

# Cisco SD-Access Ordering Guide

## Steps for ordering Cisco SD-Access

This section provides a simplified process for ordering the Cisco SD-Access solution:

1. Choose the required Cisco SD-Access platforms.
2. Choose the required software licenses to enable Cisco SD-Access functionality in the device and ISE, available either a-la-carte or with the purchase of Cisco DNA Premier.
3. Choose the required appliances – Cisco DNA Center (if applicable) and Cisco ISE  
**Note:** Cisco Prime® Infrastructure is not required for Cisco SD-Access.
4. Choose Cisco SD-Access professional services (optional but recommended).

## Cisco SD-Access platforms

This solution supports both current and next-generation network devices, including routers, switches, wireless controllers, and access points. Table 1 summarizes the platforms supported.

## Contents

- Steps for ordering Cisco SD-Access
- Cisco SD-Access platforms
- Cisco SD-Access software licenses
- Cisco Catalyst 9200L Series licenses
- Cisco Catalyst 9200 Series licenses
- Cisco Catalyst 9300 Series licenses
- Cisco Catalyst 9400 Series licenses
- Cisco Catalyst 9500 Series licenses
- Cisco Catalyst 3850 Series licenses
- Cisco Catalyst 3650 Series licenses
- Cisco Catalyst 3560-CX and Cisco Catalyst Digital Building Series licenses
- Cisco Catalyst 4500-E Series licenses
- Cisco Catalyst 6800 Series and 6500-E Series licenses
- Cisco Nexus 7700 Series licenses
- Cisco Industrial Ethernet 4000 Series licenses
- Cisco Industrial Ethernet 4010 Series licenses
- Cisco Industrial Ethernet 5000 Series licenses
- Cisco ISR, ASR, and CSR Series licenses
- Cisco Enterprise wireless licenses
- Promotional offers
- Cisco Identity Services Engine (ISE) licenses
- Cisco ISE Base session licensing
- ISE Plus session licensing
- Cisco SD-Access appliances
- Cisco Identity Services Engine appliances
- Cisco DNA Center appliances
- Professional and technical services
- For more information

Table 1. Cisco SD-Access platform support summary

<b>Fabric edge</b>	<ul style="list-style-type: none"> <li>Cisco Catalyst 9200 Series Switches</li> <li>Cisco Catalyst 9300 Series Switches</li> <li>Cisco Catalyst 9400 Series Switches (SUP-1, SUP-1XL, SUP-1XL-Y)</li> <li>Cisco Catalyst 3850 Series and 3650 Series Switches</li> <li>Cisco Catalyst 4500E Series Switches (Sup8E, Sup9E)</li> </ul>
<b>Fabric border and control plane</b>	<ul style="list-style-type: none"> <li>Cisco Catalyst 9300 Series Switches</li> <li>Cisco Catalyst 9500 Series Switches</li> <li>Cisco Catalyst 9400 Series Switches (SUP-1XL, SUP-1XL-Y)</li> <li>Cisco Catalyst 3850 Series</li> <li>Cisco Catalyst 6807-XL Switch (Sup6T, Sup2T)</li> <li>Cisco Catalyst 6500 Series Switches</li> <li>Cisco Catalyst 6880-X Switch</li> <li>Cisco Catalyst 6840-X Switch</li> <li>Cisco Nexus® 7700 Switch (Sup 2E, M3 line cards only) – Default/External Border Only</li> <li>Cisco 4400 and 4300 Series Integrated Services Routers</li> <li>Cisco ASR 1000 Series Aggregation Services Routers</li> </ul>
<b>Fabric Edge, Border and Control Plane</b>	<ul style="list-style-type: none"> <li>Cisco Catalyst 9300 Series Switches</li> <li>Cisco Catalyst 9400 Series Switches (SUP-1XL, SUP-1XL-Y)</li> <li>Cisco Catalyst 9500 Series Switches</li> </ul>
<b>Cisco SD-Access Extended Node</b>	<ul style="list-style-type: none"> <li>Cisco Catalyst 3560-CX Series</li> <li>Cisco Catalyst Digital Building Series Switches</li> <li>Cisco Industrial Ethernet 4000, 4010, 5000 Series</li> </ul>
<b>Cisco SD-Access Wireless</b>	<ul style="list-style-type: none"> <li>Wi-Fi 6 (802.11ax) access points: Cisco Catalyst 9120, 9117 and 9115</li> <li>Wi-Fi 5 (802.11ac Wave 2) access points: Cisco Aironet® 1800, 2800, 3800, 4800, 1540 and 1560 Series</li> <li>Catalyst Wireless Controllers: Cisco Catalyst 9800-40, 9800-80 and 9800-CL Series and Cisco Wireless Controllers: 3504, 5520 and 8540 Series</li> </ul>
<b>Cisco SD-Access Embedded Wireless</b>	<ul style="list-style-type: none"> <li>Cisco Catalyst 9300 Series Switches (Embedded Wireless with Cisco Catalyst 9800 software package upgrade)</li> </ul>

**Note:**

- Wave 1 access points do not support the following functions when deployed for Cisco SD-Access: IPv6, Application Visibility and Control (AVC), NetFlow.
- A device cannot act as fabric edge and fabric border at the same time.
- A device can act as fabric border and fabric control plane at the same time.
- Cisco Catalyst 9400 Series Switches, and Cisco Catalyst 9500 Series Switches cannot be configured as Fabric-in-a-box.
- Embedded wireless can be enabled on Catalyst switches on two supported topologies:
  - Collocated Border and Control Plane
  - Fabric-in-a-box
- You can enable Cisco SD-Access Wireless on Cisco Catalyst 9800-CL Wireless Controller for private cloud running on VMWare ESXi, KVM, or Cisco ENCS.

