

Cisco Catalyst 8000V Edge Software

January 2021



**Catalyst 8000V
Unified**

The gateway to your intent-based WAN network is here

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 co-location facility, and at virtualized branch locations.

The Catalyst 8000V is an 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

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 include Cisco Software Support Service (SWSS) and require a Smart Account/Virtual Account (SA/VA). Use the part number mentioned in Table 1 to order subscription licenses for the Catalyst 8000V.

Contents

The gateway to your intent-based WAN network is here

Ordering Cisco Catalyst 8000V Edge Software

Working with the L-DNA-C8000V license

1. Select the platform
2. Select the software mode (management mode)
3. Choose the Cisco DNA subscription SKU

Cisco DNA subscription applicability matrix for Catalyst 8000V platforms

4. Expand export compliance licenses (C8000V-HSEC)

Cloud marketplace offers

AWS marketplace

Azure marketplace

GCP marketplace

Cisco Catalyst 8000V TAC support product IDs

Cisco and partner services

Cisco Capital

Ordering information
For more information

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 [Cisco DNA Software for SD-WAN and Routing](#) guide.

Working with the L-DNA-C8000V license

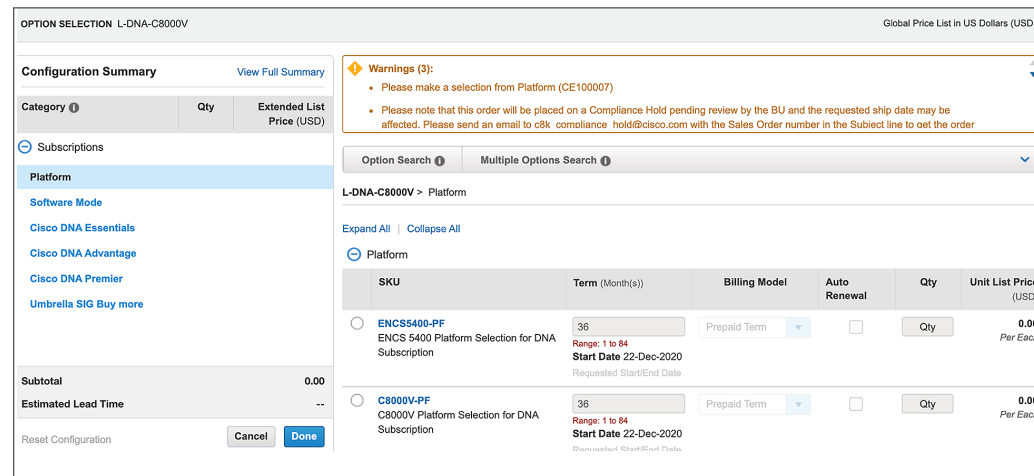
Ordering the Cisco DNA subscription license using L-DNA-C8000V can be completed in four simple steps:

1. Select the platform.
2. Select the software mode (the management type).
3. Choose the Cisco DNA subscription part number (i.e., DNA-C-100M-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



The screenshot shows the 'OPTION SELECTION L-DNA-C8000V' interface. It features a 'Configuration Summary' section with a 'View Full Summary' link. Below this is a 'Warnings (3)' section with a yellow warning icon and two bullet points: 'Please make a selection from Platform (CE100007)' and 'Please note that this order will be placed on a Compliance Hold pending review by the BU and the requested ship date may be affected. Please send an email to c8k_compliance_hold@cisco.com with the Sales Order number in the Subject line to opt the order'. The main area is titled 'L-DNA-C8000V > Platform' and contains a table of platform options. The table has columns for 'SKU', 'Term (Month(s))', 'Billing Model', 'Auto Renewal', 'Qty', and 'Unit List Price (USD)'. Two options are visible: 'ENC55400-PF' and 'C8000V-PF'. Both have a term of 36 months, a 'Prepaid Term' billing model, and a unit list price of 0.00 USD. The 'ENC55400-PF' option includes a 'Range: 1 to 84' and a 'Start Date 22-Dec-2020'. The 'C8000V-PF' option also includes a 'Range: 1 to 84' and a 'Start Date 22-Dec-2020'. A 'Subtotal' of 0.00 is shown at the bottom left, and a 'Reset Configuration' button is at the bottom left.

