Cisco Catalyst 9800-40 Wireless Controller

Built from the ground up for intent-based networking

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Product overview



Figure 1.
Cisco Catalyst 9800-40 Wireless Controller

Built from the ground-up for intent-based networking and Cisco DNA, Cisco Catalyst 9800 Series Wireless Controllers are Cisco IOS XE based and integrate the RF excellence of Cisco Aironet access points, creating a best-in-class wireless experience for your evolving and growing organization. The 9800 Series is built on an open and programmable architecture with built-in security, streaming telemetry, and rich analytics.

The Cisco Catalyst 9800 Series Wireless Controllers are built on the three pillars of network excellence— always on, secure, and deployed anywhere—which strengthen the network by providing the best wireless experience without compromise, while saving time and money.

The Cisco Catalyst 9800-40 is a fixed wireless controller with seamless software updates for midsize and large enterprises. It is feature rich and enterprise ready to power your business-critical operations and transform end-customer experiences:

- High availability and seamless software updates, enabled by hot and cold patching, keep your clients and services **always** on during planned and unplanned events.
- **Secure** air, devices, and users with the Cisco Catalyst 9800-40. Wireless infrastructure becomes the strongest first line of defense with Cisco Encrypted Traffic Analytics (ETA) and Software-Defined Access (SD-Access). The controller comes with built-in security: Secure Boot, runtime defenses, image signing, integrity verification, and hardware authenticity.
- Built on a modular operating system, the 9800-40 features open and programmable APIs that enable **automation** of day-0 to day-N network operations. Model-driven streaming telemetry provides deep insights into the **health of your network and clients**.
- Cisco User Defined Network, a feature available in Cisco DNA Center, allows IT to give end users control of their very own wireless network partition on a shared network. End users can then remotely and securely deploy their devices on this network. Perfect for university dormitories or extended hospital stays, Cisco User Defined Network grants both device security and control, allowing each user to choose who can connect to their network.
- The Wi-Fi 6 readiness dashboard is a new dashboard in the Assurance menu of Cisco DNA Center. It will look through the inventory of all devices on the network and verify device, software, and client compatibility with the new Wi-Fi 6 standard. After upgrading, advanced wireless analytics will indicate performance and capacity gains as a result of the Wi-Fi 6 deployment. This is an incredible tool that will help your team define where and how the wireless network should be upgraded. It will also give you insights into the access point distribution by protocol (802.11 ac/n/abg), wireless airtime efficiency by protocol, and granular performance metrics.

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- With Cisco In Service Software Upgrade (ISSU), network downtime during a software update or upgrade is a thing of the past. ISSU is a complete image upgrade and update while the network is still running. The software image—or patch—is pushed onto the wireless controller while traffic forwarding continues uninterrupted. All access point and client sessions are retained during the upgrade process. With just a click, your network automatically upgrades to the newest software.

Features

Table 1. Key features

Metric	Value
Maximum number of access points	Up to 2000
Maximum number of clients	32,000
Maximum throughput	Up to 40 Gbps
Maximum WLANs	4096
Maximum VLANs	4096
Maximum site tags	2000
Maximum Flex APs per site	100
Maximum policy tags	2000
Maximum RF tags	2000
Maximum RF profiles	4000
Maximum policy profiles	1000
Maximum Flex profiles	2000
Interfaces	4x 10G/1x 1G SFP+/SFP
Power supply	AC power with optional redundant AC power
Maximum power consumption	381W
Deployment modes	Centralized, Cisco FlexConnect, and Fabric Wireless (SD-Access)
Form factor	1RU
License	Smart License enabled
Operating system	Cisco IOS XE
Management	Cisco DNA Center, Cisco Prime Infrastructure, integrated WebUI, and third party (open standards APIs)*
Interoperability	AireOS-based controllers*

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Metric	Value
Policy engine	Cisco Identity Services Engine (ISE)*
Location platform	Cisco Connected Mobile Experiences (CMX), Cisco Spaces*
Access points	Aironet 802.11ac Wave 1 and Wave 2 access points, Cisco Catalyst 9100 802.11ax access points

*For information on compatibility: Compatibility Guide

Always on

Seamless software updates enable faster resolution of critical issues, introduction of new access points with zero downtime, and flexible software upgrades. Stateful Switchover (SSO) with 1:1 active standby and N+1 redundancy keeps your network, services, and clients always on, even in unplanned events.

Secure

Secure air, devices, and users with the Cisco Catalyst 9800-40 Wireless Controller. Wireless infrastructure becomes the strongest first line of defense with ETA and SD-Access. The controller comes with built-in security: Secure Boot, runtime defenses, image signing, integrity verification, and hardware authenticity. Cisco Advanced Wireless Intrusion Prevention System (aWIPS) is a complete wireless security solution that uses the Cisco Unified Access infrastructure to detect, locate, mitigate, and contain wired and wireless rogues and threats.

