

Cisco Catalyst 8300 Series Edge uCPE

August 2024



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The Cisco Catalyst™ 8300 Series Edge uCPE (universal Customer Premises Equipment) is designed for branch virtualization, allowing consolidation of network and security functions, simplifying network management, and reducing truck rolls for delivery of add-on services.



Figure 1. The Cisco Catalyst 8300 Series Edge uCPE

With eight x86 CPU cores with hardware acceleration for IPsec crypto traffic, the Catalyst 8300 Series Edge uCPE enables branches to run multiple Virtual Network Functions (VNFs).

Along with a higher number of WAN ports, the platform includes one Network Interface Module (NIM) slot for additional WAN and LAN modules as well as a Pluggable Interface Module (PIM) slot for wireless WAN modules for LTE Advanced and LTE Advanced Pro capabilities.

Table 1. Product ID for the Cisco Catalyst 8300 Series Edge uCPE Platform

Product ID	Description
C8300-UCPE-1N20	Catalyst 8300 Series Edge uCPE platform with 1 NIM and 1 PIM slot, 20-core Intel, 32-GB DRAM default

The Cisco Catalyst 8300 Series Edge uCPE Platform must be ordered with a mandatory Cisco DNA subscription license, along with the chassis for running Cisco Catalyst 8000V Edge Software as the routing VNF in either traditional routing or Catalyst SD-WAN mode.

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

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Ordering Cisco Catalyst 8300 Series Edge uCPE Platforms

The Catalyst 8300 Series Edge uCPE platform with mandatory Cisco DNA subscriptions can be ordered in two ways:

Option 1: Order the Cisco DNA subscription and hardware with a single SKU

or

Option 2: Order the Cisco DNA subscription and hardware separately as follows:

1. Configure the hardware
2. Order the Cisco DNA subscriptions separately using L-DNA-C8000V

Option 1: Order the Cisco DNA subscription and hardware with a single SKU

Use the Product ID C8300-UCPE-1N20 (as shown in Table 1) to configure both hardware and Cisco DNA subscriptions together.

Step 1. Configure the hardware

The Cisco Catalyst 8300 Series Edge uCPE consists of one chassis that offers six LAN/WAN ports, with one 20-core Intel® processor for hosting multiple VNFs on Cisco® Enterprise Network Function Virtualization Infrastructure Software (NFVIS). Use the following guidelines to configure the hardware chassis as necessary with supported options for DRAM, disk drives, NIM, and PIM.

A. Choose the software operating system

The Catalyst 8300 Series Edge uCPE platform includes a unified Cisco Catalyst 8000V Edge Software image that supports Cisco IOS® XE based traditional deployments and IOS XE SD-WAN deployments in a single binary image. The minimum version supported for all deployment types is Cisco IOS XE Unified Release 17.12.1. The software image Product ID (PID) nomenclature, explained in Figure 2, can help you understand what to order based on your requirements.

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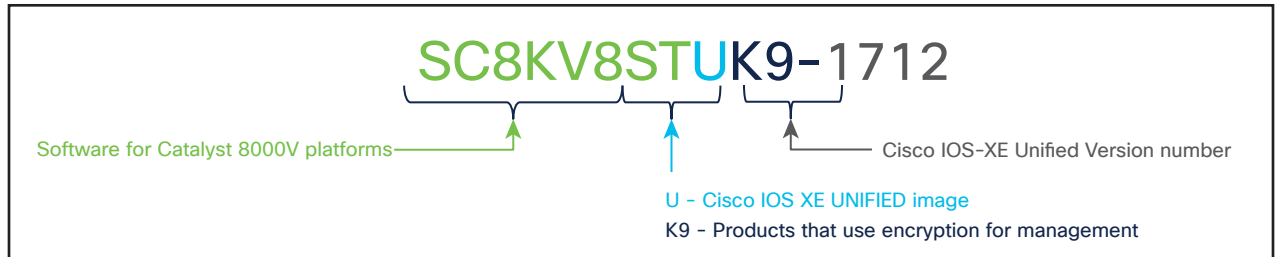


Figure 2. Catalyst 8000V Software PID nomenclature

Figure 3 shows a screen capture of what it looks like to select the software operating system in Cisco Commerce (CCW).

