagerDuty** for real-time alerting and on-call response to accelerate resolution.
IP Address Management (IPAM) integration	Import and synchronize IP pools with external IPAM systems to streamline workflows. Includes out-of-the-box integration with Infoblox and BlueCat, with open APIs to integrate with any IPAM system.
Cisco Networking App Marketplace	Access a broad ecosystem of validated third-party integrations through the Cisco Networking App Marketplace. Extend automation and unlock outcomes across AIOps, NetOps, SecOps, and more to proactively resolve network issues.

Cisco integrations

Table 18. Catalyst Center integrations and benefits

Feature	Description and benefits
ThousandEyes	Deploys Cisco ThousandEyes® agents on all supported switches directly from Catalyst Center, to extend visibility into application performance and quickly isolate performance issues across owned and unowned domains.
Cisco Identity Services Engine (ISE)	Enables identity-based policy, segmentation, and secure fabric operations across the network with Cisco ISE.
Cisco Umbrella	Deploys Cisco Umbrella® across sites and SSIDs within Catalyst Center to enforce DNS-layer security and strengthen your security posture.
Webex	Correlates network performance with collaboration experience using Cisco Webex®. Gains visibility into call quality and quickly troubleshoot user-impacting issues.

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Feature	Description and benefits
Cisco Spaces	Gains location-based insights and analytics with Cisco Spaces. Enables use cases such as occupancy monitoring, asset tracking, and workplace optimization.
Splunk	Streams network data and events for advanced analytics, monitoring, and security insights with Splunk®. Enhances visibility across NetOps and SecOps workflows.

Global network management

Cisco Catalyst Center Global Manager (CCGM)

Cisco Catalyst Center Global Manager (CCGM) provides centralized control across multiple Catalyst Center instances to simplify operations in large, distributed, or regulated environments. Catalyst Center Global Manager (CCGM) solves the challenge of managing siloed deployments by providing a unified view, consistent access control, and streamlined operations across on-premises networks.

Ideal for large enterprises and regulated environments who prefer to self-host and require on-premises delivery across multiple Catalyst Centers.

Learn more in the Cisco Catalyst Center Global Manager data sheet. Included in any networking device subscription at no additional cost.

Meraki and Catalyst Center Global Overview

Meraki® and Catalyst Center Global Overview simplifies hybrid network operations across Meraki cloud-managed and Catalyst Center on-premises networks. Global Overview in the Meraki dashboard provides a unified, cloud-based view of global network health, device status, critical alerts, and operational insights. Search across environments and speed up troubleshooting by cross-launching into Catalyst Center.

It is designed for large enterprises operating hybrid environments who prefer cloud-enabled delivery across Meraki and Catalyst Center.

Learn more in the Meraki and Catalyst Center Global Overview documentation. Included in any networking device subscription at no additional cost.

Cisco Cloud Control

Cisco Cloud Control is our cloud-native platform for AgenticOps that unifies operations by connecting Catalyst Center, Meraki, ThousandEyes, and other Cisco products across networking, security, compute, observability, and collaboration. Use it to bring together inventory, topology, and workflows – and use AI agents to accelerate troubleshooting and actions across domains.

Learn more in the Cisco Cloud Control documentation. Included in any networking device subscription at no additional cost.

