Cisco Catalyst 9800 Series Wireless Controller

Overview

What are Cisco Catalyst 9800 Wireless Controllers?

Cisco Catalyst® 9800 Series Wireless Controllers are the next generation of wireless controllers built from the ground-up for the Intent-based networking. The Catalyst 9800 Series Controllers are IOS XE-based and integrates the RF Excellence from Aironet with Intent-based Networking capabilities of IOS XE to create the best-in-class wireless experience for your evolving and growing organization.

The Catalyst 9800 Wireless Controllers are feature-rich and enterprise-ready to power your business critical operations and transform end-customer experiences:

1. High availability and seamless software updates, enabled by hot and cold patching, keep your clients and services always-on in planned and unplanned events.

2. Secure air, devices and users with Catalyst 9800 Series. Wireless infrastructure becomes the strongest first line of defense with Encrypted Traffic Analytics and SD-Access. The controllers come with built-in security: secure boot, runtime defenses, image signing, integrity verification and hardware authenticity.

3. Deploy anywhere to enable wireless connectivity everywhere. Whether on-prem, in public/private cloud or embedded on a switch - Catalyst 9800 has multiple deployment and scale options to best meet your organization’s needs.

4. Built on a modular operating system, open and programmable APIs enable Automation of your Day 0-N network operations. Model-drive streaming telemetry provides deep insights into your network and client health.

Catalyst 9800 Series Wireless Controllers are available in multiple form factors to enrich customer’s deployment options:

• Catalyst 9800 Series Wireless Controller Appliance
• Catalyst 9800-L
• Catalyst 9800-40
• Catalyst 9800-80
• Catalyst 9800 Series Wireless Controller for Cloud
• Cisco Embedded Wireless Controller on Catalyst 9100 Access Point
• Catalyst 9800 Embedded Wireless on Switch

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Catalyst 9800 Wireless Controller product portfolio and positioning

What is Cisco Catalyst 9800 Series Wireless Controller Appliance?

The Cisco Catalyst® 9800 Series Wireless Controller Appliances are the addition to Cisco Catalyst access product family. The new wireless controller appliances are purpose-built for intent-based networks powered by fully programmable multi-core network processors. They offer high scale, performance, and resiliency to address deployment, starting from the medium-size campus to large enterprises and service providers.

Built with an agile Cisco IOS® XE operating system, the Cisco Catalyst 9800 Series Appliance are industry-leading, secure wireless controllers that are always on and can be deployed anywhere.

Catalyst 9800 Series Wireless Controller Appliance comes with three form factors:

- Cisco Catalyst 9800-L Wireless Controller – a compact controller appliance that is the perfect complement to the small to medium-sized network deployment. Data ports can operate in 1GE and 10 GE mode supporting different SFP/SFP+ transceivers and up to 5 Gbps of throughput.

- Cisco Catalyst 9800-40 Wireless Controller – Fixed wireless controller with seamless software updates. Data ports can operate in 1GE and 10 GE mode supporting different SFP/SFP+ transceivers and up to 40 Gbps of throughput.

- Cisco Catalyst 9800-80 Wireless Controller – Modular wireless controller with 100GE modular uplink and seamless software updates. Fixed data ports can operate in 1 GE and 10 GE mode supporting different SFP/SP+ transceivers and up to 80 Gbps of throughput. Modular Uplink provide flexible connectivity options supporting 10GE, 40GE, 100GE QSFP hot-swap transceivers.

Seamless software updates include Software Maintenance Update (SMU) for Hot and Cold patching on wireless controllers, AP Service Pack for maintenance update on access points, AP Device Pack for introduction of new AP hardware into the network and Intelligent Rolling AP Upgrade for hitless controller and access point upgrade.
What is Cisco Catalyst 9800 Series Wireless Controller for Cloud?

The Cisco Catalyst® 9800 Series Wireless Controller for Cloud (C9800-CL) are an addition to Cisco Catalyst access product family. The next generation virtual wireless controller are purpose-built for intent-based networks powered by Cisco IOS® XE operating system, which supports model-driven programmability and streaming telemetry. They offer high scale, performance, and resiliency to address deployment, starting from distributed branches, medium-size campus to large enterprises and service providers.

Built with an agile Cisco IOS® XE operating system, the Cisco Catalyst 9800 Series Wireless Controller for cloud are industry-leading, secure wireless controllers that are always on and can be deployed anywhere.

Catalyst 9800 Series Wireless Controllers for cloud is available to deploy in:

- Private Cloud – Wireless controller for private cloud with seamless software updates runs same Cisco IOS® XE operating system which is running on other catalyst wireless platforms, enabling customers to deploy a virtual wireless controller inside their private data center on hypervisors like VMware ESXi, open-source KVM and Cisco ENCS.

- Public Cloud – Wireless controller for public cloud with seamless software updates runs same Cisco IOS® XE operating system which is running on other catalyst wireless platforms, enabling customers to deploy and fully manage a virtual wireless controller available on Amazon Web Services (AWS) Marketplace and Google Cloud (GCP) Marketplace.

Seamless software updates include Software Maintenance Update (SMU) for Hot and Cold patching on wireless controllers, AP Service Pack for maintenance update on access points, AP Device Pack for introduction of new AP hardware into the network and Intelligent Rolling AP Upgrade for hitless controller and access point upgrade.

What is Cisco Catalyst 9800 Embedded Wireless on Switch?

The Cisco Catalyst® 9800 Embedded Wireless Controller on switch is the addition of catalyst wireless software to Cisco Catalyst access product family. The new wireless controller software package is purpose-built for intent-based networks powered by Cisco IOS® XE operating system, which supports model-driven programmability and streaming telemetry.

Catalyst 9800 embedded wireless is software package which will provide customers the flexibility to enable wireless on Catalyst switching platforms with seamless software upgrade. The software sub-package is built on same Cisco IOS® XE operating system which is running on other catalyst wireless platform. The only deployment mode supported is SD-Access (SDA).

Seamless software updates include Software Maintenance Update (SMU) for Hot and Cold patching on wireless controllers, AP Service Pack for maintenance update on access points, AP Device Pack for introduction of new AP hardware into the network and Intelligent Rolling AP Upgrade for hitless controller and access point upgrade.

What is the relative positioning among the Cisco Catalyst 9800 Series Wireless Controllers?

The Cisco Catalyst 9800 Series Wireless Controllers are industry-leading, secure wireless controllers that are always on and can be deployed anywhere. They offer high performance, and resiliency to address deployment for different scale, starting from distributed branches, small and medium-size campus to large enterprises.