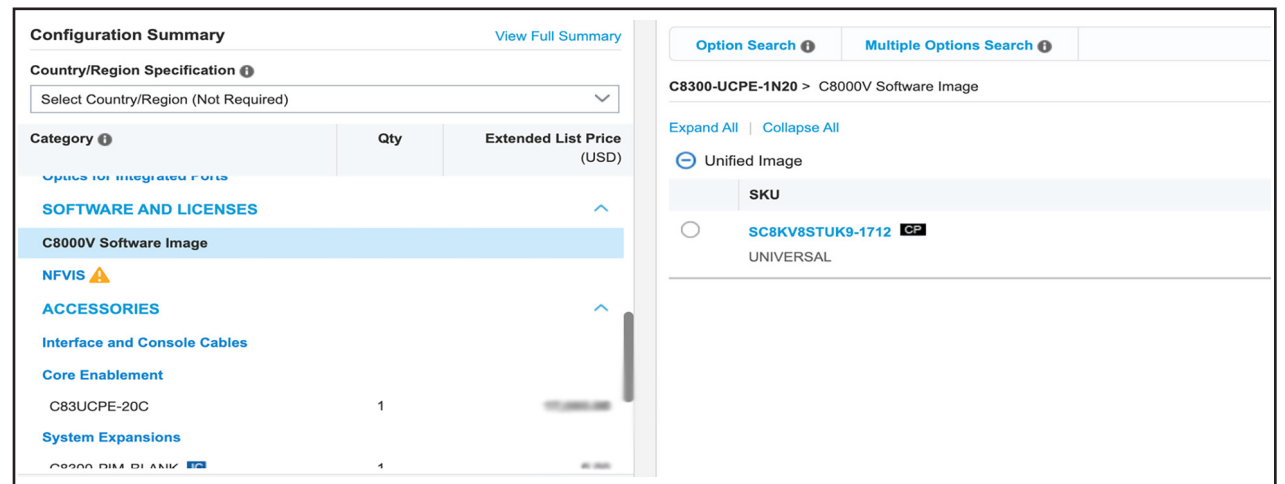


Figure 3. Software image ordering in CCW

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B. Choose the NFVIS version

It is mandatory to choose the NFVIS hypervisor layer with every Catalyst 8300 Series Edge uCPE platform. Currently, NFVIS version 4.12 is selected by default.

The screenshot displays the configuration interface for a Catalyst 8300 Series Edge uCPE platform. On the left, the 'Configuration Summary' pane shows a table with columns for 'Category', 'Qty', and 'Extended List Price (USD)'. The 'SOFTWARE AND LICENSES' section is expanded, showing 'C8000V Software Image' with 'NFVIS' selected. Below this, 'ACCESSORIES' and 'System Expansions' are also visible. On the right, the 'Option Search' pane shows the path 'C8300-UCPE-1N20 > NFVIS'. Under the 'SKU' section, 'SW-NFVIS-4.12-K9' is selected as the default option, with a note indicating 'NFV Infrastructure Software Version 4.12'.

C. Choose the system memory and storage

DRAM: The Catalyst 8300 Series Edge uCPE platforms ship with a default 32-GB DRAM. You can also upgrade to 128 GB (4 x 32 GB) by choosing a single DIMM slot or 2 DIMM slots, respectively. Table 2 outlines the DRAM options.

Table 2. Part numbers for selecting DRAM

DRAM part numbers	SPARE DRAM part numbers	DIMM slots
MEM-C8300-16GB	MEM-C8300-16GB=	2 or 4
MEM-C8300-32GB (default)	MEM-C8300-32GB=	1, 2 or 4

Storage can be an M.2 form factor or a 2.5-inch disk drive storage form factor.

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M.2 storage: The 8300 Series Edge uCPE ships with a default of 600-GB M.2 USB storage. Optionally, you can choose a 75-GB or 2-TB M.2 Nonvolatile Memory Express (NVMe) SSD for storage.

