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Cisco Catalyst 8200 Edge uCPE

March 2024

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Figure 1. The Cisco Catalyst 8200 Series Edge uCPE (Universal Customer Premises Equipment)

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The Cisco Catalyst 8200 Series Edge uCPE (universal Customer Premises Equipment) is designed for branch virtualization, allowing consolidation of network and security functions, simplify network management, and reduce truck rolls for delivery of add-on services.

With eight x86 CPU cores with hardware acceleration for IPsec crypto traffic, the Catalyst 8200 uCPE enables branches to run multiple VNFs.

Along with a higher number of WAN ports, the platform includes one NIM slot for additional WAN and LAN modules as well as a PIM slot for Wireless WAN modules for LTE Advanced and LTE Advanced Pro capabilities.

Table 1. Product IDs of Cisco Catalyst 8200 Edge uCPE Platform

Product ID	Description
C8200-UCPE-1N8	Catalyst 8200-Edge uCPE platform with 1 NIM and 1 PIM slot, 8-core Intel, 16G DRAM default

The Cisco Catalyst 8200 Edge uCPE Platform must be ordered with a mandatory Cisco DNA subscription license along with the chassis for running Cisco Catalyst 8000V as the routing VNF in either traditional routing or 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 8200 Edge uCPE Platforms

Catalyst 8200 Edge uCPE platform with mandatory Cisco DNA subscriptions can be ordered in two ways:

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

or

Option 2: Order Cisco DNA Subscription and hardware separately

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

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

Use the Product ID C8200-UCPE-1N8 (as shown in table 1) to configure both hardware and Cisco DNA subscriptions together.

Step 1. Configure hardware

The Cisco Catalyst 8200 Edge uCPE consists of one chassis which offers 8 LAN ports, 6 WAN ports, with one 8 core Intel processer for hosting multiple VNF on NFVIS. Use the following guidelines to configure the hardware chassis as necessary with supported options for DRAM, Disk drives, NIM and PIM.

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A. Choose the software operating system

The Catalyst 8200 edge uCPE platforms include a Cisco unified C8000V Software image, which supports Cisco IOS XE based traditional deployments and IOS XE SD-WAN deployments in a single binary image. The minimum version supported for all the Catalyst 8200 edge uCPE is Cisco Unified IOS XE Release 17.4.1. The software image Product ID (PID) nomenclature, explained in Figure 2, can help you understand what to order based on your requirements.