<table>
<thead>
<tr>
<th>Platform</th>
<th>Positioning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalyst 9800-L</td>
<td>Lead physical controller for small to medium-size campus</td>
</tr>
<tr>
<td>Catalyst 9800-40</td>
<td>Lead physical controller for medium-size campus</td>
</tr>
<tr>
<td>Catalyst 9800-80</td>
<td>Lead physical controller for large-size enterprises and service providers</td>
</tr>
<tr>
<td>Catalyst 9800 for Private Cloud</td>
<td>Lead virtual controller for small, medium and large campuses</td>
</tr>
<tr>
<td>Catalyst 9800 for Public Cloud</td>
<td>Virtual controller for small-size distributed branches</td>
</tr>
<tr>
<td>Catalyst 9800 Embedded Wireless</td>
<td>Wireless controller for distributed branch SDA deployment</td>
</tr>
</tbody>
</table>
**FAQ**

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**What is the portfolio transition from the Aironet Wireless Controller to the Cisco Catalyst 9800 Wireless Controller?**

The Cisco Catalyst 9800 Series Wireless Controllers are industry-leading, secure wireless controllers that are always on and can be deployed anywhere.

<table>
<thead>
<tr>
<th>Current Aironet Wireless Controllers</th>
<th>Transition to Cisco Catalyst 9800 Wireless Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual Wireless Controller</td>
<td>Catalyst 9800 for Private and Public Cloud</td>
</tr>
<tr>
<td>2504, 3504 Wireless Controller</td>
<td>Catalyst 9800-L, Catalyst 9800 for Private and Public Cloud, Catalyst 9800 Embedded Wireless for SDA deployment</td>
</tr>
<tr>
<td>5508, 5520 Wireless Controller</td>
<td>Catalyst 9800-40, Catalyst 9800 for Private and Public Cloud</td>
</tr>
<tr>
<td>7510, 8510, 8540 Wireless Controller</td>
<td>Catalyst 9800-80, Catalyst 9800 for Private Cloud</td>
</tr>
</tbody>
</table>

**Catalyst 9800 Series Wireless Controller Appliance**

**What is Cisco Catalyst 9800 Series Wireless Controller Appliance?**

Cisco Catalyst 9800 series wireless controllers are the addition to Cisco Catalyst Access Product Family. Catalyst 9800 series controllers are purpose built for intent based networks powered by fully programmable multi-core network processors offering high scale, performance and resiliency to address deployment starting from medium-size campus to large enterprise and service providers.

Built with modular Cisco® IOS-XE operating system, the Cisco Catalyst 9800 Series Wireless Controllers are the most secure controllers that are always-on and can be deployed anywhere.

Cisco Catalyst 9800 series wireless controllers consists of three controllers:

- Cisco Catalyst 9800-L Wireless Controller
- Cisco Catalyst 9800-40 Wireless Controller
- Cisco Catalyst 9800-80 Wireless Controller

**What deployment modes are supported on Catalyst 9800 Series Wireless Controllers Appliance?**

Catalyst 9800 Series Wireless Controller appliance support all deployment modes which include Centralize Wireless, FlexConnect and Fabric.

**What is the scale and performance of the Catalyst 9800 Series Wireless Controllers Appliance?**

<table>
<thead>
<tr>
<th>Product</th>
<th>Number of access points</th>
<th>Number of clients</th>
<th>Throughput</th>
</tr>
</thead>
<tbody>
<tr>
<td>9800-L</td>
<td>250</td>
<td>5000</td>
<td>Up to 5 Gbps</td>
</tr>
<tr>
<td>9800-40</td>
<td>2,000</td>
<td>32,000</td>
<td>Up to 40 Gbps</td>
</tr>
<tr>
<td>9800-80</td>
<td>6,000</td>
<td>64,000</td>
<td>Up to 80 Gbps</td>
</tr>
</tbody>
</table>

**What Access Point (AP) models are supported with Catalyst 9800 Series Wireless Controllers Appliance?**

The Catalyst 9800 Wireless Controller Appliance will support all Wave 1 and Wave 2 Cisco Access Points, as well as future 802.11ax access points. Note, there is no support for 802.11n, a, b, and g access points.

**What AP modes are supported with Catalyst 9800 Series Wireless Controllers Appliance?**

Catalyst 9800 Series Wireless Controller Appliance support Cisco Access Points in Local Mode—Centralized and SDA deployment, FlexConnect Mode, Bridge and Flex+Bridge modes.

**Can existing AirOS wireless controller co-exist with Catalyst 9800 Series Wireless Controllers?**

Yes, AirOS wireless controller can co-exist with Catalyst 9800 Series Wireless Controller. IRCM is supported with AireOS 8.5 MR3 (special), AireOS 8.5 MR4 (special), and AireOS 8.8 MR2 release.
**What are the 9800-L SKUs/PIDs?**

Table 2 outlines the SKU numbers, along with product descriptions and details.

<table>
<thead>
<tr>
<th>SKU/PID</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>C9800-L-F-K9</td>
<td>Cisco Catalyst 9800-L Wireless Controller Fiber uplink</td>
<td>Base and HA SKU (Fiber uplink)</td>
</tr>
<tr>
<td>C9800-L-C-K9</td>
<td>Cisco Catalyst 9800-L Wireless Controller Copper uplink/Base and HA SKU</td>
<td>Base and HA SKU (Copper)</td>
</tr>
<tr>
<td>C9800-L-F-CA-K9</td>
<td>Cisco 9800-L Wireless Controller Fiber Service</td>
<td>Service 9800-L (Fiber)</td>
</tr>
<tr>
<td>C9800-L-C-CA-K9</td>
<td>Cisco 9800-L Wireless Controller Copper Service</td>
<td>Service 9800-L (Copper)</td>
</tr>
<tr>
<td>LIC-9800-DTLS-K9</td>
<td>Cisco 9800 Wireless Controller DTLS license</td>
<td>Optional DTLS license</td>
</tr>
<tr>
<td>C9800-AC-110W</td>
<td>Cisco Catalyst 9800-L Wireless Controller Power Supply</td>
<td>9800-L PSU</td>
</tr>
<tr>
<td>C9800-AC-110W=</td>
<td>Cisco Catalyst 9800-L Wireless Controller Power Supply 110W AC PSU</td>
<td>9800-L 110W AC PSU</td>
</tr>
<tr>
<td>C9800L-RMNT</td>
<td>Cisco 9800 Wireless Controller Rack Mount Tray</td>
<td>9800 Rack mount tray</td>
</tr>
<tr>
<td>C9800L-RMNT=</td>
<td>Spare Cisco 9800 Wireless Controller Rack Mount Tray</td>
<td>Spare 9800 Rack mount tray</td>
</tr>
</tbody>
</table>

**What are the 9800-40 SKUs/PIDs?**

Table 3 outlines the SKU numbers, along with product descriptions and details.