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Technical specifications

Latency requirements

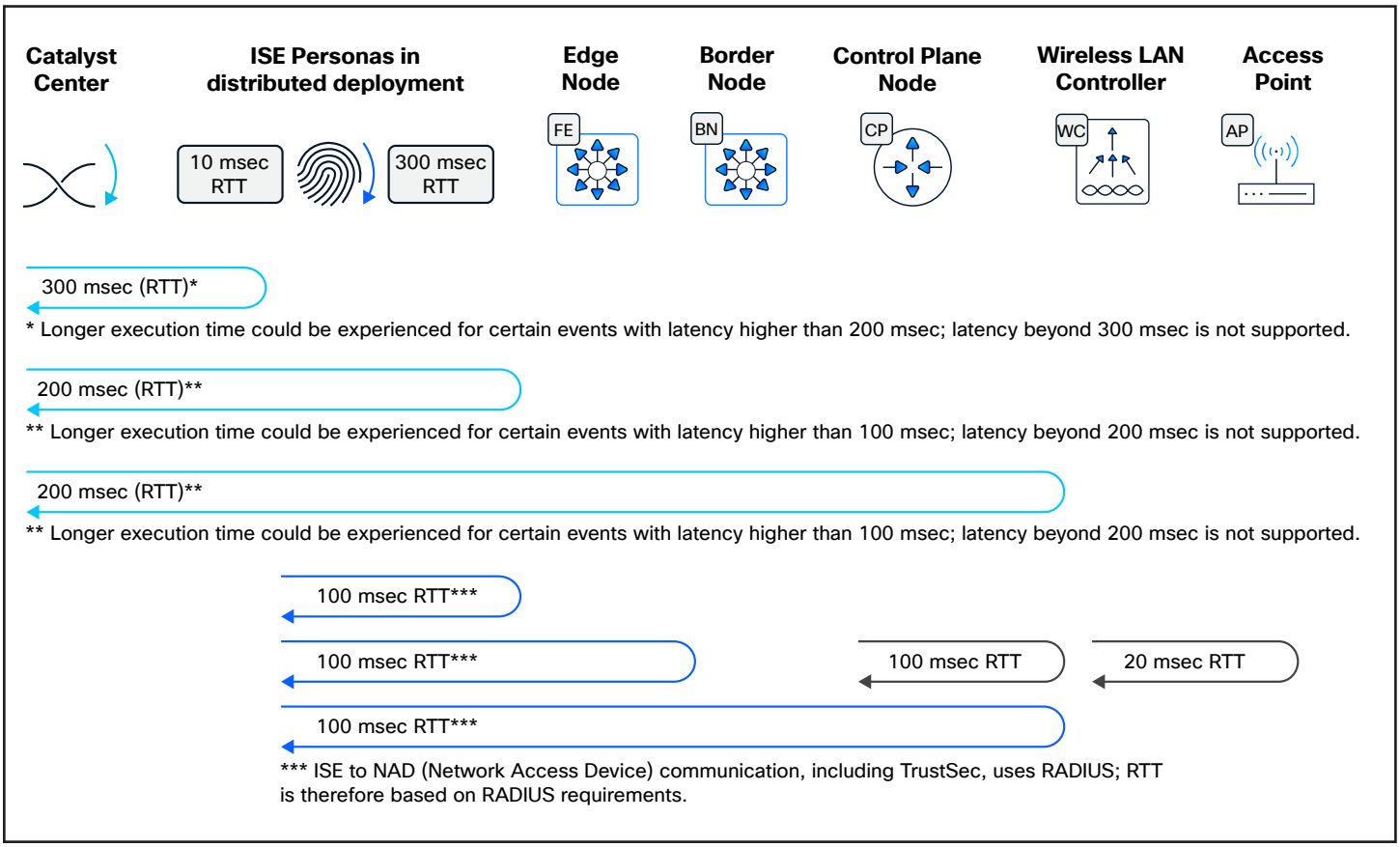


Figure 1. Maximum latency supported, roundtrip time

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Appliance scale

Catalyst Center offers flexible deployment options. It can be deployed on a hardware appliance or as a virtual appliance, on either VMware ESXi or AWS.

The third generation of the Catalyst Center appliance is available in three form factors and comes with the Catalyst Center image preloaded on it and ready for installation.

Tables 19 and 20 capture the scale information for Catalyst Center when deployed on physical appliances.