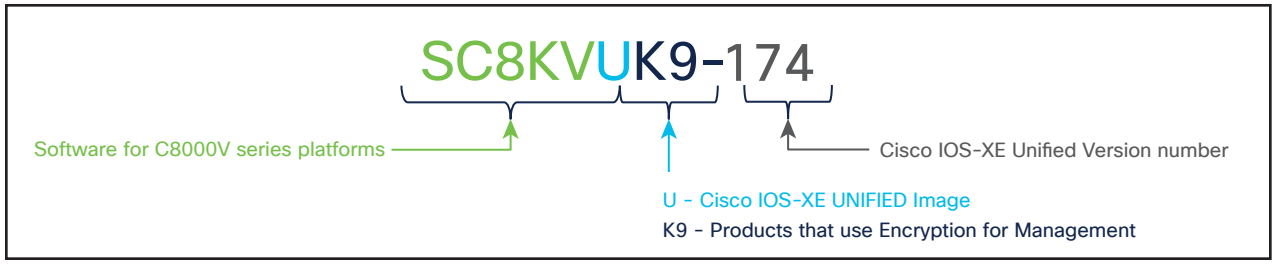

Figure 2. Catalyst 8000V Software PID nomenclature

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

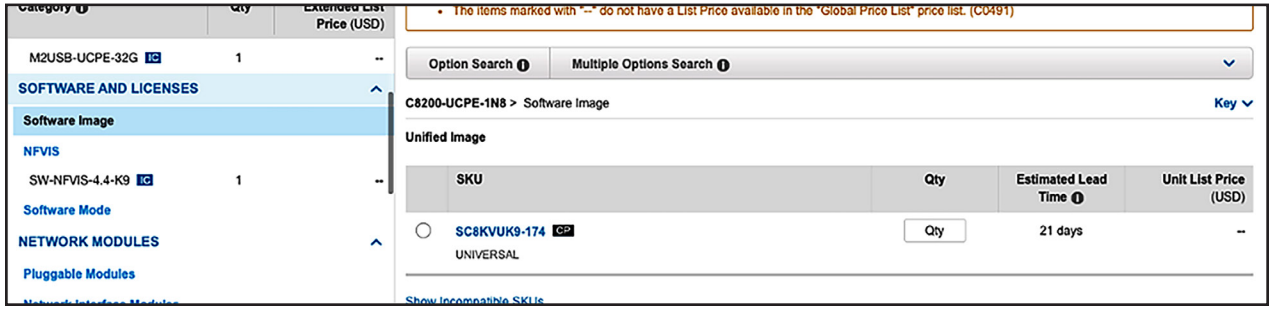

Figure 3. Software image ordering in CCW

B. Choose the NFVIS version

It is mandatory to choose the NFVIS hypervisor layer, with every 8200 uCPE. Currently NFVIS version 4.6 is selected by default.

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C. Choose the system memory and storage

DRAM – The Catalyst 8200 Edge uCPE platforms ship with a default 16 GB DRAM, with an option to downgrade to 8 GB on a single DIMM slot. You can also upgrade to 32 GB or 64 GB (2 * 32GB) by choosing 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-C8200-8GB	MEM-C8200-8GB=	1
MEM-C8200-16GB (default)	MEM-C8200-16GB=	1
MEM-C8200-32GB	MEM-C8200-32GB=	1 or 2

Storage can be a M.2 form factor or 2.5” disk drive storage form factor.

M.2 Storage – The 8200 uCPE ships with a default of 32 GB M.2 USB storage. Optionally, you can choose a 600 GB or 2TB M.2 Non-Volatile Memory Express (NVMe) SSD for storage.

Disk Drive Storage – The 8200 uCPE supports additional Disk drive storage other than the M.2 Storage.

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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-32G (default)	M2USB-32G=	HDD-SATA-1TB	HDD-SATA-1TB=
SSD-M2NVME-600G	SSD-M2NVME-600G=	HDD-SATA-2TB	HDD-SATA-2TB=
SSD-M2NVME-2T	SSD-M2NVME-2T=	SSD-SATA-480G	SSD-SATA-480G=
		SSD-SATA-960G	SSD-SATA-960G=
		SSD-SATA-4T	SSD-SATA-4T=

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D. Choose the Network modules

The Catalyst 8200 Edge uCPE includes one NIM slot for WAN and LAN modules as well as a PIM slot for Wireless WAN modules for LTE Advanced and LTE Advanced Pro capabilities.

Table 4 provides a summary of all NIMs and PIMs supported on the Catalyst 8200 Edge uCPE platforms.

Table 4. NIM and PIM modules supported on all Catalyst 8200 Edge uCPE platforms

LTE modules (PIM and NIM)	NIM data and LAN switching
P-LTEA-LA	NIM-ES2-4
P-LTEA-EA	NIM-ES2-8
P-LTEAP18-GL	NIM-ES2-8-P
NIM-LTEA-LA	NIM-1T
NIM-LTEA-EA	NIM-2T
	NIM-4T
	NIM-VA-B
	NIM-VAB-A
	NIM-VAB-M
	NIM-4SHDSL-EA

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E. Choose the power supplies and cables

The Cisco Catalyst 8200 Edge uCPE, by default, ships with an internal 100W AC Power supply. If you are using NIM-ES2-8-P NIM then select PWR-CC1-150WAC for POE power. Do ensure that C15 Power cables are chosen for PWR-CC1-150WAC.

Table 5. AC and PoE power supply options for Catalyst 8200 edge uCPE platforms

Product ID	Power supply part numbers	Description	SPARE PS part numbers
C8200-uCPE-1N8	PWR-CC1-150WAC	150 watts AaaaaaaC power supply (default)	PWR-CC1-150WAC=

F. Included in the purchase

Table 6 includes the default system accessories that ship with Catalyst 8200 Edge uCPE platforms, as well as optional accessories customers can choose.