Open and programmable

The controller is built on the Cisco IOS XE operating system, which offers a rich set of open standards-based programmable APIs and model-driven telemetry that provide an easy way to automate day-0 to day-N network operations.

Details



Physical dimensions

Table 2. Physical dimensions

Dimension	Value
Width	17.3 inches (43.94 cm)
Depth	19.5 inches (49.53 cm)
Height	1.72 inches (4.37 cm)
Weight	22.8 lb (10.34 kg)

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Front panel



Figure 2.
Front panel

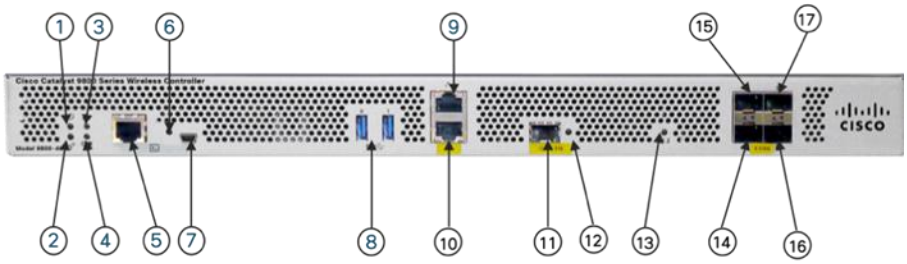


Figure 3.
Front panel components

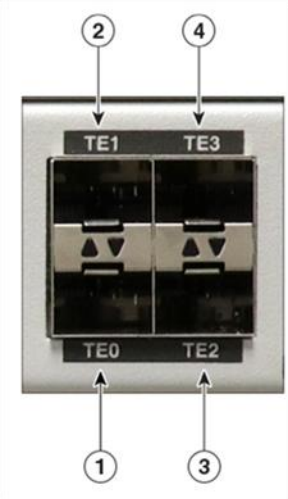


Figure 4.
10G/1G ports

Table 3. Descriptions of front panel components

Label	Component
1	PWR: Power LED
2	SYS: System LED
3	ALM: Alarm LED
4	HA: High-availability LED
5	CON: RJ-45 compatible console port

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Label	Component
6	EN: USB console-enabled LED
7	CON: Mini USB console port
8	USB ports 0 and 1
9	SP: RJ-45 10/100/1000 management Ethernet port
10	RP: RJ-45 10/100/1000 redundancy Ethernet port
11	RP: 1 GE SFP port (the only SFPs supported on the RP port are GLC-SX-MMD and GLC-LH-SMD)
12	LINK: RJ-45 connector LED
13	SSD: SSD activity LED
14	TE0: 1 GE SFP/10 GE SFP+ port 0
15	TE1: 1 GE SFP/10 GE SFP+ port 1
16	TE2: 1 GE SFP/10 GE SFP+ port 2
17	TE3: 1 GE SFP/10 GE SFP+ port 3

Ports

Table 4. Ports and their purpose

Port	Purpose
1x RJ-45 console port	Console port for out-of-band management
1x USB 3.0 console port	Console port for out-of-band management
2x USB 3.0 ports	USB 3.0 ports for plugging in external memory
1x RJ-45 management port	Management port used for out-of-band management. Also known as service port
1x RJ-45 redundancy port	Redundancy port used for SSO
1x SFP Gigabit Ethernet redundancy port	Redundancy port used for SSO • Redundancy port used for SSO; works with Cisco supported SFPs (GLC-LH-SMD and GLC-SX-MMD) for RP port
4x 10G/1G SFP+ or SFP ports	Ports used for sending and receiving traffic between access points and controller, northbound traffic, in-band management traffic, and wireless client traffic. Must be connected to the switch

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Front panel LEDs

Table 5. Front panel LEDs

LED	Color	Function
Power	Green	Green if all power rails are within spec
System status	Green	On: IOS has boot complete Blinking: IOS boot in progress
	Amber	On: System crash Blinking: Secure boot failure Off: ROMMON boot
High Availability	Green	On: HA active Blinking: HA standby hot
	Amber	Slow blink: Booted with HA standby cold Fast blink: HA maintenance
Alarm	Green	On: ROMMON boot complete Blinking: System upgrade in progress
	Amber	On: ROMMON boot and SYSTEM bootup Blinking: Temperature err and secure boot failure
USB console	Green	When LED is lit, USB Console is enabled (RJ-45 console is disabled)
SSD activity	Green	Indicates active use of the hard disk SSD memory devices in the unit
Network link	Green	Solid green indicates link Flashing green indicates activity