<table>
<thead>
<tr>
<th>SKU/PID</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>C9800-40-K9</td>
<td>Cisco Catalyst 9800-40 Wireless Controller</td>
<td>Base and HA SKU</td>
</tr>
<tr>
<td>C9800-40-CA-K9</td>
<td>Cisco Catalyst 9800-40 Wireless Controller (service only)</td>
<td>Service SKU for customer sale</td>
</tr>
<tr>
<td>LIC-C9800-DTLS-K9</td>
<td>Cisco 9800 Wireless Controller DTLS license</td>
<td>Optional DTLS license</td>
</tr>
<tr>
<td>C9800-AC-750W-R</td>
<td>Cisco Catalyst 9800-40 AC power supply reverse air</td>
<td>Default power supply</td>
</tr>
<tr>
<td>C9800-AC-750W-R=</td>
<td>Cisco Catalyst 9800-40 750W AC power supply reverse air (spare)</td>
<td>Spare power supply for RMA or to add a redundant power supply</td>
</tr>
</tbody>
</table>

**What are the 9800-80 SKUs/PIDs?**

Table 4 outlines the SKU numbers, along with product descriptions and details.

<table>
<thead>
<tr>
<th>SKU/PID</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>C9800-80-K9</td>
<td>Cisco Catalyst 9800-80 Wireless Controller</td>
<td>Base and HA SKU</td>
</tr>
<tr>
<td>C9800-80-CA-K9</td>
<td>Cisco Catalyst 9800-80 Wireless Controller (service only)</td>
<td>Service SKU for customer sale</td>
</tr>
<tr>
<td>LIC-C9800-DTLS-K9</td>
<td>Cisco 9800 Wireless Controller DTLS license</td>
<td>Optional DTLS license</td>
</tr>
<tr>
<td>C9800-AC-1100W</td>
<td>Cisco Catalyst Wireless Controller 1100 AC power supply</td>
<td>AC power supply</td>
</tr>
<tr>
<td>C9800-AC-1100W=</td>
<td>Cisco Catalyst Wireless Controller 1100 AC power Supply</td>
<td>Spare AC power supply</td>
</tr>
<tr>
<td>C9800-DC-950W</td>
<td>Cisco Catalyst Wireless Controller 950W DC power supply</td>
<td>DC power supply</td>
</tr>
<tr>
<td>C9800-DC-950W=</td>
<td>Cisco Catalyst Wireless Controller 950W DC power Supply</td>
<td>Spare DC power supply</td>
</tr>
<tr>
<td>C9800-18X1GE=</td>
<td>Cisco Catalyst 9800-80 GE Module</td>
<td>Optional modular GE uplink</td>
</tr>
<tr>
<td>C9800-10X10GE=</td>
<td>Cisco Catalyst 9800-80 10GE Module</td>
<td>Optional modular 10 GE uplink</td>
</tr>
<tr>
<td>C9800-1X40GE=</td>
<td>Cisco Catalyst 9800-80 1 Port 40G Module</td>
<td>Optional modular 1-port 40GE uplink</td>
</tr>
<tr>
<td>C9800-2X40GE(=)</td>
<td>Cisco Catalyst 9800-80 2 Port 40G Module</td>
<td>Optional modular 2-port 40GE uplink</td>
</tr>
<tr>
<td>C9800-1X100GE(=)</td>
<td>Cisco Catalyst 9800-80 1 Port 100G Module</td>
<td>Optional modular 1-port 100GE uplink</td>
</tr>
<tr>
<td>C9800-BLANK</td>
<td>Cisco 9800 Module Blank</td>
<td>Blank for module slot</td>
</tr>
</tbody>
</table>
FAQ
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What are HA SKUs for C9800-40 and C9800-80 Wireless Controllers?

For 9800-L wireless controller HA SKU (fiber uplink) is C9800-L-F-K9.
For 9800-L wireless controller HA SKU (copper uplink) is C9800-L-C-K9.
For 9800-40 wireless controller HA SKU is C9800-40-K9.
For 9800-80 wireless controller HA SKU is C9800-80-K9.

When is C9800-L wireless controller support copper or fiber uplinks?

There are two different versions of the Catalyst 9800-L controller, one will support a copper uplink and the other fiber uplinks.

What is the SKU number for redundant power supply for C9800-L Controller?

The SKU number for redundant power supply for C9800-L controller is C9800-AC-110W and C9800-AC-110W=.

What is the SKU number for redundant power supply for C9800-40 Controller?

The SKU number for redundant power supply for C9800-40 controller is C9800-AC-750W-R=.

What is the SKU number for redundant power supply for C9800-80 Controller?

C9800-80 wireless controllers by default ship with redundant power supplies, AC or DC based on power supply selection at the time of order placement.

What are the SFP/SFP+ optics supported with Catalyst 9800 Series Wireless Controller Appliances?

Supported SFP/SPF+ optics

- SFP-10G-SR
- SFP-10G-LR
- SFP-10G-ER
- GLC-EX-SMD
- GLC-SX-MMD
- GLC-LH-SMD
- GLC-ZXSMD
- GLC-TE
- SFP-10G-SR-X
- SFP-10G-LR-X
- DWDM-SFP10G-30.33=
- SFP-10G-AOC2M
- SFP-H10GB-ACU7M

How do I switch from 1G to 10G or 10G to 1G uplinks?

No special operation - replacement of SFP or SFP+ enabled 1G or 10G links.

Are Power supplies and modules hot swappable in Catalyst 9800 Series Wireless Controller Appliance?

Yes, power supplies and modules are hot swappable in Catalyst 9800 Series Wireless Controller Appliance.

Can C9800-40 and C9800-80 be deployed using two post rack mounts?

Yes, C9800-40 and C9800-80 can be deployed using two post rack mounts. The C9800-L will be only a one rack mount.

Is Cisco IOS XE Software pre-installed when shipping?

Yes. Will ship with 16.12 as default software version from factory.
**What is product warranty for C9800-L, C9800-40 and C9800-80 Wireless Controllers?**


**What is the maximum power drawn for C9800-L, C9800-40 and C9800-80 Wireless Controllers?**

- C9800-L draws 110W of power
- C9800-40 draws 381W of power
- C9800-80 with modules draws 600W of power

**What is the MTBF for C9800-L, C9800-40 and C9800-80 Wireless Controllers?**

- MTBF for C9800-L is 100,000 hours
- MTBF for C9800-40 is 123,450 hours
- MTBF for C9800-80 is 85,450 hours

**Can I configure C9800-40 to be HA/Standby Wireless Controller to C9800-80 Wireless Controller or vice-versa?**

- No, high availability is supported between same model of wireless controllers as active and standby.