U.2 NVMe SSD Storage: The 8300 Series Edge uCPE supports additional U.2 Disk drive storage other than the M.2 Storage: 2 TB or 4 TB (up to 2 units).

Table 3 outlines the various M.2 options and Disk drive options available at the time of ordering as well as the spare part numbers.

Table 3. Part numbers for selecting M.2 USB/SSD storage and Disk drive Storage options

M.2 storage part numbers	SPARE M.2 storage part numbers	Disk Drive part numbers	SPARE Disk drive part numbers
M2USB-75G	M2USB-75G=	E-SSD-U2N-2TB	E-SSD-U2N-2TB=
SSD-M2SED-600G (default)	SSD-M2SED-600G=	E-SSD-U2N-4TB	E-SSD-U2N-4TB=
SSD-M2SED-2T	SSD-M2SED-2T=		

D. Choose the network modules

The Catalyst 8300 Series Edge uCPE includes one NIM slot for WAN and LAN modules as well as one PIM slot for wireless WAN modules for LTE Advanced and LTE Advanced Pro capabilities.

With NFVIS 4.12 we do not support any NIMs or PIMs. This section will be updated when NIMs and PIMs are supported at the appropriate release.

E. Choose the power supplies and cables

The Cisco Catalyst 8300 Series Edge uCPE, by default, ships with two power supplies for redundancy. This can either be an AC or DC power supply.

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Table 4. AC and DC power supply options for Catalyst 8300 Series Edge uCPE platforms

Product ID	Power supply part numbers	Description	SPARE power supply part numbers
C8300-UCPE-1N20	PWR-CC1-400WAC	Cisco Catalyst 8300 1RU AC power supply	PWR-CC1-400WAC=
C8300-UCPE-1N20	PWR-CC1-400WDC	Cisco Catalyst 8300 1RU DC power supply	PWR-CC1-400WDC=

F. Included in the purchase

Table 5 lists the default system accessories that ship with the Catalyst 8300 Series Edge uCPE platforms, as well as optional accessories customers can choose.

Table 5. Default system accessories and optional accessories and spares for Catalyst 8300 Series Edge uCPE

Product ID	Default accessory part numbers	Description	Spare accessory part numbers
C8300-UCPE-1N20	C8300-RM-19-1R	Cisco Catalyst 8300 rack-mount kit - 19 1R	C8300-RM-19-1R=
	C83UCPE-20C	20-core enablement	N/A

* The NIM and PIM blanks are automatically included only when there are no NIMs and PIMs ordered, respectively.

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Step 2. Configure the Cisco DNA subscription

Under the Subscriptions section of the Hardware SKU, that is, C8300-UCPE-1N20, select the required Cisco DNA subscription part number (e.g., DNA-A-T3-P-3Y).