Rear panel

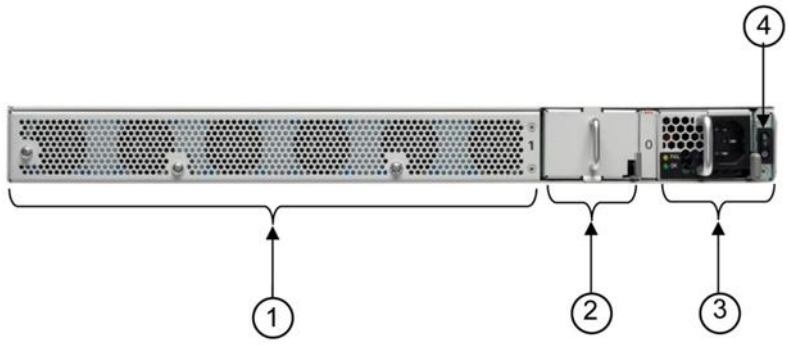


Figure 5.
Rear panel

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Table 6. Descriptions of rear panel components

Label	Component
1	Fans
2	Optional redundant power supply (PEM 1)
3	Power supply (PEM 0)
4	Power/standby switch

Rear panel LEDs

Table 7. Power LEDs

Green LED	Amber LED	Power supply status
Off	Off	No AC power to all power supplies
Off	On	Power supply failure (includes over voltage, over current, over temperature, and fan failure)
Off	1 Hz blinking	Power supply warning events in which the power supply continues to operate (high temperature, high power, and slow fan)
1 Hz blinking	Off	AC present, 12VSB on (power supply off)
On	Off	Power supply on and OK

Power

The 9800-40 controller supports an optional redundant AC power supply.

The AC input ranges are as follows:

- Worldwide ranging AC input range (90 to 264 VAC)

The power entry modules (PEMs) provide redundant power to the system, and the 9800-40 can operate continuously with only a single PEM installed. The PEMs are hot-swappable, and replacement of a single PEM can be made without power interruption to the system. All external connections to the PEMs are made from the rear panel of the chassis, and they are removed or inserted from the rear. The main power switch for the unit is located directly next to the PEMs on the rear of the chassis.

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SFPs supported

The four data ports can operate in either 10G or 1G mode.

Note: 10/100-Mbps operation is not supported.

Table 8. SFPs supported

Type	Modules supported
Small Form-Factor Pluggable (SFP)	GLC-BX-D
	GLC-BX-U
	GLC-LH-SMD
	GLC-SX-MMD
	GLC-EX-SMD
	GLC-ZX-SMD
	GLC-TE
Enhanced SFP (SFP+)	SFP-10G-AOC1M
	SFP-10G-AOC2M
	SFP-10G-AOC3M
	SFP-10G-AOC5M
	SFP-10G-AOC7M
	SFP-10G-AOC10M
	SFP-10G-SR
	SFP-10G-SR-S
	SFP-10G-SR-X
	SFP-10G-LR
	SFP-10G-LRM
	SFP-10G-LR-X
	SFP-10G-ER
	SFP-10G-ZR
	SFP-H10GB-CU1M
	SFP-H10GB-CU1.5M
	SFP-H10GB-CU2M

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Type	Modules supported
	SFP-H10GB-CU2.5M
	SFP-H10GB-CU3M
	SFP-H10GB-CU5M
	SFP-H10GB-ACU7M
	SFP-H10GB-ACU10M
	DWDM-SFP10G-30.33 - DWDM-SFP10G-61.41

Benefits

Cisco IOS XE opens a completely new paradigm in network configuration, operation, and monitoring through network automation. Cisco's automation solution is open, standards-based, and extensible across the entire lifecycle of a network device. The various mechanisms that bring about network automation are outlined below, based on a device lifecycle.

- **Automated device provisioning:** This is the ability to automate the process of upgrading software images and installing configuration files on Cisco access points when they are being deployed in the network for the first time. Cisco provides turnkey solutions such as Plug and Play (PnP) that enable an effortless and automated deployment.
- **API-driven configuration:** Modern wireless controllers such as the Cisco Catalyst 9800-40 Wireless Controller support a wide range of automation features and provide robust open APIs over Network Configuration Protocol (NETCONF) using YANG data models for external tools, both off-the-shelf and custom built, to automatically provision network resources.
- **Granular visibility:** Model-driven telemetry provides a mechanism to stream data from a wireless controller to a destination. The data to be streamed is driven through subscription to a data set in a YANG model. The subscribed data set is streamed out to the destination at configured intervals. Additionally, Cisco IOS XE enables the push model, which provides near-real-time monitoring of the network, leading to quick detection and rectification of failures.
- **Seamless software upgrades and patching:** To enhance OS resilience, Cisco IOS XE supports patching, which provides fixes for critical bugs and security vulnerabilities between regular maintenance releases. This support allows customers to add patches without having to wait for the next maintenance release.