**Is there a redundancy port in Catalyst 9800 Series Wireless Controller Appliances?**

- Yes, a separate Copper and Fiber RP port is available. Only one can be used at a same time for HA connectivity between active and standby wireless controllers.

**Are Catalyst 9800 Series Wireless Controller Appliance Wi-Fi certified?**

- Yes.

**Are Catalyst 9800 Series Wireless Controllers Appliance FIPS, CC, UCAPL certified?**

- No, It will be certified in a future software release.

**Does the customer replace the entire appliance for a power supply failure?**

- No, Power supply is field replaceable, no requirement to replace the appliance.

**Are the Uplink Modules in the C9800-80 field replaceable?**

- Yes, All the modules are field replaceable.

**When does the customer replace the entire appliance?**

- For any component failure except for the power supply and uplink modules, entire appliance should be replaced.
Catalyst 9800 Wireless Controller for Cloud

**What is Cisco Catalyst 9800 Wireless Controller for Cloud?**

The Cisco Catalyst 9800-CL Wireless Controller for Cloud (Catalyst 9800-CL) is the next generation of enterprise-class virtual wireless controllers built for high availability, and security. The Cisco Catalyst 9800-CL is based on an x86 CPU and runs a modern operating system, open Cisco IOS XE Software, which supports model-driven programmability, streaming telemetry, and patching. The Cisco Catalyst 9800-CL will provide customers the flexibility and complete customization in deployment modes and features richness in private and public clouds. Catalyst Wireless Controller for Cloud delivers high-speed, secure wireless services with differentiating features like zero-touch access-point provisioning, high availability, application visibility and control, and more. The Catalyst 9800-CL runs Cisco IOS XE Software, enabling customers to deploy a virtual wireless controller inside their private data center on hypervisors like VMware ESXi, open-source KVM, Cisco ENCS or in a public cloud on Amazon Web Services (AWS) with the same enterprise-class networking features and services that they currently have on their hardware-based appliance, all configured and monitored via standard programmable interfaces.

**What is the customer value proposition for the Cisco Catalyst 9800-CL Wireless Controller for Cloud?**

Work environments are transforming to digital workplaces. To provide an always-on network with the desired performance for high-density environments, enterprises must deliver a wireless network that accommodates digital workspace transformation requirements with the efficiency and flexibility of a Virtual-Machine (VM) deployment to move businesses at much higher speeds. The Cisco Catalyst 9800-CL is the next generation of enterprise-class virtual wireless controllers. It runs Cisco IOS XE Software and provide customers flexibility to deploy in private and public clouds. Benefits of the virtual version of the next-generation wireless controller include:

- **Agility** - Faster time to test, deploy, and roll out wireless network and services.
- **Scalability** - Option to scale up to 6000 access points and 64,000 wireless clients on a single virtual instance and can be quickly replicated, spawning multiple virtual instances to manage increasing demand of wireless network.
- **Global footprint** - Availability of the same virtual controller software in different regions for private and public clouds provide customers flexibility to deploy and manage the wireless network the way they want, much quickly and more efficiently.
- **Cost-effectiveness** - Customers who already have a VM environment in a private cloud or public cloud can benefit from operational cost-savings by deploying a virtual controller since it can reside with other VMs sharing existing virtualization infrastructure with no extra cost of hardware, power, and rack space.
- **Ease of operation** - Customers have the flexibility to deploy a next-generation virtual wireless controller as a VM, benefiting from ease of operation and deployment to remote locations. The VM form factor makes it easy to dynamically scale to support the needs of a rapidly growing enterprise, enabling a much more efficient use of resources by adding more CPU and storage resources. By moving to a VM-based deployment that has more memory and compute, more services can be managed on the network.

**What does “CL” stand for in Cisco Catalyst 9800-CL Wireless Controller?**

“CL” in Cisco Catalyst 9800-CL Wireless Controller stands for the cloud option within the new Cisco Catalyst 9800 Series Wireless Controllers. The Catalyst 9800-CL Wireless Controller is the next generation of enterprise-class virtual wireless controllers that runs Cisco IOS XE Software and provides customers flexibility to deploy in private and public clouds.
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Are there multiple Cisco IOS® XE Software images to install private and public cloud for different scale?

No, there will be single IOS® XE Software image which can be used to deploy Virtual Machine (VM) in private or public cloud for any scale. Customer can go to Cisco.com to download IOS® XE Software image for VMware ESXi, open source KVM and Cisco ENCS to deploy in private cloud and can also go to Amazon Market Place to deploy and manage wireless controller in public cloud.

What mechanisms support onboarding access points with the Cisco Catalyst 9800-CL Wireless Controller for Cloud?

For easy onboarding of access points, the customer can use the plug-n-play functionality of Cisco DNA Center for private cloud, or Cisco Cloud plug-n-play server for private and public cloud. The customer can also use any regular CAPWAP discovery methods, such as layer-3 CAPWAP discovery, locally stored wireless controller IPv4 or IPv6 address discovery, DHCP server discovery using option 43, DHCP server discovery using option 52, DNS discovery, and others to onboard Cisco access points on private and public cloud.

Which Cisco access points are supported with the Cisco Catalyst 9800-CL Wireless Controller?

All 802.11ac Wave 1 and Wave 2 indoor and outdoor Cisco Aironet access points are supported.

Is there a tool to migrate my existing AireOS Wireless Controller configuration to the Cisco IOS XE Software base Wireless Controller configuration?

Yes, there is an integrated tool in the WebUI of the Cisco Catalyst 9800-CL Wireless Controller that can help you migrate your existing AireOS Wireless Controller configuration. The same tool is also present in Cisco Prime Infrastructure, and a standalone version is available on Cisco.com, which can help in migrating existing AireOS wireless controller configuration.

Is programmability supported on the Cisco Catalyst 9800-CL Wireless Controller?

Yes, the Cisco Catalyst 9800-CL Wireless Controller runs a modern operating system, the open Cisco IOS XE Software that supports model-driven programmability and streaming telemetry.

How many Cisco access points and wireless clients are supported for private cloud?

The Cisco Catalyst 9800-CL Wireless Controller is the next generation of enterprise-class virtual wireless controller that runs Cisco IOS XE Software and supports up-to 6000 access points and 64,000 wireless clients on single VM in a private cloud.

What are the different scale options supported by Catalyst 9800 Wireless Controller for a private cloud?

While installing VM in private cloud using a single Cisco IOS®XE Software image, the customer will have flexibility to choose different templates based on their wireless scale requirements. Three templates (small, medium, and large) are supported while installing VM. Based on the template selected, CPU and memory are allocated, which in turn will decide how many access points and clients can be supported.