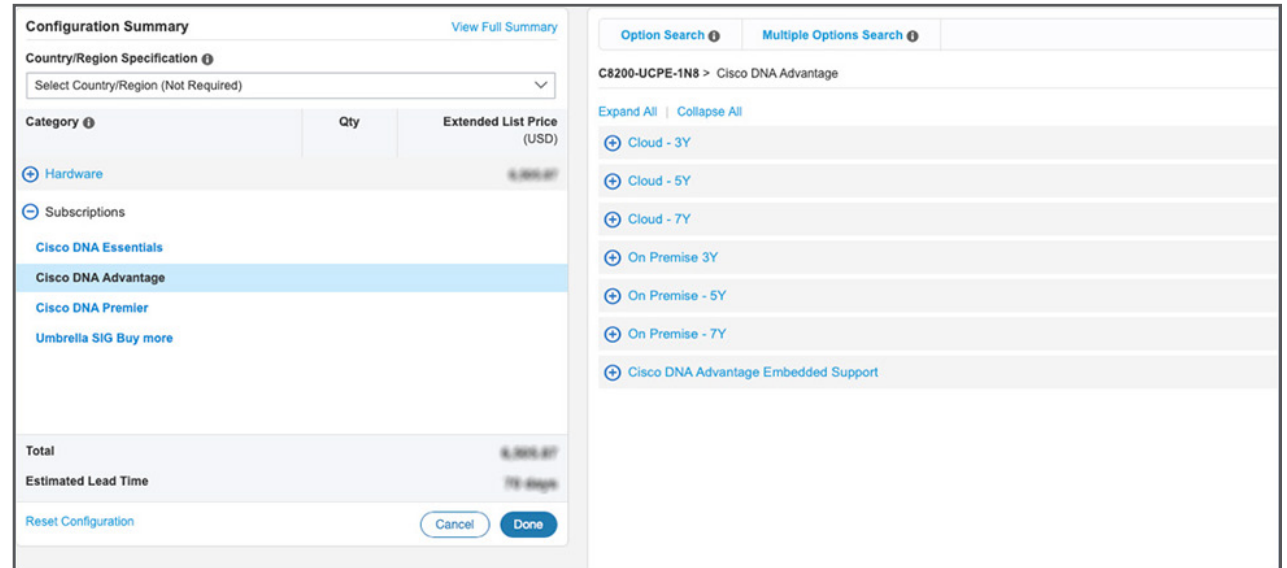


Figure 4. Cisco DNA subscription selection under the Hardware SKU in CCW

Option 2: Order the Cisco DNA subscription and hardware separately

Order the hardware system and Cisco DNA subscription separately. That is, order the hardware through the SKU C8300-UCPE-1N20, and later order Cisco DNA subscriptions separately through the SKU L-DNA-C8000V.

Step 1. Order the hardware

To order the hardware platform, follow all the steps mentioned in Option 1, except do not select the Cisco DNA subscription (step 2).

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Figure 5 provides an overview of ordering the hardware system and Cisco DNA subscription separately.