Table 19. Scale and hardware specifications

SKU	DN-SW-APL	DNx-HW-APL	DNx-HW-APL-L	DNx-HW-APL-XL
Catalyst Center system scale				
Total network devices[1] (not to exceed)	5000	5000	8000	18,000
M-Scale Profile 1 (fabric and non-fabric)	1000 (switch, router, WLC) + 4000 APs		N/A	N/A
M-Scale Profile 2 (fabric and non-fabric)	2000 (switch, router, WLC) + 3000 APs		N/A	N/A
L and XL Scale non-fabric	N/A	N/A	2000 (switch, router, WLC) + 6000 APs	5000 (switch, router, WLC) + 13,000 APs
L and XL Scale fabric	N/A	N/A	4000 (switch, router, WLC) + 4000 APs	8000 (switch, router, WLC) + 10,000 APs
Wireless sensors	600	600	800	1600
Concurrent endpoints	25,000	25,000	40,000	100,000
Transient endpoints (over 14-day period)	75,000	75,000	120,000	250,000

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SKU	DN-SW-APL	DNx-HW-APL	DNx-HW-APL-L	DNx-HW-APL-XL
Ratio of endpoints to wired wireless	Any Any	Any Any	Any Any	Any Any
Site elements	2500	2500	5000	10,000
Wireless controllers	500	500	1000	2000
Physical ports2	48,000	48,000	192,000	480,000
Combined physical[2] and logical ports	120,000	120,000	480,000	1,500,000
API rate limit	Rate limit is managed at a specific API level.	Rate limit is managed at a specific API level.	Rate limit is managed at a specific API level.	Rate limit is managed at a specific API level.
NetFlow flows/ sec	30,000	30,000	48,000	120,000
Concurrent software image updates	100	100	100	100
Catalyst Center SD-Access scale				
Fabric sites[3]	500	500	1000	2000
Catalyst Center scale per fabric site				
Layer 3 Virtual Networks	64/site	64/site	128/site	256/site
Fabric devices	500/site	500/site	600/site	3000/site[4]
Scalable groups	4000	4000	4000	4000
Access contracts	500	500	500	500

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SKU	DN-SW-APL	DNx-HW-APL	DNx-HW-APL-L	DNx-HW-APL-XL
Group-based policies	25,000	25,000	25,000	25,000
IP pools[5]	100[6]	100[6]	300[7]	2000[8,9]
Layer 2 Virtual Networks[4]	200[6]	200[6]	600[7]	2000[8,9]

[1] Switch stacks, StackWise Virtual pairs, VSS pairs, and WLC HA SSO pairs each count as a single device.

[2] Includes all physical ports except the console ports. Includes Redundancy Ports (RPs) on WLCs.

[3] Adding additional fabric sites to an SD-Access deployment does not increase any Catalyst Center system scale parameter. For example, 1000 concurrent endpoints spread over 10 fabric sites and 1000 concurrent endpoints in a single fabric site both contribute equally to system scale.

[4] Fabric zones are mandatory for sites exceeding 1200 devices. Each fabric zone should contain a maximum of 600 fabric devices.

[5] A Layer 2 Virtual Network is a Layer 2 segment in SD-Access with no anycast gateway in the fabric site; a Layer 2 Virtual Network does not use an IP pool.

[6] Per fabric site, the sum of IP pools plus Layer 2 Virtual Networks must not exceed 200.

[7] Per fabric site, the sum of IP pools plus Layer 2 Virtual Networks must not exceed 600.

[8] For any access switch in the fabric, the combined total of IP pools and Layer 2 Virtual Networks must not exceed 1000.

[9] Within a fabric site, if the combined IP pools and Layer 2 Virtual Networks exceed 1000, then all access switches must be configured within a fabric zone.

Table 20. Scale for 3-node DN3-HW-APL-XL cluster

Description	Supported scale
Devices[1] (switch, router, wireless controller [WLC])	10,000
Wireless access points	25,000
Concurrent endpoints	300,000
Transient endpoints (over 14-day period)	750,000
Physical ports[2]	768,000
Combined physical2 and logical ports	2,000,000
NetFlow	250,000 flows/sec

[1] Switch stacks, StackWise Virtual pairs, VSS pairs, and WLC HA SSO pairs each count as a single device.