Table 2. SD-Access fabric edge platform part numbers

Device role	Product family	Part number	Description
<b>Fabric edge node</b>	Cisco Catalyst 9200 Series	C9200-24T	24-port data switch
		C9200-24P	24-port data switch with full PoE+
		C9200-48T	48-port data switch
		C9200-48P	48-port data switch full PoE+
		C9200L-24T-4G	24-port data switch
		C9200L-24P-4G	24-port data switch with full PoE+
		C9200L-48T-4G	48-port data switch
		C9200L-48P-4G	48-port data switch full PoE+
		C9200L-24T-4X	24-port data switch
		C9200L-24P-4X	24-port data switch with full PoE+
		C9200L-48T-4X	48-port data switch
<b>Fabric edge node</b>	Cisco Catalyst 9300 Series	C9300-24T	24-port data switch
		C9300-48T	48-port data switch
		C9300-24P	24-port PoE+ switch
		C9300-48P	48-port PoE+ switch
		C9300-24U	24-port Cisco UPOE switch
		C9300-48U	48-port Cisco UPOE switch
		C9300-24UX	24-port Multigigabit Cisco UPOE switch
		C9300-48UXM	48-port Multigigabit Cisco UPOE switch

Device role	Product family	Part number	Description
Fabric edge node	Cisco Catalyst 9400 Series	C9404R/C9407R/C9410R with Supervisors	C9400 Supervisor engines
		C9400-SUP-1	Supervisor 1 Module
		C9400-SUP-1XL	Supervisor 1XL Module
		C9400-SUP-1XL-Y	Supervisor 1XL Module with 25G uplinks
		Line Cards:	
		C9400-LC-48U	48-port UPOE Gigabit Ethernet Switching Module
		C9400-LC-48UX	48-port UPOE MultiGigabit Ethernet Module
		C9400-LC-48T	48-port Gigabit Ethernet Module
		C9400-LC-24XS	24-port TenGigabit Ethernet Module with SFP/SFP+
		C9400-LC-48P	48-port Gigabit Ethernet PoE/PoE+ Module
		C9400-LC-24S	24-port Gigabit Ethernet SFP Module
		C9400-LC-48S	48-port Gigabit Ethernet SFP Module
		Fabric edge node	Cisco Catalyst 9500 Series
C9500-24Q	24-port 40 Gigabit Ethernet with QSFP+		
C9500-40X	40-port 10 Gigabit Ethernet with SFP+		
C9500-32C	32-port 100 Gigabit Ethernet High-performance switch		
C9500-32QC	32-port 40 Gigabit Ethernet High-performance switch		
C9500-48Y4C	48-port 25 Gigabit Ethernet High-performance switch		
C9500-24Y4C	24-port 25 Gigabit Ethernet High-performance switch		
C9500-16X	2 x 40 Gigabit Ethernet High-performance Network Module		

Device role	Product family	Part number	Description
<b>Fabric edge node</b>	Cisco Catalyst 3650 Series	WS-C3650-24TS	4 x Gigabit Ethernet with Small Form Factor Pluggable (SFP)
		WS-C3650-48TS	
WS-C3650-24PS			
WS-C3650-48PS			
WS-C3650-48FS			
WS-C3650-24TD		2 x 10 Gigabit Ethernet with SFP+ and 2 x 10 Gigabit Ethernet with SFP+ or 4 x Gigabit Ethernet with SFP	
WS-C3650-48TD			
WS-C3650-24PD			
WS-C3650-24PDM			
WS-C3650-48PD			
WS-C3650-48FD		24 PoE+ (with 8 100-Mbps and 1-, 2.5-, 5-, and 10-Gbps ports)	
WS-C3650-8X24PD		48 PoE+ (with 12 100-Mbps and 1-, 2.5-, 5-, and 10-Gbps ports)	
WS-C3650-12X48FD		4 x 10 Gigabit Ethernet with SFP+ or 4 x Gigabit Ethernet with SFP	
WS-C3650-48TQ			
WS-C3650-48PQ			
WS-C3650-48FQ			
WS-C3650-48FQM			
WS-C3650-8X24UQ			
WS-C3650-12X48UQ			
WS-C3650-12X48UR	8 x 10 Gigabit Ethernet with SFP+ or 8 x Gigabit Ethernet with SFP		
WS-C3650-12X48UZ	2 x 40 Gigabit Ethernet with QSFP+		
	Cisco Catalyst 4500 Series	WS X45-Sup9-E	Supervisor engine with 928 Gbps of wired access with an E-Series chassis
		WS X45-Sup8-E	Supervisor engine with 928 Gbps of wired access with an E-Series chassis