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Always on

- **High availability:** Stateful switchover with a 1:1 active standby and N+1 redundancy keeps your network, services, and clients always on, even in unplanned events.
- **Software Maintenance Upgrades (SMUs) with hot and cold patching:** Patching allows for a patch to be installed as a bug fix without bringing down the entire network and eliminates the need to requalify an entire software image. The SMU is a package that can be installed on a system to provide a patch fix or security resolution to a released image. SMUs allow you to address the network issue quickly while reducing the time and scope of the testing required. The Cisco IOS XE platform internally validates the SMU compatibility and does not allow you to install incompatible SMUs. All SMUs are integrated into the subsequent Cisco IOS XE Software maintenance releases.
- **Intelligent rolling access point upgrades and seamless multisite upgrades:** The Cisco Catalyst 9800-40 Wireless Controller comes equipped with intelligent rolling access point upgrades to simplify network operations. Multisite upgrades can now be done in stages, and access points can be upgraded intelligently without restarting the entire network.
- Standby monitoring of Cisco Catalyst 9800 Wireless Controllers in high-availability mode enables monitoring the health of the system on a standby controller in a high-availability pair using programmatic interfaces (NETCONF/YANG, RESTCONF) and CLIs without going through the active controller. For more details refer to the technical documentation.
- In-Service Software Upgrade (ISSU): ISSU is a complete image upgrade/update with zero downtime while the network is still on. The software image or a patch is pushed onto the wireless controller while traffic forwarding continues uninterrupted. All access point and client sessions are retained during the upgrade process.

  With just a click, your network automatically upgrades to the newest software. Your backup 9800 controller receives the new software that is pushed via the active 9800 controller. The backup 9800 controller becomes active and takes over your network, while your previously active 9800 turns into a backup 9800 controller and processes the software upgrade. Using an intelligent RF-based rolling access point upgrade, all access points are upgraded in a staggered fashion without impacting any wireless session. This procedure is carried out without any manual intervention natively from the controller and without the need for an external orchestrator or additional licenses.

Security

- **Encrypted Traffic Analytics (ETA):** ETA is a unique capability for identifying malware in encrypted traffic coming from the access layer. Since more and more traffic is being encrypted, the visibility this feature provides related to threat detection is critical for keeping your network secure at different layers.
- **Trustworthy systems:** Cisco Trust Anchor Technologies provide a highly secure foundation for Cisco products. With the Cisco Catalyst 9800-40, these trustworthy systems help assure hardware and software authenticity for supply chain trust and strong mitigation against man-in-the-middle attacks on software and firmware. Trust Anchor capabilities include:
  - **Image signing:** Cryptographically signed images provide assurance that the firmware, BIOS, and other software are authentic and unmodified. As the system boots, its software signatures are checked for integrity.
  - **Secure Boot:** Cisco Secure Boot technology anchors the boot sequence chain of trust to immutable hardware, mitigating threats against a system's foundational state and the software that is to be

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loaded, regardless of a user's privilege level. It provides layered protection against the persistence of illicitly modified firmware.

- **Cisco Trust Anchor module:** A tamper-resistant, strong cryptographic, single-chip solution uniquely identifies the product so that its origin can be confirmed to Cisco, providing assurance that the product is genuine.
- **Cisco Wireless Intrusion Prevention System (WIPS):** WIPS offers advanced network security to detect, locate, mitigate, and contain any intrusion or threat on your wireless network. It can monitor and detect wireless network anomalies, unauthorized access, and RF attacks. A new, dedicated classification engine for rogues and aWIPS is built on Cisco DNA Center. A fully integrated stack for the WIPS solution includes Cisco DNA Center, a Cisco Catalyst 9800 controller, Wave 2, and Cisco Catalyst 9100 Access Point. This new architecture provides improved detection and security, simplicity, and ease of use, and reduced false positive alarms.

Flexible NetFlow

- **Flexible NetFlow (FNF):** Cisco IOS FNF is the next generation in flow visibility technology, allowing optimization of the network infrastructure, reducing operating costs, and improving capacity planning and security incident detection with increased flexibility and scalability.

Application visibility and control

- **Next-Generation Network-Based Application Recognition (NBAR2):** NBAR2 enables advanced application classification techniques, with up to 1400 predefined and well-known application signatures and up to 150 encrypted applications on the Cisco Catalyst 9800-40. Some of the most popular applications included are Skype, Office 365, Microsoft Lync, Cisco Webex, and Facebook. Many others are already predefined and easy to configure. NBAR2 provides the network administrator with an important tool to identify, control, and monitor end-user application usage while helping ensure a quality user experience and securing the network from malicious attacks. It uses FNF to report application performance and activities within the network to any supported NetFlow collector, such as Cisco Prime, Stealthwatch, or any compliant third-party tool.

