



Cisco Catalyst 8000V Edge Software

August 2024





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Cisco® Catalyst® 8000V Edge Software (Catalyst 8000V) is the next generation virtual router designed for multicloud deployments connecting customer endpoints from cloud to edge. The Catalyst 8000V can be deployed in the cloud marketplace (AWS, Azure, and GCP) on-premises or in a colocation facility, and at virtualized branch locations.

The Catalyst 8000V is a unified image that can boot in both Controller and Autonomous mode and is the successor to the currently shipping Cisco Cloud Services Router 1000V and Integrated Services Virtual Router.

The Catalyst 8000V must be ordered with a mandatory Cisco DNA subscription license and can be deployed in either traditional routing or SD-WAN mode.

This ordering guide takes you through the steps of ordering the hardware platforms and the Cisco DNA subscriptions.

The software image itself can be downloaded from the Cisco software webpage.

For Cisco Enterprise Network Compute System (ENCS) questions, please refer to the respective ordering guide.

On-premises hypervisor support:

- ESXi 6.7
- KVM RHEL 7.7



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Ordering Cisco Catalyst 8000V Edge Software

The Catalyst 8000V requires a mandatory Cisco DNA subscription license. Cisco DNA subscription licenses are common across SD-WAN and traditional routing deployments, giving customers flexibility to consume the latest technology, either in the cloud or on-premises. All Cisco DNA subscription tiers require a Smart Account/Virtual Account (SA/VA).

Cisco DNA for SD-WAN and Routing subscription licenses include embedded SWSS support, as well as Success Tracks and Solution Support. These services provide coverage ONLY for the subscription functionality (Cisco Catalyst SD-WAN Manager, Cisco Catalyst SD-WAN Analytics, Cisco Catalyst SD-WAN Validator, Cisco Catalyst SD-WAN Controller, Cisco Umbrella SIG Essentials, etc.) enabled by the Cisco DNA Subscription (Cisco DNA Essentials or Advantage). These services DO NOT cover the Network Stack.

Use the part number mentioned in Table 1 to order subscription licenses for the Catalyst 8000V.

Table 1. Cisco DNA subscription license part number for the Catalyst 8000V running on edge platforms

Part number	Description
L-DNA-C8000V	Cisco DNA subscription for Catalyst 8000V router and associated platforms

Note: For a general overview of Cisco DNA subscriptions, refer to the <u>Cisco DNA Software for SD-WAN and Routing</u> guide.



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Working with the L-DNA-C8000V license

Ordering the Cisco DNA subscription license using L-DNA-C8000V can be completed in four simple steps:

- 1. Select the platform.
- 2. Select the software mode (the management type).
- 3. Choose the Cisco DNA subscription part number (i.e., DNA-C-T3-A-3Y).
- 4. Expand export compliance licenses (C8000V-HSEC).

1. Select the platform

Select your preferred platform. Also order the required Cisco DNA subscription license that meets your needs, as shown in the following screenshot.

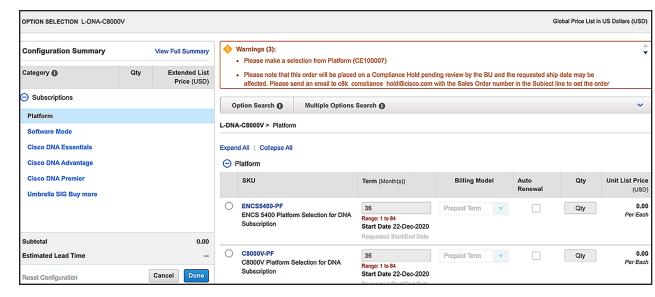


Figure 1. Platform selection



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2. Select the software mode (management mode)

Select the preferred software mode, which indicates the management type used (as shown in the following screenshot).

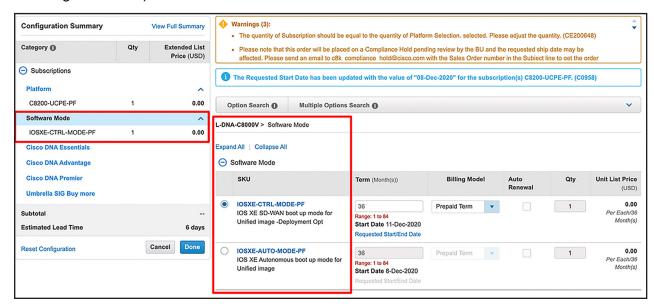


Figure 2. Software mode selection



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3. Choose the Cisco DNA subscription SKU

Next, choose the Cisco DNA subscription SKU based on the management type, preferred bandwidth, tier, and term requirements (as shown in the following screenshot).