Device role	Product family	Part number	Description	
Fabric edge, control, or border nodes	Cisco Catalyst 3850 Series	WS-C3850-12S	12-port SFP switch	
		WS-C3850-24S	24-port SFP switch	
		WS-C3850-24T	24-port data switch	
		WS-C3850-48T	48-port data switch	
		WS-C3850-24P	24-port PoE+ switch	
		WS-C3850-48P	48-port PoE+ switch	
		WS-C3850-48F	48-port PoE+ switch	
		WS-C3850-24U	24-port Cisco UPOE switch	
		WS-C3850-48U	48-port Cisco UPOE switch	
		WS-C3850-24XU	24-port Cisco UPOE (100 Mbps/1/2.5/5/10 Gbps) switch	
		WS-C3850-12X48U	48-port Cisco UPOE (with 12x100 Mbps/1/2.5/5/10 Gbps ports) switch	
		WS-C3850-12XS	12-port 1/10G SFP+ switch	
		WS-C3850-24XS	24-port 1/10 Gbps SFP+ switch	
	Cisco Catalyst 9300 Series	C9300-24T	24-port data switch	
		C9300-48T	48-port data switch	
		C9300-24P	24-port PoE+ switch	
		C9300-48P	48-port PoE+ switch	
		C9300-24U	24-port Cisco UPOE switch	
		C9300-48U	48-port Cisco UPOE switch	
		C9300-24UX	24-port Multigigabit Cisco UPOE switch	
		C9300-48UXM	48-port Multigigabit Cisco UPOE switch	
	Cisco Catalyst 9400 Series	C9404R/C9407R/C9410R with Supervisors:	SUP-1XL	Supervisor 1XL Module
			SUP-1XL-Y	Supervisor 1XL Module with 25G Uplinks
		Line Cards:	▪ C9400-LC-48U	48-port UPOE Gigabit Ethernet Switching Module
			▪ C9400-LC-48UX	48-port UPOE MultiGigabit Ethernet Module
			▪ C9400-LC-48T	48-port Gigabit Ethernet Module
			▪ C9400-LC-24XS	24-port TenGigabit Ethernet Module with SFP/SFP+
			▪ C9400-LC-48P	48-port Gigabit Ethernet PoE/PoE+ Module
			▪ C9400-LC-24S	24-port Gigabit Ethernet SFP Module
			▪ C9400-LC-48S	48-port Gigabit Ethernet SFP Module

Table 3. Cisco SD-Access fabric border and fabric control plane platform part numbers

Device role	Product family	Part number	Description
Fabric control and border node	Cisco Catalyst 9300 Series	C9300-24T	24-port data switch
		C9300-48T	48-port data switch
		C9300-24P	24-port PoE+ switch
		C9300-48P	48-port PoE+ switch
		C9300-24U	24-port Cisco UPOE switch
		C9300-48U	48-port Cisco UPOE switch
		C9300-24UX	24-port Multigigabit Cisco UPOE switch
		C9300-48UXM	48-port Multigigabit Cisco UPOE switch
Fabric control and border node	Cisco Catalyst 9400 Series	C9404R/C9407R/C9410R with Supervisors	C9400 Supervisor engines
		<ul style="list-style-type: none"> <li>C9400-SUP-1XL</li> <li>C9400-SUP-1XL-Y</li> </ul>	<p>Supervisor 1XL Module</p> <p>Supervisor 1XL Module with 25G uplinks</p>
		Line Cards:	
		<ul style="list-style-type: none"> <li>C9400-LC-48U</li> <li>C9400-LC-48UX</li> <li>C9400-LC-48T</li> <li>C9400-LC-24XS</li> <li>C9400-LC-48P</li> <li>C9400-LC-24S</li> <li>C9400-LC-48S</li> </ul>	<p>48-port UPOE Gigabit Ethernet Switching Module</p> <p>48-port UPOE MultiGigabit Ethernet Module</p> <p>48-port Gigabit Ethernet Module</p> <p>24-port TenGigabit Ethernet Module with SFP/SFP+</p> <p>48-port Gigabit Ethernet PoE/PoE+ Module</p> <p>24-port Gigabit Ethernet SFP Module</p> <p>48-port Gigabit Ethernet SFP Module</p>

Device role	Product family	Part number	Description
<b>Fabric control and border node</b>	Cisco Catalyst 9500 Series	C9500-12Q	12-port 40 Gigabit Ethernet with QSFP
		C9500-24Q	24-port 40 Gigabit Ethernet with QSFP+
		C9500-40X	40-port 10 Gigabit Ethernet with SFP+
		C9500-32C	High-performance 32-port 100G switch
		C9500-32QC	High-performance 32-port 40G switch
		C9500-48Y4C	High-performance 48-port 25G switch
		C9500-24Y4C	High-performance 24-port 25G switch
		C9500-16X	High-performance 2 x 40GE Network Module
<b>Fabric border and control plane node</b>	Cisco Catalyst 6807-XL and 6500-E	VS-S2T-10G*	6500 Series Supervisor Engine 2T
		VS-S2T-10G-XL*	6500 Series Supervisor Engine 2T XL
		C6800-SUP6T	6800 Series Supervisor Engine 6T
		C6800-SUP6T-XL	6800 Series Supervisor Engine 6T XL
		C6800-8P10G	6800 8-port 10 GE with integrated DFC4
		C6800-8P10G-XL	6800 8-port 10 GE with integrated DFC4-XL
		C6800-16P10G	6800 16-port 10 GE with integrated DFC4
		C6800-16P10G-XL	6800 16-port 10 GE with integrated DFC4-XL
		C6800-32P10G	6800 32-port 10 GE with dual integrated dual DFC4
		C6800-32P10G-XL	6800 32-port 10 GE with dual integrated dual DFC4-XL
		C6800-8P40G	6800 8-port 40GE with dual integrated dual DFC4-E
		C6800-8P40G-XL	6800 8-port 40GE with dual integrated dual DFC4-EXL
<b>Fabric border and control plane node</b>	Cisco Catalyst 6880-X	C6880-X	6880-X-chassis (XL tables)
		C6880-X-16P10G	6880-X multirate port card (XL tables)
		C6880-X-LE	6880-X-chassis (standard tables)
		C6880-X-LE-16P10G	6880-X multirate port card (standard tables)
<b>Fabric border and control plane node</b>	Cisco Catalyst 6840-X	C6816-X-LE	6816-X-chassis (standard tables)
		C6832-X-LE	6832-X-chassis (standard tables)
		C6824-X-LE-40G	6824-X-chassis and 2 x 40G
		C6840-X-LE-40G	6840-X-chassis and 2 x 40G