Table 6. Default system accessories and optional accessories and spares for Catalyst 8200 edge uCPE

Product ID	Default accessories part numbers	Description	Spare accessories part numbers
C8200-uCPE-1N8	C8200-RM-19-1R	Cisco Catalyst 8200 rack-mount kit – 19 inches for 1RU	C8200-RM-19-1R=
	FL-NFVIS-BASE/K9	NFVIS Base license	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 Cisco DNA subscription

Under the Subscriptions section of the Hardware Platform SKU i.e. C8200-UCPE-1N8, select the required Cisco DNA subscription part number (e.g. DNA-A-T3-P-3Y).

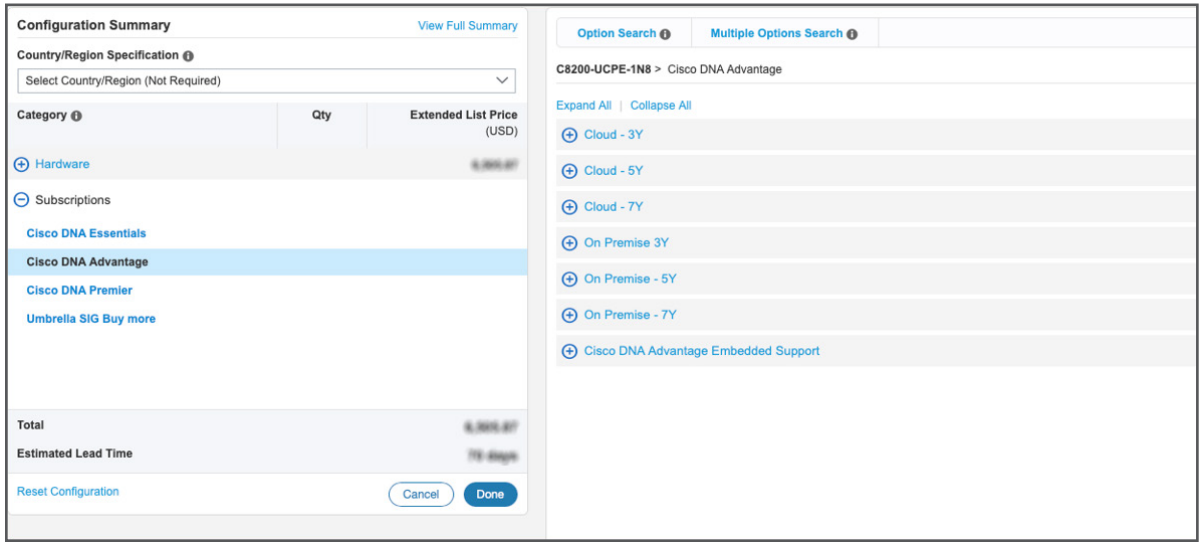

Figure 4. Cisco DNA subscription selection under hardware platform in CCW

Option 2: Order Cisco DNA subscription and hardware separately

Order hardware system and Cisco DNA subscription separately i.e. order hardware system through SKU: C8200-UCPE-1N8 and later order Cisco DNA subscriptions separately through SKU: L-DNA-C8000V.

Step 1. Order hardware system

To order hardware platform, follow all the steps mentioned in Option 1, except selection of the Cisco DNA subscription (step 1).