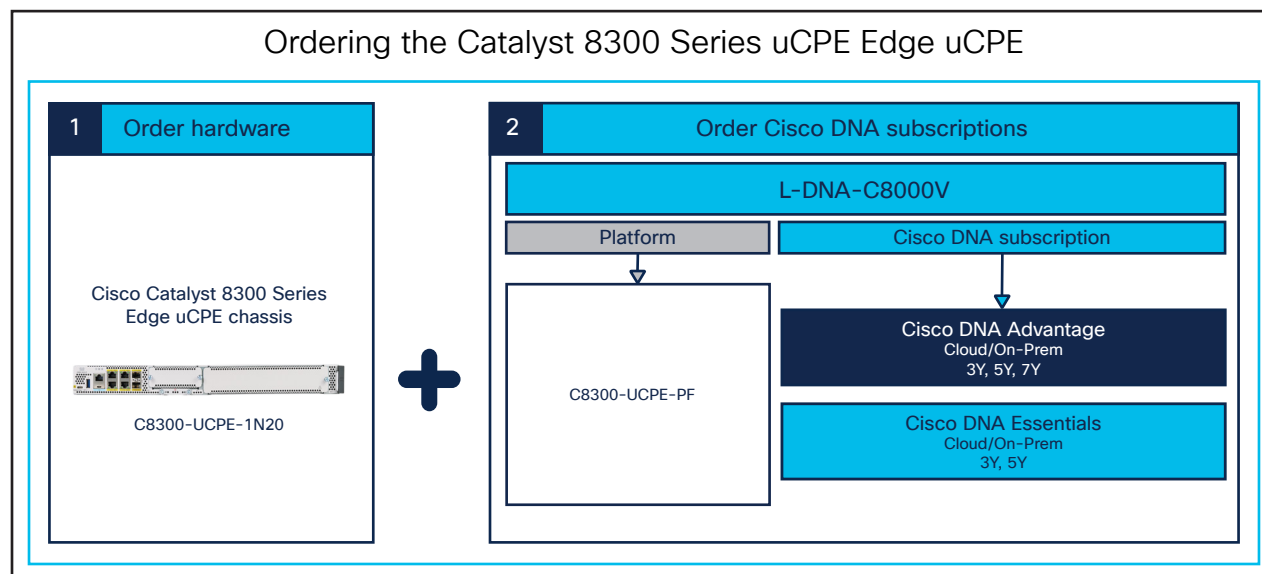


Figure 5. Ordering process overview for option 2

Step 2. Order Cisco DNA subscriptions

The Catalyst 8300 Series Edge uCPE 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 ONLY for the subscription functionality (Cisco Catalyst SD-WAN Manager, Cisco Catalyst SD-WAN Controller, Cisco Catalyst SD-WAN Validator, Cisco Catalyst SD-WAN Analytics, Cisco Umbrella®, Cisco SIG Essentials, etc.) enabled by the Cisco DNA subscriptions (Cisco DNA Essentials or Advantage). Use the part number shown in Table 6 to order subscription licenses for the Catalyst 8000V hosted on the Catalyst 8300 Series Edge uCPE.

For a more detailed overview of Cisco licensing, go to cisco.com/go/licensingguide.

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Table 6. Cisco DNA subscription license part number for the Catalyst 8000V running on edge platforms

Part number	Description
L-DNA-C8000V	Cisco DNA subscriptions for Cisco Catalyst 8000V Edge Software and associated platforms

Note: For a general overview of Cisco DNA subscriptions, refer to the [Cisco DNA Software for SD-WAN and Routing](#) Ordering Guide.

Working with L-DNA-C8000V

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

- A. Select the platform.
- B. Select the software mode (management mode).
- C. Choose the Cisco DNA subscription SKU (e.g., DNA-C-T2-A-3Y).
- D. Export compliance expansion (C8000V-HSEC).

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A. Select the platform

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

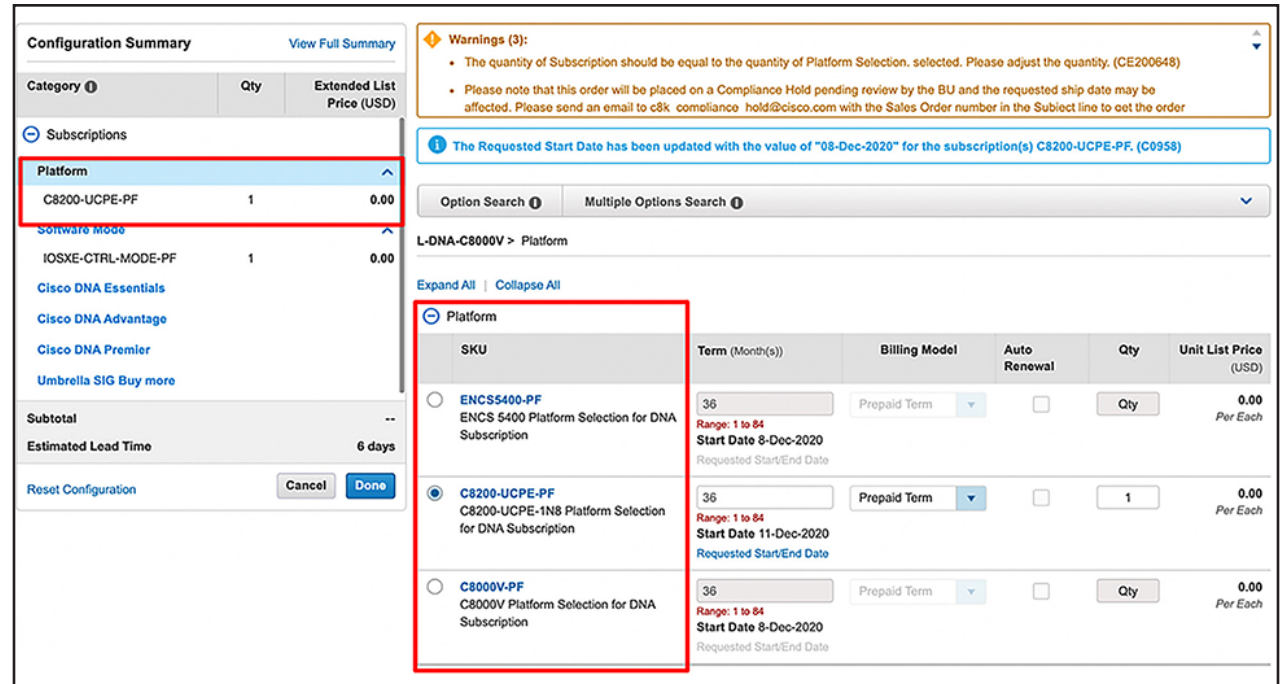


Figure 6 Platform selection

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B. Select the software mode (management mode)

Select your preferred software mode (refer to Table 2), which indicates the management type used for the Catalyst 8300 Series Edge uCPE platforms (as shown in the following screen shot).