Device role	Product family	Part number	Description
<b>Fabric border node (default/external border only)</b>	Cisco Nexus 7700 Series	N77-M324FQ-25L	Cisco Nexus 7700 M3 Series 24-port 40G Ethernet module
		N77-M348XP-23L N77-M312CQ-26L	Cisco Nexus 7700 M3-Series 48-port 1/10G Ethernet module Cisco Nexus 7700 M3-Series 12-port 100G Ethernet module
<b>Fabric border and control node</b>	ASR 1000 Series	ASR1001-X	Cisco ASR1001-X System, Crypto, 6 built-in GE, dual P/S
		ASR1001-HX	Cisco ASR1001-HX System, 8x 10 GE + 8x 1 GE, 2x P/S, optional crypto
		ASR1002-HX	Cisco ASR 1002-HX System, 4x 10 GE + 4x 1 GE built-in, dual P/S, optional crypto
		ASR1002-X	Cisco ASR 1002-X System, crypto, 6 built-In GE, dual P/S
		ASR1006-X	Cisco ASR 1006-X chassis, ASR1000-RP2/ASR1000-RP3/ASR1000-ESP100/ESP-40
		ASR1009-X	Cisco ASR 1009-X chassis, ASR1000-RP2/ASR1000-RP3/ASR1000-ESP100/ASR1000-ESP200/ESP-40
<b>Fabric border and control node</b>	4400 and 4300 Series ISRs	ASR1006	Cisco ASR1000-RP2/ESP-40/ASR1000-ESP100
		ISR4461	4461 ISR with 4 onboard GE, 3 NIM slots, 1 ISC slot, 3 SM slots, 8GB flash memory default, 4 GB DRAM default (data plane), 8 GB DRAM default (control plane)
		ISR4451	4451 ISR with 4 onboard GE, 3 NIM slots, 1 ISC slot, 2 SM slots, 8 GB flash memory default, 2 GB DRAM default (data plane), 4 GB DRAM default (control plane)
		ISR4431	4431 ISR with 4 onboard GE, 3 NIM slots, 1 ISC slot, 8 GB flash memory default, 2 GB DRAM default (data plane), 4 GB DRAM default (control plane)
		ISR4351	4351 ISR with 3 onboard GE, 3 NIM slots, 1 ISC slot, 2 SM slots, 4 GB flash memory default, 4 GB DRAM default
		ISR4331	4331 ISR with 3 onboard GE, 2 NIM slots, 1 ISC slot, 1 SM slot, 4 GB flash memory default, 4 GB DRAM default
		ISR4321	4321 ISR with 2 onboard GE, 2 NIM slots, 1 ISC slot, 4 GB flash memory default, 4 GB DRAM default

\* Sup 2T uplinks do not support Cisco SD-Access.

Table 4. Cisco SD-Access wireless platform part numbers

Device role	Product family	Part number	Description
<b>Fabric control plane node</b>	CSR 1000v	L-CSR-x-AX-xY=	CSR 1000v e-PAK x-year subscription y Speed AX package
<b>Fabric wireless node</b>	Catalyst Wireless Controllers	C9800-40-K9	Catalyst 9800-40 Wireless Controller
		C9800-80-K9	Catalyst 9800-80 Wireless Controller
		C9800-CL-K9	Catalyst 9800-CL Wireless Controller for private cloud
<b>Fabric wireless node</b>	Wireless LAN controllers	AIR-CT5520-K9	5520 Wireless LAN controller
		AIR-CT8540-K9	8540 Wireless LAN controller
		AIR-CT3504-K9	3504 Wireless LAN controller
<b>Fabric wireless node</b>	Wi-Fi 6 access points	C9120AXI-x	Cisco Catalyst 9120I Access Point, Indoor environments, with internal antennas
		C9120AXE-x	Cisco Catalyst 9120E Access Point, Indoor environments, with external antennas
		C9120AXP-x	Cisco Catalyst 9120P Access Point, Indoor environments, professional installations
		C9117AXI-x	Cisco Catalyst 9117I Access Point: Indoor environments, with internal antennas
		C9115AXI-x	Cisco Catalyst 9115I Access Point: Indoor environments, with internal antennas
		C9115AXE-x	Cisco Catalyst 9115E Access Point: Indoor challenging environments, with external antennas