Quality of service

- **Superior Quality of Service (QoS):** QoS technologies are tools and techniques for managing network resources and are considered the key enabling technologies for the transparent convergence of voice, video, and data networks. QoS on the Cisco Catalyst 9800-40 consists of classification of traffic based on packet data as well as application recognition and traffic control actions such as drop, marking and policing. A modular QoS command-line framework provides consistent platform-independent and flexible configuration behavior. The 9800-40 also supports policies at two levels of target: BSSID as well as client. Policy assignment can be granular down to the client level.

Smart operation

- **Bluetooth ready:** The Cisco Catalyst 9800-40 has hardware support to connect a Bluetooth dongle to the controller, enabling you to use this wireless interface as a management port. This port functions as an IP management interface and can be used for configuration and troubleshooting using WebUI or the Command-Line Interface (CLI), and to transfer images and configurations.

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- **WebUI:** WebUI is an embedded GUI-based device-management tool that provides the ability to provision the device, simplify device deployment and manageability, and enhance the user experience. WebUI comes with the default image. There is no need to enable anything or install any license on the device. You can use WebUI to build a day-0 and day-1 configuration and from then on monitor and troubleshoot the device without having to know how to use the CLI.

Specifications

Table 9. Specifications

Item	Specification	
Wireless standards	IEEE 802.11a, 802.11b, 802.11g, 802.11d, WMM/802.11e, 802.11h, 802.11n, 802.11k, 802.11r, 802.11u, 802.11w, 802.11ac Wave1 and Wave2, 802.11ax	
Wired, switching, and routing standards	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, 1000BASE-T. 1000BASE-SX, 1000-BASE-LH, IEEE 802.1Q VLAN tagging, 802.1AX Link Aggregation	
Data standards	• RFC 768 User Datagram Protocol (UDP) • RFC 791 IP • RFC 2460 IPv6 • RFC 792 Internet Control Message Protocol (ICMP) • RFC 793 TCP • RFC 826 Address Resolution Protocol (ARP) • RFC 1122 Requirements for Internet Hosts • RFC 1519 Classless Interdomain Routing (CIDR) • RFC 1542 Bootstrap Protocol (BOOTP) • RFC 2131 Dynamic Host Configuration Protocol (DHCP) • RFC 5415 Control and Provisioning of Wireless Access Points (CAPWAP) Protocol • RFC 5416 CAPWAP Binding for 802.11	
Security standards	• Wi-Fi Protected Access (WPA) • IEEE 802.11i (WPA2, RSN) • Wi-Fi Protected Access 3 (WPA3) • RFC 1321 MD5 Message-Digest Algorithm • RFC 1851 Encapsulating Security Payload (ESP) Triple DES (3DES) Transform • RFC 2104 HMAC: Keyed-Hashing for Message Authentication • RFC 2246 TLS Protocol Version 1.0 • RFC 2401 Security Architecture for the Internet Protocol • RFC 2403 HMAC-MD5-96 within ESP and AH • RFC 2404 HMAC-SHA-1-96 within ESP and AH • RFC 2405 ESP DES-CBC Cipher Algorithm with Explicit IV • RFC 2407 Interpretation for Internet Security Association Key Management Protocol (ISAKMP) • RFC 2408 ISAKMP • RFC 2409 Internet Key Exchange (IKE) • RFC 2451 ESP CBC-Mode Cipher Algorithms • RFC 3280 Internet X.509 Public Key Infrastructure (PKI) Certificate and Certificate Revocation List (CRL) Profile	