Configuration Summary [View Full Summary](#)

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	
Reset Configuration	Cancel	Done

Warnings (3):

- The quantity of Subscription should be equal to the quantity of Platform Selection. selected. Please adjust the quantity. (CE200648)
- 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 get the order

The Requested Start Date has been updated with the value of "08-Dec-2020" for the subscription(s) C8200-UCPE-PF. (C0958)

Option Search Multiple Options Search

L-DNA-C8000V > Software Mode

Expand All Collapse All

Software Mode

SKU	Term (Month(s))	Billing Model	Auto Renewal	Qty	Unit List Price (USD)
<input checked="" type="radio"/> IOSXE-CTRL-MODE-PF IOS XE SD-WAN boot up mode for Unified image -Deployment Opt	36 Range: 1 to 84 Start Date 11-Dec-2020 Requested Start/End Date	Prepaid Term	<input type="checkbox"/>	1	0.00 Per Each/36 Month(s)
<input type="radio"/> IOSXE-AUTO-MODE-PF IOS XE Autonomous boot up mode for Unified image	36 Range: 1 to 84 Start Date 8-Dec-2020 Requested Start/End Date	Prepaid Term	<input type="checkbox"/>	1	0.00 Per Each/36 Month(s)

Figure 7. Software mode selection

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C. Choose the Cisco DNA subscription SKU

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

The screenshot displays the Cisco configuration interface for selecting a DNA subscription SKU. It features a 'Configuration Summary' table, a 'Warnings' section, and a list of subscription options for 'L-DNA-C8000V'.

Category	Qty	Extended List Price (USD)
Cisco DNA Essentials		
Cisco DNA Advantage		
DNA-C-T1-A-3Y	1	6,888.00
SVS-CDNA-T1-A3Y	1	987.00
Cisco DNA Premier		
Umbrella SIG Buy more		
EXPANSION		
SDWAN-UMB-ADV	1	8.00
SDWAN-CLOUD-PF	1	8.00
Subtotal		..
Estimated Lead Time		6 days

Warnings (2):

- 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 get the order release. (CE202225)

The Requested Start Date has been updated with the value of "08-Dec-2020" for the subscription(s) C8200-UCPE-PF, IOSXE-CTRL-MODE-PF (C0958)

L-DNA-C8000V > Cisco DNA Advantage

- Expand All | Collapse All
- Cloud - 7Y
- On Premise - 7Y
- Cisco DNA Advantage Embedded Support
- Cloud - 3Y
- Cloud - 5Y
- On Premise 3Y
- On Premise - 5Y

Figure 8. Cisco DNA subscription SKU selection

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Table 7 provides the details of the subscription bandwidth tiers.

Table 7. Cisco DNA subscription applicability matrix for Catalyst 8000V-based platforms

Platforms	T0 (Up to 50M Agg.)	T1 (Up to 400M Agg.)	T2 (Up to 2G Agg.)	T3 (Up to 20G Agg.)	T4 (Up to 50 Gbps Agg.)
C8000V-PF	✓ Advantage ✓ Essentials	✓ Advantage ✓ Essentials	✓ Advantage ✓ Essentials	✓ Advantage	✓ Advantage
C8300-UCPE-1N20	✓ Advantage ✓ Essentials	✓ Advantage ✓ Essentials	✓ Advantage ✓ Essentials	✓ Advantage	
ENCS5400-PF* C8200-UCPE-PF**	✓ Advantage ✓ Essentials	✓ Advantage ✓ Essentials	✓ Advantage ✓ Essentials		

✓ Advantage ✓ Essentials

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

**The C8300-UCPE-PF Platform is recommended for up to 6Gbps.

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

Figure 9 provides a breakdown of how to read the Cisco DNA subscription tier SKUs.