Device role	Product family	Part number	Description
Fabric wireless node	Wave 2 access points	AIR-AP4800X-x-K9	4800 Series access points
		AIR-AP3802X-x-K9	3800 Series access points
		AIR-AP2802X-x-K9	2800 Series access points
		AIR-AP1832X-x-K9	1830 Series access points
		AIR-AP1852X-x-K9	1850 Series access points
		AIR-AP1815X-x-K9	1815 Series Wave 2 access points
		AIR-AP1810X-x-K9	1810 Series Wave 2 access points
		AIR-AP4800-x-K9	4800 Series access points Dual-band, controller-based 802.11a/b/g/n/ac
		AIR-AP15621-x-K9	1560 Series access points Dual-band 802.11a/g/n/ac, Wave 2, internal semi-omni antennas
		AIR-AP1562E-x-K9	1560 Series access points Dual-band 802.11a/g/n/ac, Wave 2, external antennas
AIR-AP1562D-x-K9	1560 Series access points Dual-band 802.11a/g/n/ac, Wave 2, internal directional antennas		
AIR-AP1542I-x-K9	1540 Series access points Dual-band 802.11a/g/n/ac, Wave 2, internal omni antennas		
AIR-AP1542D-x-K9	1540 Series access points Dual-band 802.11a/g/n/ac, Wave 2, internal directional antennas		

Table 5. Cisco SD-Access Extended platform part numbers

Device role	Product family	Part number	Description
Cisco SD-Access Extended node	Cisco Catalyst 3560-CX Series	3560CX-8TC-S	8 x 1GE, 2 x 1G copper plus 2 x 1G SFP uplinks
		3560CX-12TC-S	12 x 1GE, 2 x 1G copper plus 2 x 1G SFP uplinks
		3560CX-8PC-S	8 x 1GE, 2 x 1G copper plus 2 x 1G SFP uplinks, 8 PoE+, 240W
		3560CX-12PC-S	12 x 1GE, 2 x 1G copper plus 2 x 1G SFP uplinks, 12 PoE+, 240W
		3560CX-12PD-S	12 x 1GE, 2 x 1G copper plus 2 x 10G SFP+ uplinks, 12 PoE+, 240W
		C3560CX-8PT-S C3560CX-8XPD-S	8 x 1GE, 2 x 1G copper (UPOE) uplinks, 8 PoE+, 146W 6 x 1 GE plus 2 Multi-GE, 2 x 10G SFP+ uplinks, 8 PoE+, 240W
	Cisco Catalyst Digital Building Series	CDB-8P	8 x 1 FE, 2 x 1G copper uplinks, 8 PoE+, 240W
		CDB-8U	8 x 1 FE, 2 x 1G copper uplinks, 8 Cisco UPOE, 480W

Device role	Product family	Part number	Description
	Cisco Industrial Ethernet 4000 Series	IE-4000-8GS4G-E	4 x 1G combo with 8 x 1G SFP
		IE-4000-8GT4G-E	4 x 1G combo with 8 x 1G copper
		IE-4000-16GT4G-E	4 x 1G combo with 16 x 1G copper
		IE-4000-4GS8GP4G-E	4 x 1G combo with 4 x 1G SFP, 8 x 1G PoE
		IE-4000-8GT8GP4G-E	4 x 1G combo with 8 x 1G copper, 8 x 1G PoE
		IE-4000-4GC4GP4G-E	4 x 1G combo with 4 x 1G combo, 4 x 1G PoE
		IE-4000-4T4P4G-E	4 x 1G combo with 4 x 1 FE copper, 4 x 1 FE PoE
		IE-4000-8S4G-E	4 x 1G combo with 8 x 1 FE SFP
		IE-4000-8T4G-E	4 x 1G combo with 8 x 1 FE copper
		IE-4000-4TC4G-E	4 x 1G combo with 4 x 1 FE combo
		IE-4000-16T4G-E	4 x 1G combo with 16 x 1 FE copper
	IE-4000-4S8P4G-E	4 x 1G combo with 4 x 1 FE SFP, 8 x 1 FE PoE	
	Cisco Industrial Ethernet 4010 Series	IE-4010-4S24P	4 x 1G SFP with 24 x 1 G PoE,
IE-4010-16S12P		16 x 1G SFP with 12 x 1 G PoE	
Cisco Industrial Ethernet 5000 Series	IE-5000-12S12P-10G	4 x 10G SFP with 12 x 1 G SFP, 12 x 1 G PoE	
	IE-5000-16S12P	16 x 1G SFP with 12 x 1 G PoE	

## Cisco SD-Access software licenses

Table 6 and Table 7 summarizes the platform licenses required to be able to deploy Cisco SD-Access in your network.

Table 6. Cisco SD-Access platform license combinations for Cisco Catalyst Switches

Network stack license (Base)	Lan-Lite	IP Base	IP Services	Enterprise Services	Ad. IP Services	Ad. IP Enterprise Services	Network advantage
Add-on license	Cisco DNA Premier/ Cisco DNA Advantage	Cisco DNA Premier/ Cisco DNA Advantage	Cisco DNA Premier/ Cisco DNA Advantage	Cisco DNA Premier/ Cisco DNA Advantage	Cisco DNA Premier/ Cisco DNA Advantage	Cisco DNA Premier/ Cisco DNA Advantage	Cisco DNA Premier/ Cisco DNA Advantage
Cisco Catalyst 3650, 3850		<input type="checkbox"/>	<input type="checkbox"/>				
Cisco Catalyst 9200							<input type="checkbox"/>
Cisco Catalyst 9300							<input type="checkbox"/>
Cisco Catalyst 9400							<input type="checkbox"/>
Cisco Catalyst 9500							<input type="checkbox"/>
Cisco Catalyst 4500E (Sup8E, Sup9E)				<input type="checkbox"/>			
Sup 2T (6500-E, 6807-XL)					<input type="checkbox"/>	<input type="checkbox"/>	
Sup 6T (6500-E, 6807-XL), 6840-X, 6800-X)						<input type="checkbox"/>	
CDB	<input type="checkbox"/>						
Cisco Catalyst 3560-CX		<input type="checkbox"/>	<input type="checkbox"/>				