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

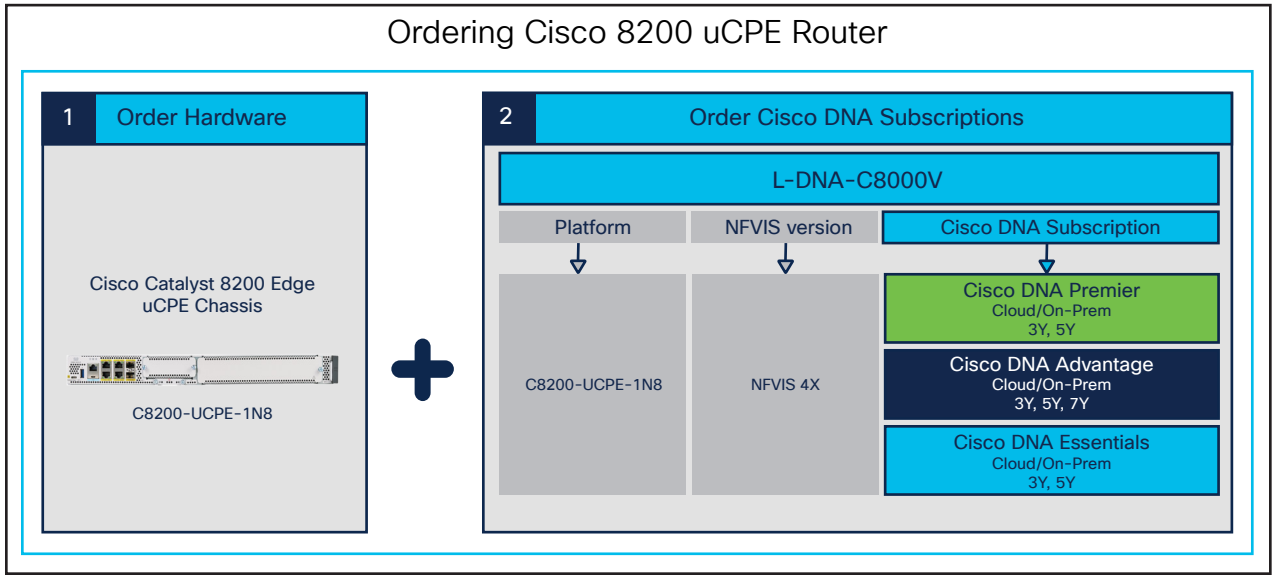

Figure 5. Ordering process overview for option 2

Step 2. Order Cisco DNA subscriptions

The Catalyst 8200 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, 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, Advantage, and Premier). These services DO NOT cover the Network Stack.

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Use the part number mentioned in Table 7 to order subscription licenses for the Cisco Catalyst C8000V hosted on the Catalyst 8200 Edge uCPE.

For a more detailed overview on Cisco Licensing, go to cisco.com/go/licensingguide

Table 7. Cisco DNA subscription license part number for the C8000V running on edge platforms

Part number	Description
L-DNA-C8000V	Cisco DNA subscriptions for Cisco 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 L-DNA-C8000V