[2] Includes all physical ports except the console ports. Includes Redundancy Ports (RPs) on WLCs.

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Hardware appliance specifications

The Catalyst Center appliance is available in three form factors and comes with the Catalyst Center image preloaded on it and ready for installation.

Catalyst Center 3.2.3 supports DN2 and DN3 physical appliances in multiple sizes. For detailed hardware specifications, see the Cisco Catalyst Center DN3 Data Sheet.

Virtual appliance requirements

Catalyst Center can be deployed as a virtual appliance on AWS, Microsoft Azure, Ubuntu KVM, or VMware ESXi. For the system requirements, see Table 21 and Table 22 below.

Table 21. Virtual appliance requirements for VMware ESXi

Specification	Requirement
Processors	32 vCPUs with 64 GHz dedicated to the VM
Memory	256-GB Dynamic Random Access Memory (DRAM) dedicated to the VM
Storage	3 TB
ESXi	VMware vSphere (which includes ESXi and vCenter Server) 7.0.x or later, including all patches
I/O bandwidth	180 MB/sec
Input/Output Operations Per Second (IOPS)	2000 to 2500
Network Interface Card (NIC)	1 Gbps network per network port

Table 22. Virtual appliance requirements for AWS

Specification	Requirement
Instance type	r5a.8xlarge
Cores	32 vCPU, either Intel- or AMD-based host
RAM	256 GB
Storage	4 TB
Storage type	GP3 EBS

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Table 23. Virtual appliance requirements for Azure

Specification	Requirement
Instance type	E32s_v4
Cores	32 vCPU
RAM	256GB
Storage	3TB

Table 24. Virtual appliance requirements for Ubuntu KVM

Specification	Requirement
Virtualization platform and hypervisor	Kernel-based Virtual Machine (KVM) on Ubuntu 22.04 LTS or Ubuntu 24.04 LTS.
Processors	Intel Xeon® Scalable server processor (Cascade Lake or newer) or AMD EPYC Gen2 with 2.1 GHz or better clock speed Dedicates 32 virtual CPUs (vCPUs) to the virtual machine and reserves 64 GHz of CPU capacity
Memory	256-GB Dynamic Random Access Memory (DRAM) dedicated to the VM
Storage	3TB Solid-State Drive (SSD)
I/O bandwidth	180 MB/sec
Input/output operations per second (IOPS) rate	2,000 to 2,500, with less than 5 ms of I/O completion latency
Latency	Maximum latency between Catalyst Center on Ubuntu KVM and a network device: 200 ms

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Fabric VN scale

Table 25 captures the fabric VN limits for devices in the fabric when deploying Catalyst Center Release 3.2.3.

Fabric VN limits (The current maximum VRF validation is based on a lower limit of 1 and an upper limit of 128, even if the device can support more than 128.)

Device series	Max VRFs
Cisco Catalyst 6800 Series Switches	1000 (128)
Cisco Catalyst 6500 Series Switches	1000 (128)
Cisco Cloud Services Router 1000V Series	4000 (128)
Cisco ASR 1000 Series Aggregation Services Routers	4000 (128)
Cisco 4000 Series Integrated Services Routers	4000 (128)
Cisco 4400 Series Integrated Services Routers	4000 (128)
Cisco 4200 Series Integrated Services Routers	4000 (128)
Cisco 4300 Series Integrated Services Routers	4000 (128)
Cisco Catalyst 9300/9300X/9350 Series Switches	256
Cisco Catalyst 9300 L Series Switches	256
Cisco Catalyst 9500 Series Switches	256
Cisco Catalyst 9500H Series Switches	256
Cisco Catalyst 9400 Series Switches	256
Cisco Catalyst 9200-L Switch Stack	1
Cisco Catalyst 9200 Switch Stack	4
Cisco Catalyst 9200-24PB Switch	32
Cisco Catalyst 9200-48PB Switch	32
Cisco Catalyst 9200CX Switch	16
Cisco Catalyst 9600 Series Switches	256

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Compatibility matrix

Catalyst Center provides coverage for Cisco enterprise switching, routing, and mobility products. For a complete list of Cisco products supported, please see our compatibility matrix, which is updated regularly.