- **Small template**: Up to 1000 access points and 10,000 wireless clients
- **Medium template**: Up to 3000 access points and 32,000 wireless clients
- **Large template**: Up to 6000 access points and 64,000 wireless clients for Flexconnect and SDA deployments

What is the maximum throughput supported in a private cloud?

The Catalyst 9800-CL, when deployed in a private cloud, supports up to 2.5 Gbps of throughput.
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**What deployment modes are supported for a private cloud?**

Catalyst 9800-CL when deployed in Private Cloud support Cisco Access Points in Local Mode – Centralized and SDA deployment, FlexConnect Mode, Bridge and Flex+Bridge modes.

**Will the private cloud support all the features supported on the appliance?**

Yes. The Catalyst 9800-CL, when deployed in a private cloud, will support all the features and deployment modes supported by the hardware appliance with 2.5 Gbps of throughput.

**Will a private cloud support high availability?**

Yes. The Catalyst 9800-CL, when deployed in a private cloud, will support high availability with access-point and client SSO between VMs residing on the same or different virtualization infrastructures.

**Can the Catalyst 9800-CL work as a guest anchor when deployed in private cloud?**

Yes. The Catalyst 9800-CL can be configured as a guest anchor wireless controller when deployed in a private cloud.

**What management capabilities are available for the Cisco Catalyst 9800-CL Wireless Controller when deployed in a private cloud?**

When deployed in a private cloud, the Catalyst 9800-CL can be managed using the onboard Cisco IOS XE Software Web User Interface (WebUI), using Cisco Prime® Infrastructure, Netconf/YANG, Cisco IOS software Command-Line Interface (CLI). The Catalyst 9800-CL Wireless Controller has been designed to work with Cisco DNA Center, using the Cisco DNA Center appliance.

**Can Cisco DNA Center manage the Cisco Catalyst 9800-CL Wireless Controller for automation and assurance?**

Yes, the Catalyst 9800-CL, when deployed in a private cloud, can be managed from Cisco DNA center for automation and assurance workflows.

**What hypervisor tools and functionality are supported for a private cloud?**

The Catalyst 9800-CL runs Cisco IOS XE Software and can be deployed as a VM inside the customer’s data center on hypervisors such as VMware ESXi, open-source KVM, and as Cisco NFVIS on a Cisco Enterprise Network Compute System (ENCS).

Table 5 lists the supported functionality on different VMware tools. Table 5. Supported functionality on VMware tools.

<table>
<thead>
<tr>
<th>VMware functionality</th>
<th>vMotion</th>
<th>vCenter</th>
<th>vSphere client</th>
</tr>
</thead>
<tbody>
<tr>
<td>VM snapshot</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>VM cloning</td>
<td>Yes</td>
<td>Yes</td>
<td>N/A</td>
</tr>
<tr>
<td>VM migration</td>
<td>Yes</td>
<td>Yes</td>
<td>N/A</td>
</tr>
<tr>
<td>VM high availability</td>
<td>Yes</td>
<td>Yes</td>
<td>N/A</td>
</tr>
<tr>
<td>VM backup and restore</td>
<td>Yes</td>
<td>Yes</td>
<td>N/A</td>
</tr>
</tbody>
</table>

NIC teaming is supported for VMware ESXi and open-source KVM hypervisors.

**What network adapters are supported for a private cloud?**

The Catalyst 9800-CL runs Cisco IOS XE Software and can be deployed as a VM inside a customer’s data center on hypervisors such as VMware ESXi, open-source KVM, and as Cisco NFVIS on Cisco Enterprise Network Compute System (ENCS).
Table 6 lists the supported network adapters for VMware ESXi and open-source KVM hypervisors.

### Table 6. Supported network adaptors

<table>
<thead>
<tr>
<th>Adaptor</th>
<th>VMware ESXi</th>
<th>Open-source KVM</th>
</tr>
</thead>
<tbody>
<tr>
<td>vNIC adaptors support</td>
<td>VMXNET3</td>
<td>VIRTIO</td>
</tr>
<tr>
<td></td>
<td>E1000E</td>
<td>E1000</td>
</tr>
</tbody>
</table>

**Can existing AirOS Wireless Controller co-exist with C9800-CL private Cloud?**

Yes. AirOS wireless controller can co-exist with C9800-CL private cloud. IRCM is supported with AireOS 8.5 MR3 (special), AireOS 8.5 MR4 (special), and AireOS 8.8 MR2 release.

**How many Cisco access points and wireless clients are supported for a public cloud?**

The Catalyst 9800-CL is the next generation of enterprise-class virtual wireless controllers that runs Cisco IOS XE Software and supports up to 1000 access points and 10,000 wireless clients on a single VM in a public cloud.

**What are the scale options of a Cisco Catalyst 9800 Wireless Controller for a public cloud?**

The Catalyst 9800-CL in a public cloud supports a single template, which will install resources on virtualization infrastructure to support up to 1000 access points and 10,000 wireless clients on single VM.

**What deployment modes are supported for a public cloud?**

The Catalyst 9800-CL supports Cisco access points in FlexConnect mode when deployed in a public cloud. It will also support FlexConnect central authentication and local switching deployment when the access points are configured in FlexConnect mode.

**What is the maximum throughput supported in a public cloud?**

Since C9800-CL-K9 when deployed in public cloud support FlexConnect Local switching deployment only there is no data traffic which goes to wireless controller.

**Will a public cloud support all the features supported with FlexConnect deployment?**

Yes. The Catalyst 9800-CL, when deployed in a public cloud, supports all the features supported for FlexConnect Central Authentication and local switching deployment.

**Will a public cloud support high availability?**

When deployed in a public cloud, the Catalyst 9800-CL supports FlexConnect local switching deployment only. There is no need to support access-point and client SSO in the public cloud. If for any reason a Cisco access point loses connectivity to the wireless controller, that Cisco access points moves to standalone mode and will be able to serve new and existing wireless clients with no network downtime.

**Is guest anchor supported in a public cloud?**

No, guest-anchor deployment is not supported when the Catalyst 9800-CL is deployed in a public cloud. For guest on-boarding, the WLAN can be configured with local web authentication or central web authentication and traffic will be switched locally from a Cisco access point to reach the guest portal.

**What management capabilities are available for the Catalyst 9800-CL Wireless Controller when deployed in a public cloud?**

When deployed in a public cloud, the Catalyst 9800-CL can be managed using the onboard Cisco IOS XE Software WebUI, Netconf/YANG, or Cisco IOS software CLI.
Is managed VPN mandatory to deploy the Cisco Catalyst 9800-CL Wireless Controller in a public cloud?
Yes, managed VPN is mandatory to deploy the Catalyst 9800-CL in a public cloud.

Can Cisco Cloud Services Router 1000V (CSR) be used to deploy managed VPN in a public cloud?
Yes. Cisco CSR can be used to deploy managed VPN when the Catalyst 9800-CL is deployed in a public cloud.