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Item	Specification	
	• RFC 4347 Datagram Transport Layer Security (DTLS) • RFC 5246 TLS Protocol Version 1.2	
Encryption standards	• Static Wired Equivalent Privacy (WEP) RC4 40, 104 and 128 bits • Advanced Encryption Standard (AES): Cipher Block Chaining (CBC), Counter with CBC-MAC (CCM), Counter with CBC Message Authentication Code Protocol (CCMP) • Data Encryption Standard (DES): DES-CBC, 3DES • Secure Sockets Layer (SSL) and Transport Layer Security (TLS): RC4 128-bit and RSA 1024- and 2048-bit • DTLS: AES-CBC • IPsec: DES-CBC, 3DES, AES-CBC • 802.1AE MACsec encryption	
Authentication, Authorization, and Accounting (AAA) standards	• IEEE 802.1X • RFC 2548 Microsoft Vendor-Specific RADIUS Attributes • RFC 2716 Point-to-Point Protocol (PPP) Extensible Authentication Protocol (EAP)-TLS • RFC 2865 RADIUS Authentication • RFC 2866 RADIUS Accounting • RFC 2867 RADIUS Tunnel Accounting • RFC 2869 RADIUS Extensions • RFC 3576 Dynamic Authorization Extensions to RADIUS • RFC 5176 Dynamic Authorization Extensions to RADIUS • RFC 3579 RADIUS Support for EAP • RFC 3580 IEEE 802.1X RADIUS Guidelines • RFC 3748 Extensible Authentication Protocol (EAP) • Web-based authentication • TACACS support for management users	
Management standards	• Simple Network Management Protocol (SNMP) v1, v2c, v3 • RFC 854 Telnet • RFC 1155 Management Information for TCP/IP-based Internets • RFC 1156 MIB • RFC 1157 SNMP • RFC 1213 SNMP MIB II • RFC 1350 Trivial File Transfer Protocol (TFTP) • RFC 1643 Ethernet MIB • RFC 2030 Simple Network Time Protocol (SNTP) • RFC 2616 HTTP • RFC 2665 Ethernet-Like Interface Types MIB • RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions • RFC 2819 Remote Monitoring (RMON) MIB • RFC 2863 Interfaces Group MIB • RFC 3164 Syslog • RFC 3414 User-Based Security Model (USM) for SNMPv3 • RFC 3418 MIB for SNMP • RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs	

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Item	Specification	
	• RFC 4741 Base NETCONF protocol • RFC 4742 NETCONF over SSH • RFC 6241 NETCONF • RFC 6242 NETCONF over SSH • RFC 5277 NETCONF event notifications • RFC 5717 Partial Lock Remote Procedure Call • RFC 6243 With-Defaults capability for NETCONF • RFC 6020 YANG • Cisco private MIBs	
Management interfaces	• Web-based: HTTP/HTTPS • Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port • SNMP • NETCONF	
Hard disk drives (HDD)	• SATA solid-state drive (SSD) • 240 GB of memory	
Environmental conditions supported	Operating temperature: • Normal: 0° to 40°C (32° to 104°F) • Short term:0° to 50°C (32° to 122°F) Nonoperating temperature: • -40°to 65°C (-104° to 149°F) Operating humidity: • Nominal: 10% to 90% noncondensing • Short term: 5% to 90% noncondensing Nonoperating temperature humidity: • 5% to 93% at 82°F (28°C) Operating altitude: • Appliance operating: 0 to 3000 m (0 to 10,000 ft) • Appliance nonoperating: 0 to 12,192 m (0 to 40,000 ft) Electrical input: • AC input frequency range: 47 to 63 Hz • AC input range: 90 to 264 VAC with AC PEM • 1100W AC with optional redundant power supply (hot-swappable) Maximum power: 381W Heat dissipation: 1300 BTU/hr Sound power level measure: • A-weighted sound power level is 74.1 LpAm (dBA) @ 27C nominal operation	

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Item	Specification	
Regulatory compliance	Safety: • UL/CSA 60950-1 • IEC/EN 60950-1 • AS/NZS 60950.1 • CAN/CSA-C22.2 No. 60950-1	
	EMC – Emissions: • FCC 47CFR15 • AS/NZS CISPR 22 • CISPR 22 • EN55022/EN55032 (EMI-1) • ICES-003 • VCCI • KN 32 (EMI-2) • CNS-13438	**Class A**
	EMC – Emissions: • EN61000-3-2 Power Line Harmonics (EMI-3) • EN61000-3-3 Voltage Changes, Fluctuations, and Flicker (EMI-3)	
	EMC – Immunity: • IEC/EN61000-4-2 Electrostatic Discharge Immunity • IEC/EN61000-4-3 Radiated Immunity • IEC/EN61000-4-4 EFT-B Immunity (AC Power Leads) • IEC/EN61000-4-4 EFT-B Immunity (DC Power Leads) • IEC/EN61000-4-4 EFT-B Immunity (Signal Leads) • IEC/EN61000-4-5 Surge AC Port • IEC/EN61000-4-5 Surge DC Port • IEC/EN61000-4-5 Surge Signal Port • IEC/EN61000-4-6 Immunity to Conducted Disturbances • IEC/EN61000-4-8 Power Frequency Magnetic Field Immunity • IEC/EN61000-4-11 Voltage Dips, Short Interruptions, and Voltage Variations • K35 (EMI-2)	
	EMC (ETSI/EN) • EN 300 386 Telecommunications Network Equipment (EMC) (EMC-3) • EN55022 Information Technology Equipment (Emissions) • EN55024/CISPR 24 Information Technology Equipment (Immunity) • EN50082-1/EN61000-6-1 Generic Immunity Standard (EMC-4)	

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Software requirements

The Cisco Catalyst 9800-40 runs on Cisco IOS XE Software version 16.10.1 or later. This software release includes all the features listed earlier in the Platform Benefits section.