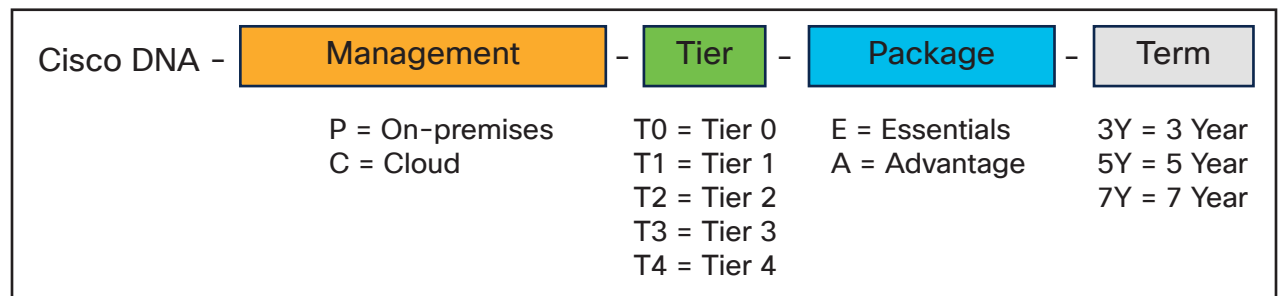


Figure 9. How to read the Cisco DNA subscription tier SKUs in Table 8

See Table 8 for the applicable subscription SKUs for these tiers.

Table 8. Cisco DNA Essentials and Advantage subscription tiers applicable for all Catalyst 8000 edge platforms

Platform	Subscription Package Tier	Tier 0 Up to 50 Mbps Agg.	Tier 1 Up to 400 Mbps# Agg.	Tier 2 Up to 2 Gbps Agg.	Tier 3 Up to 20 Gbps Agg.	Tier 4 Up to 50 Gbps 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-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-T1-E-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 DNA-P-T2-E-7Y			3Y, 5Y, 7Y
C8300-UCPE-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		3Y, 5Y, 7Y

Platform	Subscription Package Tier	Tier 0 Up to 50 Mbps Agg.	Tier 1 Up to 400 Mbps# Agg.	Tier 2 Up to 2 Gbps Agg.	Tier 3 Up to 20 Gbps Agg.	Tier 4 Up to 50 Gbps Agg.	Term
	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-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-T1-E-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 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.	Term
C8200-UCPE-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*	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-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-T1-E-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 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.	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-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-C-T0-E-7Y DNA-P-T0-E-3Y DNA-P-T0-E-5Y DNA-P-T0-E-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-T1-E-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** DNA-P-T2-E-7Y**	3Y, 5Y, 7Y

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

** The C8200-UCPE-PF Platform is recommended for up to 500-Mbps aggregate throughput.

One-way encrypted traffic must be less than 250 Mbps for Tier 1 bandwidth license.

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

D. Export compliance expansion (C8000V-HSEC)

When you choose a Cisco DNA subscription license greater than or equal to 250 Mbps, the C8000V-HSEC SKU is automatically expanded. This is not an HSEC license by itself; rather, it entitles the customer for a HSEC license.

Refer to [Smart Licensing Using Policy for Cisco Enterprise Routing Platforms](#) for information on generating SLAC-based HSEC licenses for Catalyst 8000V.

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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 8300 Series Edge uCPE 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>.

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Ordering information

To place an order, visit the [Cisco Ordering homepage](#). To download software, visit the Cisco Software Center <https://software.cisco.com/>.

Warranty information

Cisco Catalyst 8300 Series Edge uCPE comes standard with a Cisco limited 1-year return-to-factory hardware warranty. For more information, refer to: <https://www.cisco.com/c/en/us/products/warranties/warranty-c99-744450.html>.

For more information

For more information about the Cisco Catalyst 8300 Series, visit: <https://www.cisco.com/site/us/en/products/networking/sdwan-routers/catalyst-8300-series-edge-ucpe/index.html> or contact your local Cisco account representative.