For public cloud deployment, where is the AAA server and Active Directory (AD) located?
When deployed in a public cloud only, the Catalyst 9800-CL supports FlexConnect central authentication and local switching deployment. It is recommended to locate the AAA server and AD in the customer’s on-premises data center.

What is the recommended EC2 instance for a public cloud deployment?
The recommended EC2 instance when the Catalyst 9800-CL is deployed in a public cloud is “c5.xlarge”.

Is the Catalyst 9800-CL available in all regions for public cloud deployment?
Yes, the Catalyst 9800-CL is available in all regions for deploying a virtual wireless controller in a public cloud.

Is the Catalyst 9800-CL available in the AWS GovCloud region?
Yes, the Catalyst 9800-CL is available in the AWS GovCloud region to deploy a virtual wireless controller.

Can I have multiple managed VPN connections from every branch to terminate on a cloud router?
Yes. Multiple VPN connections can be established from every branch router to the Cisco CSR for direct reachability from Cisco access points in the branch to the Catalyst 9800-CL when deployed in a public cloud.

Can I deploy an N+1 Wireless Controller in the public cloud for high availability?
Yes. An N+1 wireless controller can be deployed with the Catalyst 9800-CL in the public cloud, configuring a primary, secondary, and tertiary wireless controller per access point.

Can I have a hybrid model, with a Wireless Controller in the cloud configured as a secondary controller for access points joined on a private cloud?
Yes, the Catalyst 9800-CL, when deployed in a public cloud, can be configured as a secondary or tertiary wireless controller per access point when access points have joined the wireless controller in a private cloud as primary controller.

What is the SKU/PID for Catalyst 9800 Wireless Controller for Cloud?
The SKU/PID is C9800-CL-K9. There will be single PID/SKU for private and public cloud.
Cisco Catalyst 9800 Wireless Controller for Switch

Q: What is Cisco Catalyst 9800 Wireless Controller for Switch?
A: The Cisco Catalyst 9800 Wireless Controller for Switch is the next generation of enterprise-class wireless controller software built for high availability and security. Cisco Catalyst 9800 Wireless Controller software is based on the modern operating system, the open Cisco IOS XE Software. It supports model-driven programmability, streaming telemetry, and patching.

Cisco Catalyst Wireless Controller software for Switch will provide customers the flexibility to enable wireless on Cisco Catalyst 9300 switching platforms with customization in deployment topologies and features richness. The wireless controller software for switches delivers high-speed, secure wireless services with differentiating features like zero-touch AP provisioning and high availability.

The C9800-SW software image is based on Cisco IOS XE Software. It enables customers to deploy a wireless controller on Catalyst 9300 switching platforms with the same enterprise-class networking features and services that currently have on their external hardware-based wireless appliance, all configured and monitored via standard-programmable interfaces.

What is SD-Access Embedded Wireless?
Cisco Catalyst Wireless Controller software for Switch will provide customers the flexibility to enable wireless on Catalyst 9300 switching platforms. The C9800-SW software image is based on Cisco IOS XE Software and is a sub-package that can be downloaded from Cisco.com and imported on top of Cisco IOS XE Software, which runs on Catalyst 9300 switching platforms. The deployment mode supported when wireless is enabled on the Catalyst 9300 switching platforms is fabric-enabled wireless (SD-Access). Since this is a software sub-package that is embedded into base Cisco IOS XE Software, it will also be referred as SD-Access Embedded Wireless.

What is the customer value proposition for SD-Access Embedded Wireless?
Cisco SD-Access, built on the principles of the Cisco Digital Network Architecture (Cisco DNA), provides a transformational shift in building and managing networks: faster, easier, and with improved business efficiency. By decoupling network functions from hardware, SD-Access helps ensure policy consistency, enables faster launches of new business services, and significantly improves issue-resolution times while being open and extensible and reducing operational expenses.

The Cisco® Catalyst® “C9800-SW” Software Image is based on Cisco IOS® XE Software and is a sub-package which get embedded onto base Cisco IOS® XE enabling customers to deploy SD-Access Wireless on Cat9300 switching platforms.

Benefits of the embedded version of the next-generation Wireless Controller include:

• **Scale and performance** - Centralize the control-plane offered by the embedded Catalyst 9800 wireless software with distributed data-plane forwarding in hardware at the fabric edges, which provide exceptional scalability and performance for data forwarding and throughput.

• **Enhanced guest management** - Gain an optimized data path with no hairpinning of guest traffic, from export foreign to export anchor. Traffic is sent directly from the fabric edge to the fabric border to exit the fabric. This eliminates the need to have a dedicated guest anchor controller in the Demilitarized Zone (DMZ).

• **Superior mobility** - Enjoy simple IP address management. Deploy one large subnet with no VLAN spanning and no large broadcast domain for wireless SSID across the network, resulting in layer 2 roaming and no hairpinning of traffic when roams occur.

• **Operational simplicity** - Deploy a common policy for wired and wireless from one management platform. Cisco DNA Center provides operational simplicity.

• **Cost-effectiveness** - Customers do not need to buy a dedicated hardware appliance to enable SD-Access (SDA) wireless on distributed branches and small campuses.
Is the Catalyst 9800 wireless software that is embedded on the Catalyst 9k switching platforms the same software that runs on Catalyst 9800 Series Wireless Controllers?

Yes, the Catalyst 9800 wireless software package that is embedded on the Catalyst 9k switching platform is based on the same Cisco IOS XE Software that runs on the Catalyst 9800 Series Wireless Controllers.

Is a separate image needed to enable Wireless on Catalyst 9k switching platforms or is wireless functionality available on Cisco IOS XE Software that runs on the switching platform?

A separate software image is needed to enable wireless functionality on the Catalyst 9k switching platforms. The C9800-SW software image is based on Cisco IOS XE Software. It is a sub-package that can be downloaded from Cisco.com and imported on top of the base Cisco IOS® XE Software that runs on Catalyst 9k switching platforms to enable wireless functionality.

What subscription license do I need to enable Wireless on Catalyst 9k switching platforms?

You will need to purchase Cisco DNA Advantage or Cisco DNA Premier subscription licenses per access point to enable wireless functionality on a switch. Cisco ONE Advantage has been replaced by Cisco DNA Premier.

I already have Cisco DNA Advantage or Cisco One Advantage (now known as Cisco DNA Premier) license for Catalyst switches. Do I still need to buy separate license per access point to enable wireless functionality on Catalyst 9k series switches?

Yes, the Cisco DNA Advantage or Cisco DNA Premier licenses for Catalyst switches will provide advance switching functionalities. To enable wireless functionality on switching platforms, separate Cisco DNA Advantage or Cisco DNA Premier subscription licenses are needed per access point.