Table 10. Minimum software requirements

Model	Description	Minimum software requirement
C9800-40-K9	Cisco Catalyst 9800-40 Wireless Controller	Cisco IOS XE Software Release 16.10.1

Licensing

No licenses are required to boot up a **Cisco Catalyst 9800 Series Wireless Controller**. However, in order to connect any access points to the **controller**, Cisco DNA software subscriptions are required. To be entitled to connecting to a 9800 Series controller, each access point requires a Cisco DNA subscription license.

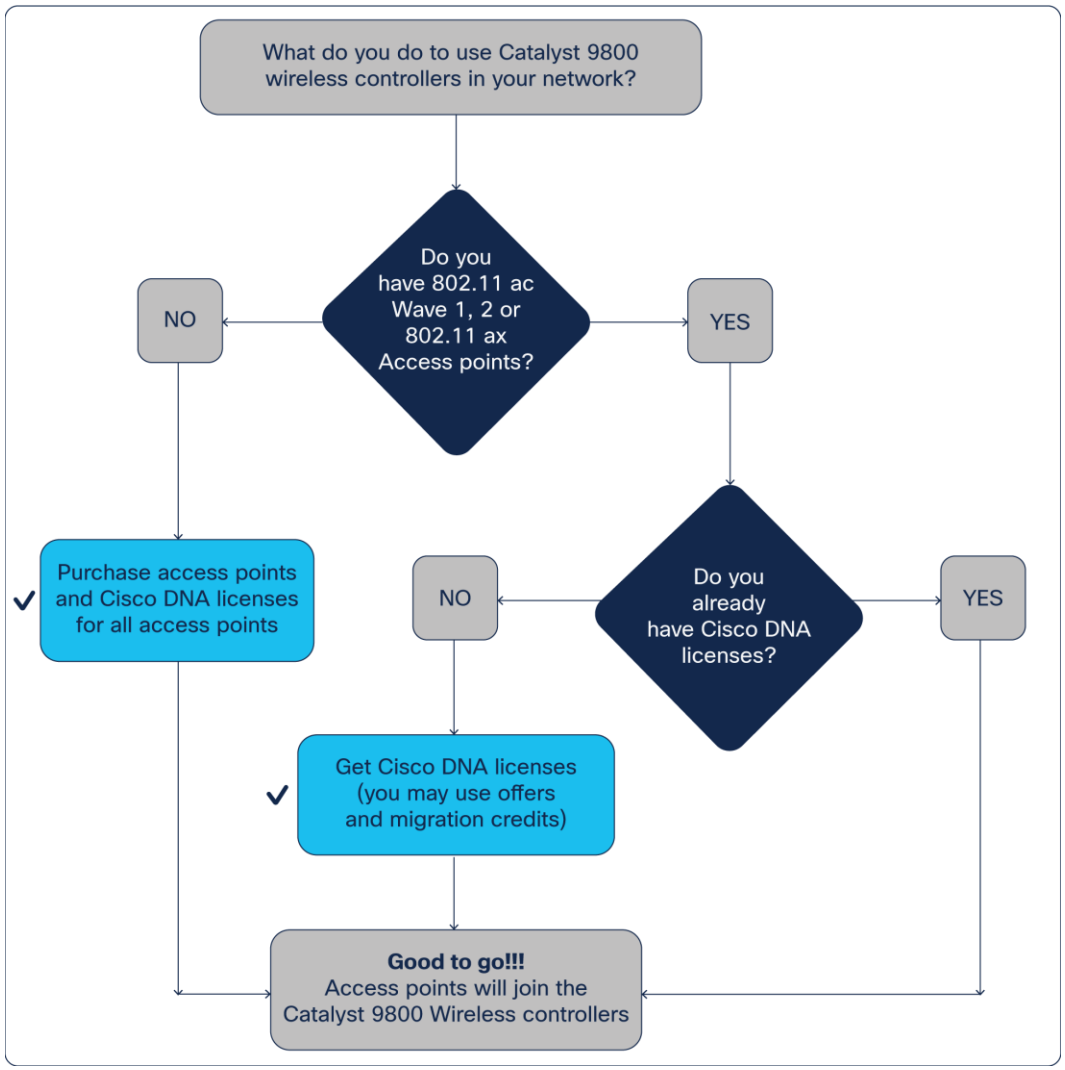


Figure 6.
Determining license requirements for access points connecting to Cisco Catalyst 9800 Series Wireless Controllers

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The access points connecting to the Cisco Catalyst 9800 Series have new and simplified software subscription packages.