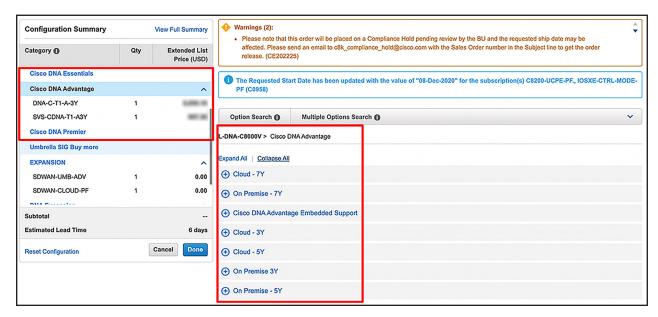


Figure 3. Cisco DNA subscription SKU selection



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Figure 4 details the subscription bandwidth tiers.

Platforms	T0 (up to 50M Agg.)	T1 (up to 400M Agg.)	T2 (up to 2G Agg.)	T3 (up to 20G Agg.)	T4 (up to 50G Agg.)			
C8000V-PF	✓ ✓	✓ ✓	✓ ✓	~	✓			
ENCS5400-PF C8200-UCPE-PF								
✓ Advantage ✓ Essentials								

Figure 4. Cisco DNA subscription applicability matrix for Catalyst 8000V platforms

Note: A Tier 1 bandwidth license provides entitlement for 400Mbps aggregate crypto throughput with HSEC. However, one-way encrypted traffic must be less than 250Mbps. For instance, 250Mbps download and 150Mbps upload would work but 300Mbps download and 100Mbps upload would be throttled down to 250Mbps and 100Mbps.

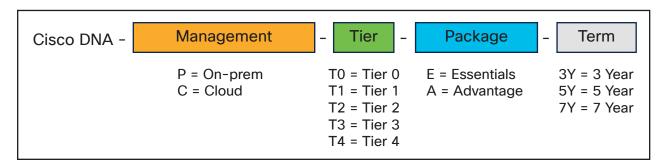


Figure 5. How to read the Cisco DNA subscription tier SKUs in Table 3

^{*}The ENCS5400-PF platform is recommended for up to 1 Gbps aggregate throughput.



See Table 2 for the applicable subscription SKUs for these tiers.

Table 2. Cisco DNA Essentials and Advantage subscription tiers applicable for all Catalyst 8000 edge platforms

Platform	Subscription Package Tier	Tier 0 Up to 50M Agg.	Tier 1 Up to 400M# Agg.	Tier 2 Up to 2G Agg.	Tier 3 Up to 20G Agg.	Tier 4 Up to 50G Agg.	Term
C8000V-PF	Cisco DNA Advantage	DNA-C-T0-A-3Y DNA-C-T0-A-5Y DNA-C-T0-A-7Y DNA-P-T0-A-3Y DNA-P-T0-A-5Y DNA-P-T0-A-7Y	DNA-C-T1-A-3Y DNA-C-T1-A-5Y DNA-C-T1-A-7Y DNA-P-T1-A-3Y DNA-P-T1-A-5Y DNA-P-T1-A-7Y	DNA-C-T2-A-3Y DNA-C-T2-A-5Y DNA-C-T2-A-7Y DNA-P-T2-A-3Y DNA-P-T2-A-5Y DNA-P-T2-A-7Y	DNA-C-T3-A-3Y DNA-C-T3-A-5Y DNA-C-T3-A-7Y DNA-P-T3-A-3Y DNA-P-T3-A-5Y DNA-P-T3-A-7Y	DNA-C-T4-A-3Y DNA-C-T4-A-5Y DNA-C-T4-A-7Y DNA-P-T4-A-3Y DNA-P-T4-A-5Y DNA-P-T4-A-7Y	3Y, 5Y, 7Y
	Cisco DNA Essentials	DNA-C-T0-E-3Y DNA-C-T0-E-5Y DNA-C-T0-E-7Y DNA-P-T0-E-3Y DNA-P-T0-E-5Y DNA-P-T0-E-5Y	DNA-C-T1-E-3Y DNA-C-T1-E-5Y DNA-C-T1-E-7Y DNA-P-T1-E-3Y DNA-P-T1-E-5Y DNA-P-T1-E-5Y	DNA-C-T2-E-3Y DNA-C-T2-E-5Y DNA-C-T2-E-7Y DNA-P-T2-E-3Y DNA-P-T2-E-5Y DNA-P-T2-E-7Y			3Y, 5Y, 7Y