What deployment modes are supported when wireless functionality is enabled on the Catalyst 9k switching platforms?

Fabric Enable Wireless (SDA) is the only supported deployment mode when wireless functionality is enabled on Catalyst 9k switching platforms.

What different mechanism are supported to onboard access points with SD-Access Embedded Wireless?

For easy onboardig of access points, customers can use the Plug-n-Play (PnP) functionality of the access point and Cisco DNA Center. Customers can also use any regular Control and Provisioning of Wireless Access Points (CAPWAP) discovery methods such as layer 3 CAPWAP discovery, locally stored wireless controller IPv4 address discovery, Dynamic Host Configuration Protocol (DHCP) server discovery using option 43, DHCP server discovery using option 52, Domain Name System (DNS) discovery, and others to on-board Cisco access points on SD-Access Embedded Wireless.

Which Cisco access points are supported with SD-Access Embedded Wireless?

All 802.11ac Wave 1 indoor and Wave 2 indoor and outdoor Cisco Aironet® access points are supported with SD-Access Embedded Wireless.

Is programmability supported on SD-Access Embedded Wireless?

Yes, SD-Access Embedded Wireless runs a modern operating system, the open Cisco IOS XE Software package, which supports model-driven programmability and streaming telemetry.
How many Cisco access points and wireless clients are supported by SD-Access Embedded Wireless?

The C9800-SW software image is based on Cisco IOS XE Software and is a sub-package which can be downloaded from Cisco.com and imported on top of base Cisco IOS XE software, which runs on Catalyst 9k switching platforms to enable wireless functionality. Once enabled, fabric-enable wireless (SDA) is the only supported deployment mode and will support up to 200 access points and 4000 wireless clients per switch, as well as a maximum 400 access points and 8000 wireless clients per site. Wireless functionality can be enabled on a maximum of two switches configured for the border role per site.

What are different topologies supported with SD-Access Embedded Wireless?

The C9800-SW software image is based on Cisco IOS XE software and is a sub-package which can be downloaded from Cisco.com and imported on top of base Cisco IOS XE Software, which runs on Catalyst 9k switching platforms to enable wireless functionality. Wireless functionality on Catalyst 9k switching platforms can only be enabled on two topologies:

- When Catalyst 9300 series switches are configured with a co-located border and control plane.
- When a Catalyst 9300 switch is configured with fabric in a box (border and control plane and fabric edge).

Will SD-Access Embedded Wireless support all features and functionality that are supported today with a Cisco AireOS base fabric deployment?

Yes, all the features and functionality that are supported today with an AireOS base fabric deployment are also supported with SD-Access Embedded Wireless.

Will SD-Access Embedded Wireless support high availability?

Yes, SD-Access Embedded Wireless will support high availability with access-point and client stateful switchover (SSO) between two stacked Catalyst 9300 switches.

Is guest anchor supported with SD-Access Embedded Wireless?

With SDA wireless, deployment guest traffic is sent directly from the fabric edge to the fabric border to exit the fabric. This results in an optimized data path with no hair-pinning of guest traffic from export foreign to export anchor, and hence, eliminates the need to have a dedicated guest anchor controller in the Demilitarized Zone (DMZ) with SD-Access Embedded Wireless.

What management capabilities are available in SD-Access Embedded Wireless?

SD-Access Embedded Wireless has been designed to work with Cisco DNA Center, using the Cisco DNA Center Appliance.

Can Cisco DNA Center (Cisco DNA Center) manage SD-Access Embedded Wireless for automation and assurance?

Yes, SD-Access Embedded Wireless will be managed from Cisco DNA Center for automation and assurance workflows.

Is it recommended to use integrated WebUI on Catalyst 9k switches, or Cisco Prime to configure and monitor wireless functionality?

SD-Access Embedded Wireless should be configured and monitored using Cisco DNA Center, leveraging automation and assurance capabilities.
Is extended node supported with SD-Access Embedded Wireless?
Yes, extended node is supported with SD-Access Embedded Wireless on supported topologies. An access point, when connected to extended node, will form a VxLAN tunnel to the fabric edge switch.

Do all models of the Catalyst 9300 Series Switches support SD-Access Embedded Wireless functionality?
All Catalyst 9300 SKUs support SD-Access Embedded Wireless functionality.

Which other Catalyst switch series support SD-Access Embedded Wireless functionality?
In 16.10 IOS-XE release only Catalyst 9300 series support SD-Access Embedded Wireless. Other catalyst switching series like 9400, 9500 will be added in future release.

Will Catalyst 9200 series support SD-Access Embedded Wireless?
No, Catalyst 9200 series will not support SD-Access Embedded Wireless.

What is the SKU/PID for SD-Access Embedded Wireless?
There is no special SKU/PID for SD-Access Embedded Wireless. You can buy Catalyst 9300 series switch with the Cisco DNA Advantage or Cisco DNA Premier licenses which will provide advance switching functionalities. To enable wireless functionality on above platform, separate Cisco DNA Advantage or Cisco DNA Premier subscription licenses are needed per access point. Once required hardware and licenses are procured you can go to Cisco.com and download the “C9800-SW” software image which is a sub-package and install on top of base Cisco IOS XE Software, which runs on Catalyst 9k switching platforms to enable wireless functionality.

Catalyst 9800 Series Wireless Controller Licensing

Do I need any licenses for Catalyst 9800 Series Wireless Controllers?
There are no licenses required to boot up a Catalyst 9800 Series Wireless Controllers. However, in order to connect any access points to the Catalyst 9800 controller, Cisco DNA licenses are required. Each access point that connects to the Catalyst 9800 controller requires a Cisco DNA license to be entitled to connect.

Is it mandatory to have Cisco DNA licenses for every access points to connect to Catalyst 9800 controllers?
Yes. It is mandatory to have Cisco DNA licenses for every access point that is connected to Catalyst 9800 Wireless Controllers. If there are not sufficient Cisco DNA licenses to cover all the access points connected to a Cisco Catalyst Controller, an out-of-compliance message will be displayed. This out-of-compliance message will be purely informational and will not impact the functionality of the wireless deployment.
What are the steps I have to undertake for licensing after purchasing a Catalyst 9800 Controller up to day 1?

You need to follow below steps to enable day 1 licensing

1. Create a Smart Account
2. Register the Catalyst 9800 Controller using the Smart Account
3. For customers who are refreshing WLCs
4. Deposit existing Cisco DNA licenses, if any, into the Smart Account
5. Leverage offers to migrate existing perpetual licenses to Cisco DNA licenses
6. For customers who are scaling up their deployments and for new customers
7. Purchase Cisco DNA licenses for access points connecting to the Catalyst 9800 Controller
8. Configure the license level on the box post-bootup

Is a Smart Account mandatory for a Catalyst 9800 Series Wireless Controllers?