Table 7. Summarizes the platform licenses required to be able to deploy Cisco SD-Access in your network.  
Cisco SD-Access platform license combinations

Network stack license (Base)	LAN Enterprise	AX/AppX	Ad. IP Services	Adv. Enterprise Services
Add-on license	Cisco DNA Premier/ Cisco DNA Advantage	Cisco DNA Premier/ Cisco DNA Advantage	Cisco DNA Premier/ Cisco DNA Advantage	Cisco DNA Premier/ Cisco DNA Advantage
Cisco Nexus 7700 Series- M3	<input type="checkbox"/>			
Cisco ASR-1000-X, ASR-1000-HX			<input type="checkbox"/>	<input type="checkbox"/>
Cisco 4300, 4430, 4450, 4661 Series ISR		<input type="checkbox"/>		
Cisco CSR 1000v		<input type="checkbox"/>		
Cisco Catalyst 9800-80, 9800-40, 9800-CL, 9800 Embedded Wireless				<input type="checkbox"/>
AIR-CT5520, AIR-CT8540, AIR-CT3504				<input type="checkbox"/>
Wi-Fi 6 APs (9115, 9117, 9120)				<input type="checkbox"/>
Wave2 APs (1800, 2800, 3800, 4800, 1560, 1540)				<input type="checkbox"/>

## Notes:

- Cisco DNA subscriptions require a minimum level of Base license on the device. The Base licenses are perpetual in nature.
- Cisco DNA subscriptions are term based and are available in 3-, 5-, and, in some cases, 7-year terms.
- Only three virtual networks are available if IP Base and Cisco DNA Advantage are enabled on the switch. With IP Services, the restriction of three virtual networks is removed and all VRFs supported on the platform are available for Cisco SD-Access.
- Cisco DNA subscriptions can be purchased as a configuration option under most compatible hardware platforms (listed above), or can be purchased separately using A La Carte (ALC) SKUs.
- Cisco DNA Premier is term based and available in 3-, 5-, and, in some cases, 7-year terms.
- Cisco DNA Premier bundle includes Cisco DNA Advantage, ISE Base, ISE Plus, and Stealthwatch licenses. This bundle includes between 25 and 100 ISE Base and ISE Plus sessions and 25 flows for a fixed switch, depending on the switch.
  - Note that an add-on consisting of 25 ISE Base and ISE Plus sessions and an additional 25 flows is selected by default for 48-port switches at an additional cost. Customers can select up to three add-ons, for up to 100 ISE Base and ISE Plus endpoints and 100 flows per modular switch. This add-on is optional and can be removed if not required.
- Cisco DNA Advantage for Wireless includes term-based AP license and Cisco Prime Infrastructure license.
- Cisco DNA Premier for Wireless includes term-based Cisco DNA Advantage, AP license, Cisco Prime Infrastructure license, CMX Base, and 15 endpoint licenses for ISE Base and ISE Plus per access point.
- Cisco SD-Access Wireless requires Cisco DNA Advantage or Cisco DNA Premier license per Access Point.
- Cisco SD-Access Embedded Wireless requires Cisco DNA Advantage or Cisco DNA Premier license per Access Point.
- Cisco SD-Access requires ISE Base and ISE Plus licenses.

The following sections list the detailed SKUs required to deploy Cisco SD-Access.

In most cases, Cisco DNA subscriptions can be added as an option when configuring Cisco SD-Access-capable hardware in Cisco Commerce Workspace (CCW). When ordered separately (for brownfield purposes), the following part numbers will serve as a guide for ordering and configuring Cisco DNA licenses.

For Cisco DNA Premier Software, the part number is the orderable part number, which should be entered into the ordering tool first. After the orderable part number is entered, the software part numbers are visible in the Subscription Software Option Class. The subscription term will typically default to 60 months, but can be modified in two ways. The Subscription Duration Preference area of the ordering tool can be modified for the desired subscription term, or the Advantage part number hyperlink can be customized to a 3, 5, or, in some cases, 7- year term.



## Cisco Catalyst 9200L Series licenses

Table 8. A la carte part numbers for ordering Cisco DNA Advantage for the Cisco Catalyst 9200L Series

License type	Product ID	Description
A la carte part numbers	<b>C9200L-DNA-A-24 (Greenfield)</b> <b>C9200L-DNA-A-24= (Brownfield)</b> C9200L-DNA-A-24-3Y C9200L-DNA-A-24-5Y C9200L-DNA-A-24-7Y	<b>C9200L Cisco DNA Advantage, 24-port term licenses</b>  C9200L Cisco DNA Advantage, 24-port, 3-year term license C9200L Cisco DNA Advantage, 24-port, 5-year term license C9200L Cisco DNA Advantage, 24-port, 7-year term license
	<b>C9200L-DNA-A-48 (Greenfield)</b> <b>C9200L-DNA-A-48= (Brownfield)</b> C9200L-DNA-A-48-3Y C9200L-DNA-A-48-5Y C9200L-DNA-A-48-7Y	<b>C9200 Cisco DNA Advantage, 48-port term licenses</b>  C9200L Cisco DNA Advantage, 48-port, 3-year term license C9200L Cisco DNA Advantage, 48-port, 5-year term license C9200L Cisco DNA Advantage, 48-port, 7-year term license