SKU	Term (Month(s))	Billing Model	Auto Renewal	Qty	Unit List Price (USD)
ENC55400-PF	36	Prepaid Term	<input type="checkbox"/>	Qty	0.00 Per Each
C8000V-PF	36	Prepaid Term	<input type="checkbox"/>	Qty	0.00 Per Each

Contents

The gateway to your intent-based WAN network is here

Ordering Cisco Catalyst 8000V Edge Software

Working with the L-DNA-C8000V license

1. Select the platform
2. Select the software mode (management mode)
3. Choose the Cisco DNA subscription SKU

Cisco DNA subscription applicability matrix for Catalyst 8000V platforms

4. Expand export compliance licenses (C8000V-HSEC)

Cloud marketplace offers

- AWS marketplace
- Azure marketplace
- GCP marketplace
- Cisco Catalyst 8000V TAC support product IDs

Cisco and partner services

Cisco Capital

Ordering information
For more information

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

Category	Qty	Extended List Price (USD)
Subscriptions		
Platform		
C8200-UCPE-PF	1	0.00
Software Mode		
IOSXE-CTRL-MODE-PF	1	0.00
Cisco DNA Essentials		
Cisco DNA Advantage		
Cisco DNA Premier		
Umbrella SIG Buy more		
Subtotal	--	--
Estimated Lead Time	6 days	

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

Category	Qty	Extended List Price (USD)
Cisco DNA Essentials		
Cisco DNA Advantage		
DNA-C-T1-A-3Y	1	6,050.16
SVS-CDNA-T1-A3Y	1	907.56
Cisco DNA Premier		
Umbrella SIG Buy more		
EXPANSION		
SDWAN-UMB-ADV	1	0.00
SDWAN-CLOUD-PF	1	0.00
Subtotal	--	--
Estimated Lead Time	6 days	

Contents

The gateway to your intent-based WAN network is here

Ordering Cisco Catalyst 8000V Edge Software

Working with the L-DNA-C8000V license

1. Select the platform
2. Select the software mode (management mode)
3. Choose the Cisco DNA subscription SKU

Cisco DNA subscription applicability matrix for Catalyst 8000V platforms

4. Expand export compliance licenses (C8000V-HSEC)

Cloud marketplace offers

- AWS marketplace
- Azure marketplace
- GCP marketplace
- Cisco Catalyst 8000V TAC support product IDs

Cisco and partner services

Cisco Capital

Ordering information
For more information

Cisco DNA subscription applicability matrix for Catalyst 8000V platforms

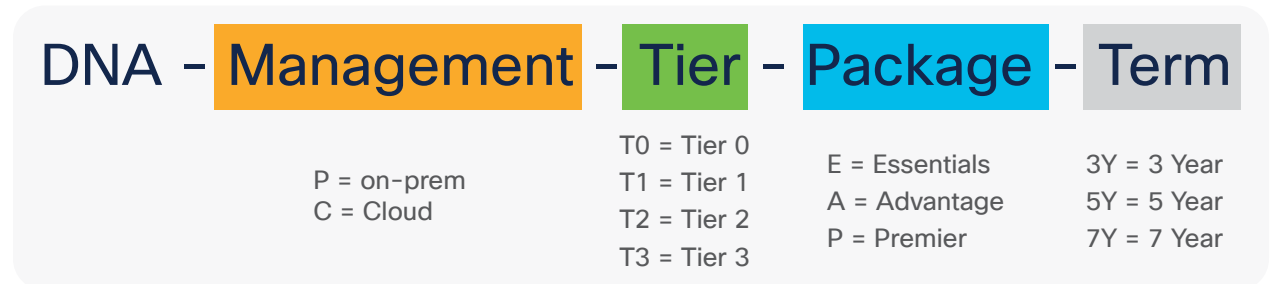
Figure 4 details the subscription bandwidth tiers.