Platform	Subscription Package Tier	Tier 0 Up to 50M Agg.	Tier 1 Up to 400M# Agg.	Tier 2 Up to 2G Agg.	Tier 3 Up to 20G Agg.	Tier 4 Up to 50G Agg.	Term
ENCS5400-PF	Cisco DNA Advantage	DNA-C-T0-A-3Y DNA-C-T0-A-5Y DNA-C-T0-A-7Y DNA-P-T0-A-3Y DNA-P-T0-A-5Y	DNA-C-T1-A-3Y DNA-C-T1-A-5Y DNA-C-T1-A-7Y DNA-P-T1-A-3Y DNA-P-T1-A-5Y	DNA-C-T2-A-3Y** DNA-C-T2-A-5Y** DNA-C-T2-A-7Y** DNA-P-T2-A-3Y** DNA-P-T2-A-5Y**			3Y, 5Y, 7Y
	Cisco DNA Essentials	DNA-P-T0-A-7Y DNA-C-T0-E-3Y DNA-C-T0-E-5Y DNA-C-T0-E-7Y DNA-P-T0-E-3Y DNA-P-T0-E-5Y	DNA-P-T1-A-7Y DNA-C-T1-E-3Y DNA-C-T1-E-5Y DNA-C-T1-E-7Y DNA-P-T1-E-3Y DNA-P-T1-E-5Y	DNA-P-T2-A-7Y** DNA-C-T2-E-3Y** DNA-C-T2-E-5Y** DNA-C-T2-E-7Y** DNA-P-T2-E-3Y** DNA-P-T2-E-5Y**			3Y, 5Y, 7Y

^{**}The ENCS5400-PF platform is recommended for up to 1 Gbps aggregate throughput

[#]One-way encrypted traffic must be less than 250Mbps for a T1 bandwidth license



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4. Expand export compliance licenses (C8000V-HSEC)

When you choose a Cisco DNA subscription license the C8000V-HSEC is automatically expanded. This is not an HSEC license by itself; rather, it entitles the customer to an HSEC license.

Refer to https://www.cisco.com/c/en/us/td/docs/routers/sl_using_policy/b-sl-using-policy.html for information on generating SLAC-based HSEC licenses for the Catalyst 8000V.

Cloud marketplace offers

There are two options for users to consume the Catalyst 8000V in the cloud marketplace. The first is the Bring-Your-Own-License (BYOL) model, in which a user purchases their Catalyst 8000V Cisco DNA license from Cisco and deploys it in the cloud. The second option is the Pay-As-You-Go (PAYG) model, in which users can deploy a Catalyst 8000V instance in the cloud and purchase the usage on an hourly basis.

Bring your own license

The BYOL solution enables customers to purchase a Catalyst 8000V Cisco DNA license from Cisco or a Cisco partner and deploy the license in the cloud. See the earlier section on ordering a Catalyst 8000V Cisco DNA license.

Pay as you go

The PAYG options allow users to consume the Catalyst 8000V on an hourly basis without having to prepay for a term subscription license.

There are two PAYG options for consuming licenses in the AWS marketplace:

- Catalyst 8000V Cisco DNA Essentials
- · Catalyst 8000V Cisco DNA Advantage

The section below outlines the BYOL and PAYG offers in the three cloud marketplaces with Catalyst 8000V support: AWS, Azure, and GCP.



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AWS marketplace

Users can select a range of AWS EC2 instances for their cloud networking needs powered by Cisco's Catalyst 8000V virtual router. The figure below shows how to select a cloud instance.

	Hourly	Annual		
0	c4.8xlarge			\$4.000
O	c5.large ★Vendor Recommended	\$1,770	-	\$1.807
0	c5.xlarge			10.00
0	c5.2xlarge			50.000
0	c5.4xlarge	86.70		91.00
0	c5.9xlarge	\$6.70	\$1.00	\$4.60

Figure 6. Selecting Catalyst 8000V AWS AMI

AWS supported instances:

t3.medium
c5.4xlarge
c5n.2xlarge
c5n.4xlarge
c5n.4xlarge
c5n.4xlarge
c5n.9xlarge
c5n.9xlarge
c5n.9xlarge



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Azure marketplace

Users can select a range of Azure compute instances for their cloud networking needs powered by Cisco's Catalyst 8000V virtual router. The figure below shows how to select a cloud instance.

- Catalyst 8000V Cisco DNA Essentials 17.4.1a
- Catalyst 8000V Cisco DNA Advantage 17.4.1a

Virtual Machine			Configuration			Cost per hour		Total cost	
Instance	Category	Cores	RAM	Disk Space	Drive Type	Infrastructure Cost	Software Cost	Hourly	Monthly
DS2V2*	General Purpose	2	7GB	14GB	SSD		8.70		
DS3V2*	General Purpose	4	14GB	28GB	SSD			-	-
DS4V2*	General Purpose	8	28GB	56GB	SSD			-	-
F32SV2*	Compute Optimized	32	64GB	256GB	SSD	100		20.00	-
F16SV2*	Compute Optimized	16	32GB	128GB	SSD		100	-	
*Premium storage	*Premium storage is available for this type of virtual machine. Learn more								

Figure 7. Azure VHD options for deploying the Catalyst 8000V

Azure supported instances:

General deployment: Controller mode and Autonomous mode

- DS2V2
- DS3V2
- DS4V2
- F16SV2
- F32SV2

vWAN only

- D4V3
- D8V3



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GCP marketplace

The Catalyst 8000V in Controller and Autonomous mode will support the GCP instances below.