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

A. Platform Selection
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. Platform selection

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

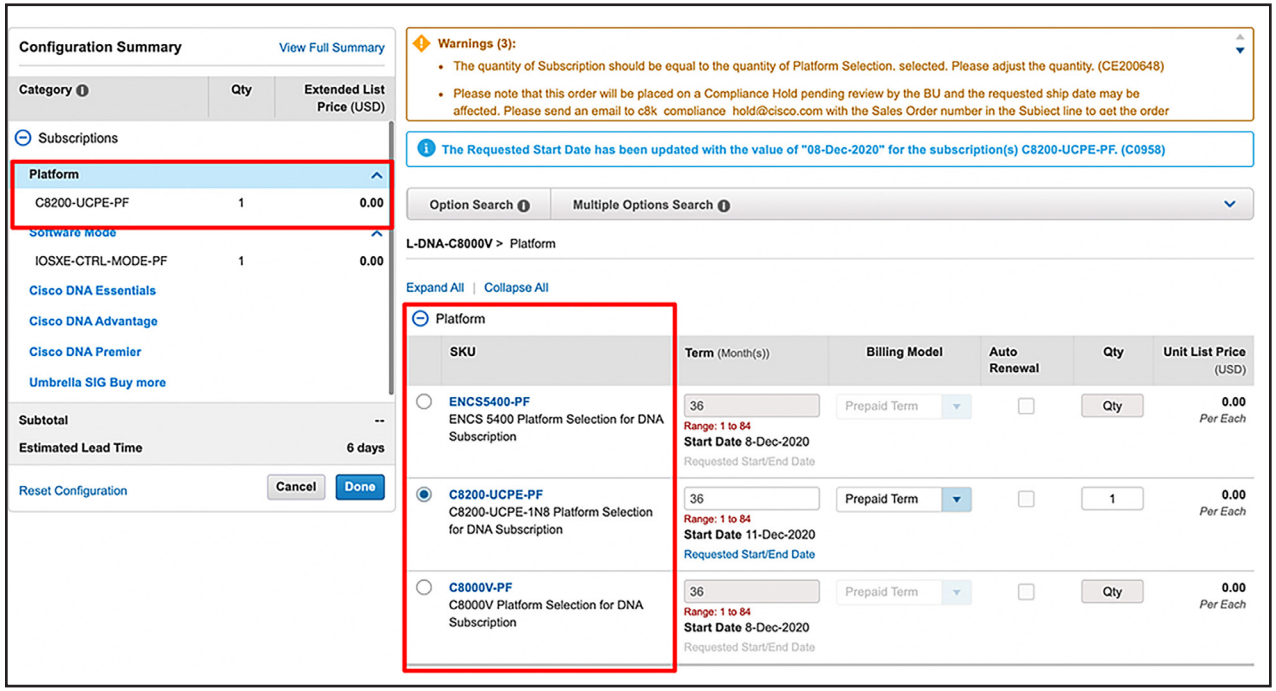

Figure 6. Platform Selection

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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 8200 Edge uCPE platforms (as shown in the following screenshot).

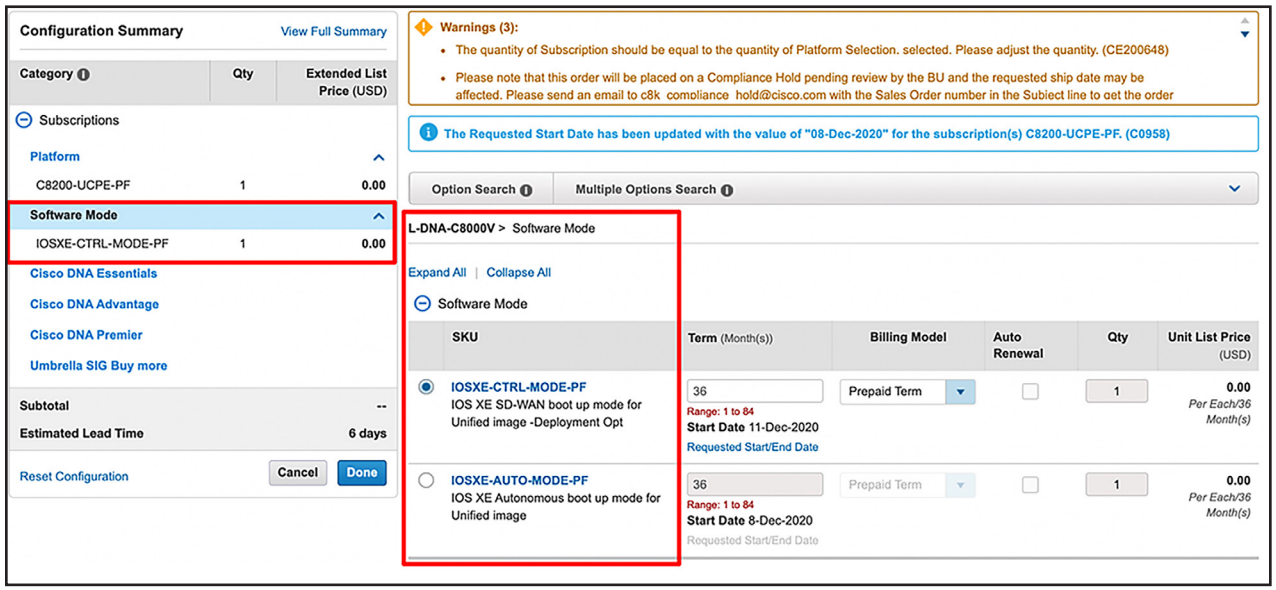

Figure 7. Software mode selection

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C. Choose the Cisco DNA subscription SKU