Yes, a Smart Account is mandatory for Catalyst 9800 Series Wireless Controllers.

How do I create a Smart Account?

Refer to www.cisco.com/go/smartlicensing to create Smart Accounts.

How do I register my Catalyst 9800 wireless controller upon purchase?


What happens if I don’t register my Catalyst 9800 Controller?

If the device is not registered it will be in evaluation mode for 90 days. After the expiry of the evaluation period, the device which is not registered will display syslog evaluation expiry messages on the wireless controller. These error messages are purely informational and will not impact the functionality of the Catalyst 9800 Wireless Controller.

How do I deposit my existing Cisco DNA license into my Smart Account?

Customers who have Cisco DNA licenses and don’t have Smart Accounts will have to deposit the Cisco DNA licenses into the Smart Account. This can be done by contacting the Cisco Technical Assistance Center (TAC).

How do I migrate my existing Perpetual licenses to Cisco DNA licenses?

You can leverage wireless promotions in order to migrate your Perpetual access-point licenses to Cisco DNA licenses. All access points must be covered by Cisco DNA licenses.

What are the Smart Licensing levels that Cisco Catalyst controllers support?

There are four levels of licenses that are supported on Cisco Catalyst Controllers. Cisco Catalyst controllers can be configured to function at any one of these four levels.

- **Cisco DNA E:** At this level the Cisco DNA Essentials features set will be supported.
- **Cisco DNA A:** At this level the Cisco DNA Advantage feature set will be supported.
- **NE:** At this level the Network Essentials feature set will be supported.
- **NA:** At this level the Network Advantage feature set will be supported.
How are the Smart License levels configured for Catalyst 9800 Wireless Controllers?

License levels can be configured through CLI, Inteiated WLC UI, and Cisco DNA Center. Following are sample configurations for license levels:

- Config t
  #license air level ?
  air-network-advantage AIR Network advantage License Level
  air-network-essentials AIR Network essential License Level
  #license air level air-network-essentials addon?
  air-dna-essentials AIR DNA essential License Level
  #license air level air-network-advantage addon?
  air-dna-advantage AIR DNA advantage License Level

Can I mix different licensing levels for the access points connected to the same Catalyst 9800 Controller?

A Catalyst 9800 Controller require access points connected to that controller to have the same license level. Since the license level is set up at the Catalyst 9800 controller level, the access points connecting to the controller will have to be at the same license level.

How can I track my Cisco DNA license consumption on a Catalyst 9800 Wireless Controller?

Cisco DNA license consumption can be tracked through the Cisco DNA Center appliance. Cisco DNA Center will help to track license entitlement, license levels, license mode, and license consumption.

Is there licensing enforcement on the Catalyst 9800 Wireless Controller?

Catalyst 9800 wireless controllers perform soft enforcement by displaying an out-of-compliance message if sufficient Cisco DNA licenses are not available to cover all the connected access points. There is no hard enforcement and hence, no impact on wireless functionality.

What happens when the Cisco DNA subscription term expires for access points connected to a Catalyst 9800 Wireless Controller?

Upon expiry of the Cisco DNA term, customers have two options:
• Renew the Cisco DNA license term.
• Configure the Catalyst 9800 controller at the Network Essentials or Network Advantage license level.

What is the impact of hardware RMA on the Catalyst 9800 controller’s licensing?

There is no impact on licenses due to hardware RMA. Customers can reconnect their access points to the new wireless controller post-RMA without any licensing impact.

Catalyst 9800 Series Wireless Controller and Cisco DNA Center Integration

What is the minimum Cisco DNA Center release version needed to support Catalyst 9800 Series Wireless Controller?

Starting 1.2.8 release version of Cisco DNA Center, Catalyst 9800 Series Wireless Controllers will be supported for Automation and Assurance workflows.

Will Cisco DNA Center support Catalyst 9800 Wireless Controller for all deployment modes?

Yes, starting 1.2.8 release version of Cisco DNA Center all deployment modes which include Centralize Wireless, FlexConnect and Fabric (SDA) will be supported for automation and assurance workflows.

Will Cisco DNA Center support all form factors of Catalyst 9800 Series Wireless Controllers?

Cisco DNA Center will support following form factors of Catalyst 9800 Series Wireless Controllers:
• Catalyst 9800-80 Wireless Controller
• Catalyst 9800-40 Wireless Controller
• Catalyst 9800-L Wireless Controller
• Catalyst 9800-CL Wireless Controller for Private Cloud
• Catalyst 9800 SD-Access Embedded Wireless
FAQ
Cisco public

What is the supported scale on Cisco DNA Center 1.2.8 release for Catalyst 9800 Wireless Controller?

Cisco DNA Center 1.2.8 release will support 3000 Access Point and 25000 Wireless Clients for Catalyst 9800 Wireless Controller.

Can I learn configs from a brownfield AirOS Wireless Controller and transfer to Catalyst 9800 Wireless Controller?

Yes. Cisco DNA Center will learn configuration from AirOS wireless controller and automate the supported design workflows for a site. Customer can provision new Catalyst 9800 Wireless Controller with the learnt design. There is no need to manually convert configuration in above stated scenario.

How do I push advance configurations that are not supported using Cisco DNA Center?

CLI templates can be used as mechanism to push advance configuration on Catalyst 9800 Wireless Controllers.

I have an existing Prime instance, can Prime and Cisco DNA Center co-exist?

Yes. In a co-existing scenarios customer can use Prime and Cisco DNA Center for following:
• Cisco DNA Center for Assurance and Prime for automation and reporting.
• Cisco DNA Center for Automation and Assurance and Prime for additional monitoring and reporting functionalities.
Cisco do not recommend customers using both Prime and Cisco DNA Center for automation and configuration changes.

Does Cisco DNA Center 1.2.8 release support all assurance workflows for Catalyst 9800 Wireless Controller as supported today with AirOS Wireless Controllers?

Yes. All assurance workflows supported in Cisco DNA 1.2.8 release for AirOS wireless controller will be supported for Catalyst 9800 Series Wireless Controllers.

Catalyst 9800 Series Wireless Controller product documentation and migration

Where can I find data sheet for C9800-80 Wireless Controller?
C9800-80 Data Sheet

Where can I find data sheet for C9800-40 Wireless Controller?
C9800-40 Data Sheet

Where can I find data sheet for C9800-L Wireless Controller?
C9800-L Data Sheet

Where can I find data sheet for C9800-CL Wireless Controller?
C9800-CL Data Sheet

Where can I find data sheet for Catalyst 9800 SD-Access Embedded Wireless?
C9300 Data Sheet