- N1-standard-2
- N1-standard-4
- N1-standard-8

Cisco Catalyst 8000V TAC support product IDs

Cisco will have 12-month support SKUs customers can purchase for software support on their PAYG instances.

Cisco and Partner Services

Cisco DNA for SD-WAN and Routing subscription licenses include embedded SWSS support, as well as Success Tracks and Solution Support. These services provide coverage ONLY for the subscription functionality (Cisco Catalyst SD-WAN Manager, Cisco Catalyst SD-WAN Analytics, Cisco Catalyst SD-WAN Validator, Cisco Catalyst SD-WAN Controller, Cisco Umbrella SIG Essentials, etc.) enabled by the Cisco DNA Subscription (Cisco DNA Essentials and Advantage). These services DO NOT cover the Network Stack.

Cisco Customer Experience Support Services for Catalyst 8000 platforms and Cisco DNA Software for SD-WAN and Routing

This section discusses the Cisco Support Services available for Catalyst 8000 platforms and associated Cisco DNA Software for SD-WAN and Routing, as well as optional Support Service offers.

 Catalyst 8000 platforms: Cisco Success Tracks is the default and recommended Cisco support service. However, Cisco Success Tracks is not mandatory; it can be removed or replaced with another Cisco support service or partner service per the customer's preference.



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 Cisco DNA Software for SD-WAN and Routing: Cisco Success Tracks is the default and recommended Cisco support service. However, Cisco Success Tracks is not mandatory; the customer may choose to use the Cisco Subscription Embedded Software Support included with the purchase of this software or another available Cisco support service or partner service option.

Notes:

- When Success Tracks is selected, it must be ordered on both the Catalyst 8000 platform and Cisco DNA Software for SD-WAN and Routing for complete customer entitlement to this premium support service.
- DNA Software for SDWAN and Routing licenses: with all services tied to this software license, whether Success Tracks, Solution Support, or Cisco Subscription Embedded Software Support, customers are entitled to maintenance releases and software updates for Cisco DNA SD-WAN software only. The support for the Catalyst 8000 platform's OS and network stack, along with OS updates, is covered by the support contract on the Catalyst 8000 platform.

Success Tracks is a comprehensive suite of services powered by CX Cloud designed to empower customers to simplify, reduce risk and drive innovation for their Cisco IT environments. Success Tracks includes everything in Cisco Solution Support (see description below), plus the following:

- Proven product activation checklists and success tips
- Access to live and on-demand expert resources
- · Direct access to engineering expertise
- AI/ML-based analytics
- Curated library of Product Alerts and Field Notices
- · Centralized inventory tracking and asset management
- Configuration assessment for security and compliance
- · Recommendations for software updates



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- Simplified case management and rapid problem resolution
- Practice labs for pre-production testing
- Technical certification learning assistance

Cisco Solution Support is a premium support purpose-built for today's multiproduct, multivendor network environments and provides:

- A primary point of contact centralizing support across a solution deployment
- Solution, product, and interoperability expertise
- No requirement for customers to isolate their issue to a product to open a case.
- 30-minute service response objective for Severity 1 and 2 cases
- Prioritized case handling over product support cases
- Product support team coordination (Cisco and Solution Support Alliance Partners)
- Accountability for multiproduct, multivendor issue management from first call to resolution, no matter where the issue resides.

Learn more about Cisco Success Tracks here.

Cisco Subscription Embedded Software Support includes:

Access to support and troubleshooting via online tools and web case submission. Case severity or escalation guidelines are not applicable.

- Cisco Technical Assistance Center (TAC) access 24 hours per day, 7 days per week to assist
 by telephone, or web case submission and online tools with application software use and
 troubleshooting issues.
- Access to https://www.cisco.com, providing helpful technical and general information on Cisco products, as well as access to Cisco's online Software Center library.



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Note: No additional products or fees are required to receive embedded support for Cisco DNA Software for SD-WAN and Routing. However, if using embedded support for this software, hardware support for the Catalyst 8000 platforms must be purchased separately, as Cisco Subscription Embedded Software Support does not cover hardware. In this case, Cisco Smart Net Total Care Service is recommended for Catalyst 8000 platforms.

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Ordering information

To place an order, visit the Cisco Ordering homepage.

To download software, visit the Cisco Software Center at https://software.cisco.com/.

For more information

For more information about the Cisco Catalyst 8000V, visit: https://www.cisco.com/c/en/us/ products/collateral/routers/catalyst-8000v-edge-software/datasheet-c78-744101.html or contact your local Cisco account representative.