They can support both tiers of Cisco DNA software: Cisco DNA Essentials and Cisco DNA Advantage.

Cisco DNA software subscriptions provide Cisco innovations on the access point. They also include perpetual Network Essentials and Network Advantage licensing options, which cover wireless fundamentals such as 802.1X authentication, QoS and PnP; telemetry and visibility; and single sign-on, as well as security controls.

Cisco DNA subscription software has to be purchased for a 3-, 5-, or 7-year subscription term. Upon expiry of the subscription, the Cisco DNA features will expire, whereas the Network Essentials and Network Advantage features will remain.

For the full feature list of Cisco DNA Software, including the perpetual Network Essentials and Network Advantage, please see the feature matrix: https://www.cisco.com/c/m/en_us/products/software/dna-subscription-wireless/en-sw-sub-matrix-wireless.html?oid=porew018984.

Two modes of licensing are available:

- Cisco Smart Licensing is a flexible licensing model that provides you with an easier, faster, and more convenient way to purchase and manage software across the Cisco portfolio and across your organization. And it's secure- you control what users can access. With Smart Licensing you get:
  - Easy Activation: Smart licensing establishes a pool of software licenses that can be used across the entire organization-no more PAKs (Product Activation Keys).
  - Unified Management: Cisco License Central (CLC) provides a complete view into all of your Cisco Products and services in an easy-to-use portal, so you always know what you have and what you are using.
  - License Flexibility: Your software is not node-locked to your hardware, so you can easily use and tranfer licenses as needed.

  To use Smart Licensing, you must first set up a Smart Account on Cisco License Central.

  For a more detailed overview on Cisco Licensing, visit the Licensing Hub.
- Specific License Reservation (SLR) is a feature used in highly secure networks. It provides a method for customers to deploy a software license on a device (product instance) without communicating usage information to Cisco. There is no communication with Cisco or a satellite. The licenses are reserved for every controller. It is node-based licensing.

Four levels of license are supported on the **Cisco Catalyst 9800 Series Wireless Controllers**. The controllers can be configured to function at any one of the four levels.

- Cisco DNA Essentials: At this level the Cisco DNA Essentials feature set will be supported.
- Cisco DNA Advantage: At this level the Cisco DNA Advantage feature set will be supported.
- NE: At this level the Network Essentials feature set will be supported. This is available with Cisco DNA Essentials.
- NA: At this level the Network Advantage feature set will be supported. This is available with Cisco DNA Advantage.

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For customers who purchase Cisco DNA Essentials, Network Essentials will be supported and will continue to function even after term expiration. And for customers who purchase Cisco DNA Advantage, Network Advantage will be supported and will continue to function even after term expiration.

Initial bootup of the controller will be at the Cisco DNA Advantage level.

For questions, contact the Cisco Catalyst 9800 Series Wireless Controllers Licensing mailer group at ask-catalyst 9800 licensing.

Managing licenses with Smart Accounts

Creating Smart Accounts by using the Cisco Smart Software Manager (SSM) enables you to order devices and licensing packages and also manage your software licenses from a centralized website. You can set up the Smart Account to receive daily email alerts and to be notified of expiring add-on licenses that you want to renew. A Smart Account is mandatory for the Cisco Catalyst 9800 Series. For more information on Smart Account refer to https://www.cisco.com/go/smartaccounts.

Warranty

Find warranty information on Cisco.com at the Product Warranties page.

Cisco 1-year limited hardware warranty terms

The following are terms applicable to your hardware warranty. Your embedded software is subject to the Cisco EULA (link available below) and/or any SEULA or specific software warranty terms for additional software products loaded on the device.

Duration of hardware warranty: One (1) year

Replacement, repair, or refund procedure for hardware: Cisco or its service center will use commercially reasonable efforts to ship a replacement part within ten (10) working days after receipt of the Return Materials Authorization (RMA) request. Actual delivery times may vary depending on customer location.

Cisco reserves the right to refund the purchase price as its exclusive warranty remedy.

Cisco environmental sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of Cisco's Corporate Social Responsibility (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in the following table:

Table 11. Links to sustainability information

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance
Sustainability inquiries	Contact: csr_inquiries@cisco.com

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Ordering information

Table 12. Ordering information

Type	Product ID	Description
Controller	C9800-40-K9	Cisco Catalyst 9800-40 Wireless Controller
	LIC-C9800-DTLS-K9	Cisco Catalyst 9800 Series Wireless Controller DTLS License
Accessories, spares	C9800-AC-750W R=	Cisco Catalyst 9800-40 750W AC Power Supply Reverse Air

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Document history

New or Revised Topic	Described In	Date
Cisco DNA Spaces name change	Updated product name to Cisco Spaces	10/21/22

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Asia Pacific Headquarters
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