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

	✓ Premier	✓ Advantage	✓ Essentials
	ENCS5400-PF	C8000V-PF	
Tier 0 (Upto 15M BW level) Up to 30M Agg.	✓✓✓	✓✓✓	
Tier 1 (25M-100M) Up to 200M Agg.	✓✓✓	✓✓✓	
Tier 2 (250M-1G) Up to 2G Agg.	✓✓✓	✓✓✓	
Tier 3 (2.5G-10G) Up to 20G Agg.		✓✓	

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

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



See Table 3 for the applicable subscription SKUs for these tiers.

Table 3. Cisco DNA Essentials, Advantage, and Premier subscription tiers applicable for all Catalyst 8000 edge platforms

Platform	Subscription Package Tier	Tier 0 Up to 30M Agg.	Tier 1 Up to 200M Agg.	Tier 2 Up to 2G Agg.	Tier 3 Up to 20G Agg.	Term
C8000v-PF	Cisco DNA Premier	DNA-C-T0-P-3Y DNA-C-T0-P-5Y DNA-P-T0-P-3Y DNA-P-T0-P-5Y	DNA-C-T1-P-3Y DNA-C-T1-P-5Y DNA-P-T1-P-3Y DNA-P-T1-P-5Y	DNA-C-T2-P-3Y DNA-C-T2-P-5Y DNA-P-T2-P-3Y DNA-P-T2-P-5Y	DNA-C-T3-P-3Y DNA-C-T3-P-5Y DNA-P-T3-P-3Y DNA-P-T3-P-5Y*	3Y, 5Y
	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	3Y, 5Y, 7Y
	Cisco DNA Essentials	DNA-C-T0-E-3Y DNA-C-T0-E-5Y DNA-P-T0-E-3Y DNA-P-T0-E-5Y	DNA-C-T1-E-3Y DNA-C-T1-E-5Y DNA-P-T1-E-3Y DNA-P-T1-E-5Y	DNA-C-T2-E-3Y DNA-C-T2-E-5Y DNA-P-T2-E-3Y DNA-P-T2-E-5Y		3Y, 5Y
ENCS5400-PF	Cisco DNA Premier	DNA-C-T0-P-3Y DNA-C-T0-P-5Y DNA-P-T0-P-3Y DNA-P-T0-P-5Y	DNA-C-T1-P-3Y DNA-C-T1-P-5Y DNA-P-T1-P-3Y DNA-P-T1-P-5Y	DNA-C-T2-P-3Y** DNA-C-T2-P-5Y** DNA-P-T2-P-3Y** DNA-P-T2-P-5Y**		3Y, 5Y
	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**		3Y, 5Y, 7Y
	Cisco DNA Essentials	DNA-C-T0-E-3Y DNA-C-T0-E-5Y DNA-P-T0-E-3Y DNA-P-T0-E-5Y	DNA-C-T1-E-3Y DNA-C-T1-E-5Y DNA-P-T1-E-3Y DNA-P-T1-E-5Y	DNA-C-T2-E-3Y** DNA-C-T2-E-5Y** DNA-P-T2-E-3Y** DNA-P-T2-E-5Y**		3Y, 5Y

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

Contents

The gateway to your intent-based WAN network is here

Ordering Cisco Catalyst 8000V Edge Software

Working with the L-DNA-C8000V license

1. Select the platform
2. Select the software mode (management mode)
3. Choose the Cisco DNA subscription SKU

Cisco DNA subscription applicability matrix for Catalyst 8000V platforms

4. Expand export compliance licenses (C8000V-HSEC)

Cloud marketplace offers

AWS marketplace
Azure marketplace
GCP marketplace
Cisco Catalyst 8000V TAC support product IDs

Cisco and partner services

Cisco Capital

Ordering information

For more information

4. Expand export compliance licenses (C8000V-HSEC)

When you choose a Cisco DNA subscription license greater than or equal to 250M, 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/sle_routing/b-cisco-smart-licensing-enhanced-routing.pdf 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.