## Cisco Catalyst 9200 Series licenses

Table 9. A la carte part numbers and Cisco DNA Premier Software part numbers for ordering Cisco DNA Advantage for the Cisco Catalyst 9200 Series

License type	Product ID	Description
A la carte part numbers	<b>C9200-DNA-A-24 (Greenfield)/</b> <b>C9200-DNA-A-24= (Brownfield)</b> C9200-DNA-A-24-3Y C9200-DNA-A-24-5Y C9200-DNA-A-24-7Y	<b>C9200 Cisco DNA Advantage, 24-port term licenses</b>  C9200 Cisco DNA Advantage, 24-port, 3-year term license C9200 Cisco DNA Advantage, 24-port, 5-year term license C9200 Cisco DNA Advantage, 24-port, 7-year term license
	<b>C9200-DNA-A-48 (Greenfield)/</b> <b>C9200-DNA-A-48= (Brownfield)</b> C9200-DNA-A-48-3Y C9200-DNA-A-48-5Y C9200-DNA-A-48-7Y	<b>C9200 Cisco DNA Advantage, 48-port term licenses</b>  C9200 Cisco DNA Advantage, 48-port, 3-year term license C9200 Cisco DNA Advantage, 48-port, 5-year term license C9200 Cisco DNA Advantage, 48-port, 7-year term license

License type	Product ID	Description
Cisco DNA Premier	<b>C1-CAT-ADD-T (Brownfield)</b> C9200-DNA-P-24-3Y (Greenfield/Brownfield) C9200-DNA-P-24-5Y (Greenfield/Brownfield) C9200-DNA-P-24-7Y (Greenfield/Brownfield)	<b>C9200 Cisco DNA Premier, 24-port term licenses</b> C9200 Cisco DNA Premier, 24-port, 3-Year term license C9200 Cisco DNA Premier, 24-port, 5-year term license C9200 Cisco DNA Premier, 24-port, 7-year term license
	<b>C1-CAT-ADD-T (Brownfield)</b> C9200-DNA-A-48-3Y (Greenfield/Brownfield) C9200-DNA-A-48-5Y (Greenfield/Brownfield) C9200-DNA-A-48-7Y (Greenfield/Brownfield)	<b>C9200 Cisco DNA Premier, 48-port term licenses</b> C9200 Cisco DNA Premier, 48-port, 3-year term license C9200 Cisco DNA Premier, 48-port, 5-year term license C9200 Cisco DNA Premier, 48-port, 7-year term license

## Cisco Catalyst 9300 Series licenses

Tables 10 and 11 list the part numbers for ordering of Cisco DNA Advantage for the Cisco Catalyst 9300 Series.

Table 10. A la carte part numbers for Cisco DNA Advantage for the Cisco Catalyst 9300 Series

License type	Product ID	Description
A la carte part numbers	<b>C9300-DNA-A-24 (Greenfield)/ C9300-DNA-A-24= (Brownfield)</b> C9300-DNA-A-24-3Y C9300-DNA-A-24-5Y C9300-DNA-A-24-7Y	<b>C9300 Cisco DNA Advantage, 24-port term licenses</b> C9300 Cisco DNA Advantage, 24-port, 3-year term license C9300 Cisco DNA Advantage, 24-port, 5-year term license C9300 Cisco DNA Advantage, 24-port, 7-year term license
	<b>C9300-DNA-A-48 (Greenfield)/ C9300-DNA-A-48= (Brownfield)</b> C9300-DNA-A-48-3Y C9300-DNA-A-48-5Y C9300-DNA-A-48-7Y	<b>C9300 Cisco DNA Advantage, 48-port term licenses</b> C9300 Cisco DNA Advantage, 48-port, 3-year term license C9300 Cisco DNA Advantage, 48-port, 5-year term license C9300 Cisco DNA Advantage, 48-port, 7-year term license

Table 11. Cisco DNA Premier Software part numbers for Cisco DNA Advantage for the Cisco Catalyst 9300 Series

License type	Product ID	Description
Cisco DNA Premier	<b>C1-CAT-ADD-T (Brownfield)</b>	<b>Top-level SKU</b>
	C1A1TCAT93001 (Greenfield/Brownfield)	Cisco DNA Premier term, C9300 24-port
	C1A1TCAT93002 (Greenfield/Brownfield)	Cisco DNA Premier term, C9300 48-port
	C1A1ATACT93001 (Greenfield/Brownfield)	Cisco DNA Premier Upgrade term, C9300 24-port
	C1A1ATACT93002 (Greenfield/Brownfield)	Cisco DNA Premier Upgrade term, C9300 48-port

The base license for Cisco DNA Advantage or Cisco DNA Premier is Network Advantage. For initial purchase, choose only hardware PIDs with the “-A” suffix. For “-E” suffix, use an upgrade SKU to upgrade to “-A” suffix.

## Cisco Catalyst 9400 Series licenses

Tables 12 and 13 list the part numbers for ordering of Cisco DNA Advantage for the Cisco Catalyst 9400 Series.