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

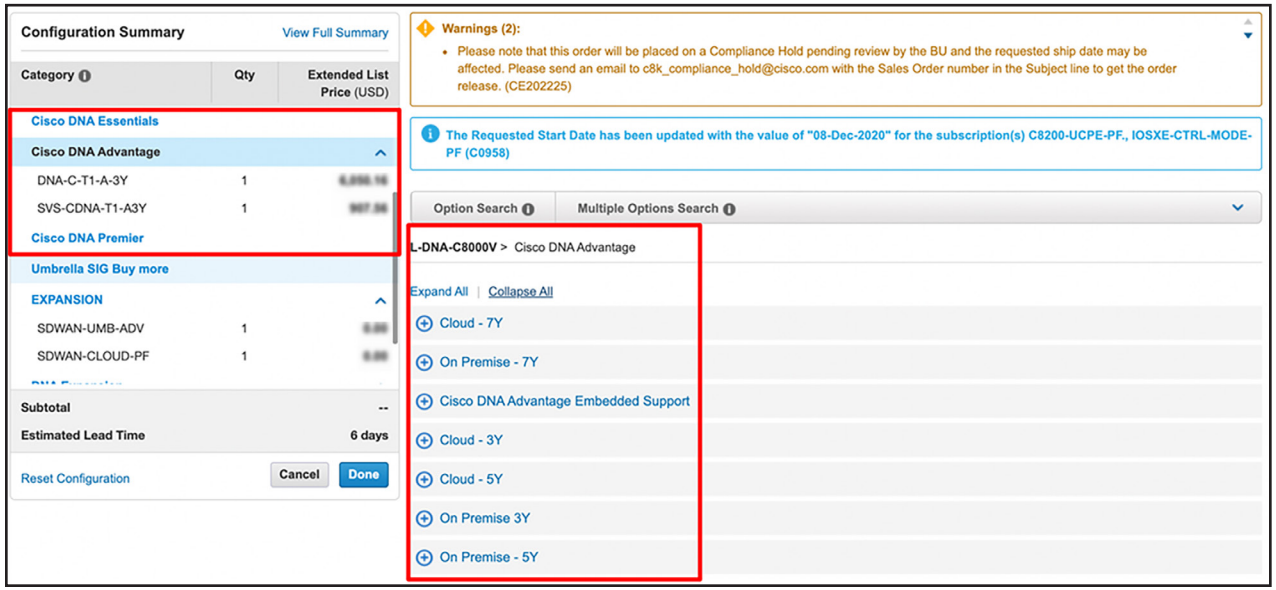

Figure 8. Cisco DNA Subscription SKU selection

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Cisco DNA Subscription applicability matrix for Catalyst 8000V

Figure 9 provides the details of 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 50 Gbps Agg.)
C8000V-PF	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓
ENCS5400-PF C8200-UCPE-PF	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		

✓ Premier ✓ Advantage ✓ Essentials

Figure 9. Cisco DNA subscription applicability matrix for Catalyst 8000V based platforms

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

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

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

Figure 10 provides a breakdown of how to read the Cisco DNA subscription tier SKUs.

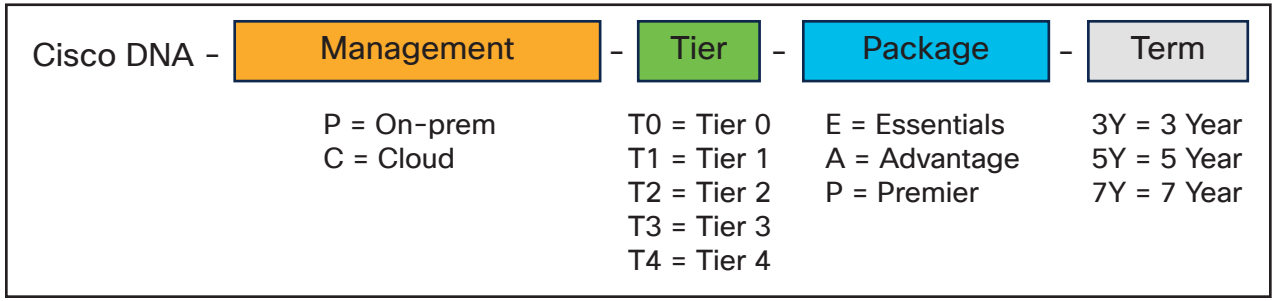

Figure 10. How to read the Cisco DNA subscription tier SKUs in Table 8

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

Table 8. Cisco DNA E/A/P 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 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	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-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

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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 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

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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 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

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

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

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

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

D. Export compliance expansion (C8000V-HSEC)

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

Refer here for generating SLAC based HSEC for C8000V.

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Cisco DNA Subscription applicability matrix for Catalyst 8000V

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Cisco and Partner Services

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.
- **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.
- Cisco 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.

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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
- 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

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- 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.

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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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.

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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 8200 Edge uCPE come 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 8500 Series, visit: https://www.cisco.com/c/en/us/products/routers/8500-series-edge-routers/index.html or contact your local Cisco account representative.

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