Contents

The gateway to your intent-based WAN network is here

Ordering Cisco Catalyst 8000V Edge Software

Working with the L-DNA-C8000V license

1. Select the platform
2. Select the software mode (management mode)
3. Choose the Cisco DNA subscription SKU

Cisco DNA subscription applicability matrix for Catalyst 8000V platforms

4. Expand export compliance licenses (C8000V-HSEC)

Cloud marketplace offers

- AWS marketplace
- Azure marketplace
- GCP marketplace
- Cisco Catalyst 8000V TAC support product IDs

Cisco and partner services

Cisco Capital

Ordering information

For more information

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.

Figure 6. Selecting Catalyst 8000V AWS AMI

	Hourly	Annual	
<input type="radio"/> c4.8xlarge		\$2.492	\$4.083
<input checked="" type="radio"/> c5.large ★Vendor Recommended		\$1.772	\$1.857
<input type="radio"/> c5.xlarge		\$1.91	\$2.08
<input type="radio"/> c5.2xlarge		\$2.492	\$2.832
<input type="radio"/> c5.4xlarge		\$3.12	\$3.80
<input type="radio"/> c5.9xlarge		\$3.12	\$4.65

AWS supported instances:

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

Contents

The gateway to your intent-based WAN network is here

Ordering Cisco Catalyst 8000V Edge Software

Working with the L-DNA-C8000V license

1. Select the platform
2. Select the software mode (management mode)
3. Choose the Cisco DNA subscription SKU

Cisco DNA subscription applicability matrix for Catalyst 8000V platforms

4. Expand export compliance licenses (C8000V-HSEC)

Cloud marketplace offers

- AWS marketplace
- Azure marketplace
- GCP marketplace
- Cisco Catalyst 8000V TAC support product IDs

Cisco and partner services

Cisco Capital

Ordering information

For more information

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

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

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	\$0.146	\$1.772	\$1.918	\$1,426.992
DS3V2*	General Purpose	4	14GB	28GB	SSD	\$0.293	\$1.91	\$2.203	\$1,639.032
DS4V2*	General Purpose	8	28GB	56GB	SSD	\$0.585	\$2.492	\$3.077	\$2,289.288
F32SV2*	Compute Optimized	32	64GB	256GB	SSD	\$1.632	\$3.12	\$4.752	\$3,535.488
F16SV2*	Compute Optimized	16	32GB	128GB	SSD	\$0.816	\$2.492	\$3.308	\$2,461.152

*Premium storage is available for this type of virtual machine. [Learn more](#)

Azure supported instances:

General deployment: Controller mode and Autonomous mode

- DS2V2 vWAN only
- DS3V2
 - D4V3
 - D8V3
- DS4V2
- F16SV2
- F32SV2

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

Contents

The gateway to your intent-based WAN network is here

Ordering Cisco Catalyst 8000V Edge Software

Working with the L-DNA-C8000V license

1. Select the platform
2. Select the software mode (management mode)
3. Choose the Cisco DNA subscription SKU

Cisco DNA subscription applicability matrix for Catalyst 8000V platforms

4. Expand export compliance licenses (C8000V-HSEC)

Cloud marketplace offers

AWS marketplace
Azure marketplace
GCP marketplace
Cisco Catalyst 8000V TAC support product IDs

Cisco and partner services

Cisco Capital

Ordering information

For more information

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

Services from Cisco and our certified partners can help you reduce the cost and complexity of branch-office deployments. Cisco Smart Net Total Care® technical support for the Cisco Catalyst 8000 Series Edge Platforms is available on a one-time or annual contract basis. Support options range from help-desk assistance to proactive, onsite consultation.

For more information, visit <https://www.cisco.com/c/en/us/services/overview.html>.

Cisco Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital® financing makes it easier to get the right technology to achieve your objectives, enable business transformation, and stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services, and complementary third-party equipment in easy, predictable payments. [Learn more.](#)

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.