Catalyst Center compatibility matrix:
https://www.cisco.com/c/dam/en/us/td/docs/Website/enterprise/catalyst_center_compatibility_matrix/index.html

Cisco SD-Access compatibility matrix:
https://www.cisco.com/c/dam/en/us/td/docs/Website/enterprise/sda_compatibility_matrix/index.html

Deployment options

Deploy Catalyst Center where it best fits your organization: on a dedicated physical appliance, in your VMware environment, or as a cloud-hosted virtual appliance on AWS or Microsoft Azure. Each option provides centralized network management through a unified platform.

See our full list of Catalyst Center installation and upgrade guides.

- **Physical appliance:** deploy on Cisco hardware for dedicated, on-premises network management
  - Built on Cisco UCS servers, available in three sizes for different network scales
  - Preloaded with Catalyst Center software, ready for on-premises installation
  - Supports enterprise-scale networks with high device and endpoint capacity
- **Virtual appliance:** deploy in virtualized environments or cloud infrastructure
  - **VMware ESXi Virtual Appliance**
    - See Catalyst Center 3.2.x on ESXi Deployment Guide
    - Deploy Catalyst Center as a virtual machine on VMware vSphere (ESXi and vCenter Server) 7.0.x or later
    - Requires 32 vCPUs, 256 GB RAM, 3 TB storage, and 180 MB/sec I/O bandwidth
    - Enables rapid deployment, operational flexibility, and leverages existing virtualization infrastructure
    - Supports high-availability features through VMware vSphere
  - **AWS or Microsoft Azure virtual appliance**
    - See Catalyst Center 3.1.x on AWS Deployment Guide
    - See Catalyst Center 3.1.x on Azure Deployment Guide
    - Provides cloud operational flexibility and faster time to value without on-premises hardware
    - Software-only deployment runs natively on AWS cloud infrastructure or on Microsoft Azure cloud environments

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Licensing

Unified licensing

Unified licensing in a Cisco Networking Subscription or Enterprise Agreement is available for Cisco next-generation Smart Switches and Wi-Fi 7 access points. To learn more about the Cisco Networking Subscription, go to the data sheet.

Cisco Smart Accounts

Licenses are managed on premises through Cisco Smart Accounts. For a more detailed overview on licensing, go to Cisco Software Licensing and Smart Accounts.

Creating a Smart Account using the Cisco Smart Software Manager (Cisco SSM) enables you to order devices and licensing packages and manage your software licenses from a centralized website. You can set up Cisco SSM to receive daily email alerts and to be notified of expiring add-on licenses that you want to renew.

Cisco Smart Licensing is a flexible licensing model that provides you with an easier, faster, and more consistent way to purchase and manage software across the Cisco portfolio and across your organization. And to do so securely – you control what users can access.

Cisco Enterprise Agreements

The Cisco Enterprise Agreement (EA) is a flexible licensing solution that simplifies the purchase, management, and deployment of Cisco technologies.

By combining multiple Cisco software and services into one agreement, the EA provides easy access to a wide range of products, including networking, security, collaboration, and data-center solutions.

This approach reduces administrative tasks, offers predictable costs, and allows for scalability and adaptability. With the flexibility of the Cisco EA, organizations can drive digital transformation and innovation while maintaining control over their IT investments. For more information, go to Cisco Enterprise Agreement.

For more information

See how Catalyst Center helps you move faster, lower costs, and reduce risk: https://cisco.com/go/catalystcenter.

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