Table 12. A la carte part numbers for Cisco DNA Advantage for the Cisco Catalyst 9400 Series

License type	Product ID	Description
A la carte part numbers	<b>C9400-DNA-A (Greenfield)/ C9400-DNA-A = (Brownfield)</b>	<b>Top-level SKU</b>
	C9400-DNA-A-3Y	C9400 Cisco DNA Advantage, 3-year term license
	C9400-DNA-A-5Y	C9400 Cisco DNA Advantage, 5-year term license
	C9400-DNA-A-7Y	C9400 Cisco DNA Advantage, 7-year term license

Table 13. Cisco ONE Software part numbers for Cisco DNA Advantage for the Cisco Catalyst 9400 Series

License type	Product ID	Description
Cisco DNA Premier	<b>C1-CAT-ADD-T (Brownfield)</b> C1A1TCAT94001 (Greenfield/Brownfield)	<b>Top-level SKU</b> Cisco DNA Premier term, C9400

The base license for Cisco DNA Advantage or Cisco DNA Premier Advantage is Network Advantage. For initial purchase, choose only hardware PIDs with the “-A” suffix. For “-E” suffix, use an upgrade SKU to upgrade to “-A” suffix.

## Cisco Catalyst 9500 Series licenses

Table 14 lists the part numbers for a la carte ordering of Cisco DNA Advantage for the Cisco Catalyst 9500 Series.

Table 15 lists the part numbers for ordering through Cisco DNA Premier.

Table 14. A la carte part numbers for Cisco DNA Advantage for the Cisco Catalyst 9500 Series

License type	Product ID	Description
A la carte part numbers	<b>C9500-DNA-L-A (Greenfield)</b>	<b>C9500 Cisco DNA Advantage, low density term licenses</b>
	C9500-DNA-L-A-3Y	C9500 Cisco DNA Advantage, low density, 3-year term license
	C9500-DNA-L-A-5Y	C9500 Cisco DNA Advantage, low density, 5-year term license
	C9500-DNA-L-A-7Y	C9500 Cisco DNA Advantage, low density, 7-year term license
	<b>C9500-DNA-L-A (Greenfield)</b>	<b>C9500 Cisco DNA Advantage, high density term licenses</b>
	C9500-DNA-L-A-3Y	C9500 Cisco DNA Advantage, high density, 3-year term license
C9500-DNA-L-A-5Y	C9500 Cisco DNA Advantage, high density, 5-year term license	
C9500-DNA-L-A-7Y	C9500 Cisco DNA Advantage, high density, 7-year term license	

Table 15. Cisco ONE part numbers for Cisco DNA Advantage for the Cisco Catalyst 9500 Series

License type	Product ID	Description
Cisco DNA Premier	<b>C1-CAT-ADD-T (Brownfield)</b>	<b>Top-level SKU</b>
	C1A1TCAT95001 (Greenfield/Brownfield) C1A1ATCAT95001 (Greenfield/Brownfield)	Cisco DNA Premier Advantage term, C9500 Cisco DNA Premier Advantage Upgrade term, C9500

The base license for Cisco DNA Advantage or Cisco DNA Premier Advantage is Network Advantage. For initial purchase, choose only hardware PIDs with the “-A” suffix. For “-E” suffix, use an upgrade SKU to upgrade to “-A” suffix.

## Cisco Catalyst 3850 Series licenses

Tables 16, 17, 18, and 19 list the product IDs for ordering Cisco DNA Advantage or Cisco DNA Premier licenses for the Cisco Catalyst 3850 Series.

Table 16. A la carte part numbers for Cisco DNA Advantage for the Cisco Catalyst 3850 Series

License type	Product ID	Description
A la carte part numbers	<b>C3850-DNA-A-24 (Greenfield)/ C3850-DNA-A-24= (Brownfield)</b>	<b>C3850 Cisco DNA Advantage, 24-port term licenses</b>
	C3850-DNA-A-24-3Y C3850-DNA-A-24-5Y	C3850 Cisco DNA Advantage, 24-port, 3-year term license C3850 Cisco DNA Advantage, 24-port, 5-year term license
	<b>C3850-DNA-A-48 (Greenfield)/ C3850-DNA-A-48= (Brownfield)</b>	<b>C3850 Cisco DNA Advantage, 48-port term licenses</b>
	C3850-DNA-A-48-3Y C3850-DNA-A-48-5Y	C3850 Cisco DNA Advantage, 48-port, 3-year term license C3850 Cisco DNA Advantage, 48-port, 5-year term license

Table 17. Cisco ONE Software part numbers for Cisco DNA Advantage for the Cisco Catalyst 3850 Series

License type	Product ID	Description
Cisco DNA Premier	<b>C1-CAT-ADD-T (Brownfield)</b>	<b>Top-level SKU</b>
	C1A1ATCAT38501 (Greenfield/Brownfield)	Cisco DNA Premier term, C3850 24-port
	C1A1ATCAT38502 (Greenfield/Brownfield)	Cisco DNA Premier term, C3850 48-port

Table 18. A la carte part numbers for Cisco DNA Advantage for the Cisco Catalyst 3850 Series (10G fiber)

License type	Product ID	Description
A la carte part numbers	<b>C3850XS-DNA-L-A (Greenfield)</b>	<b>C3850 Cisco DNA Advantage, Low Port Term licenses</b>
	<b>C3850XS-DNA-L-A= (Brownfield)</b>	
	C3850XS-DNA-L-A-3Y	C3850 Cisco DNA Advantage, Low Port, 3 Year Term license
	C3850XS-DNA-L-A-5Y	C3850 Cisco DNA Advantage, Low Port, 5 Year Term license
	<b>C3850XS-DNA-A (Greenfield)</b>	<b>C3850 Cisco DNA Advantage, High Port Term licenses</b>
	<b>C3850XS-DNA-A= (Brownfield)</b>	
	C3850XS-DNA-A-3Y	C3850 Cisco DNA Advantage, High Port, 3 Year Term license
	C3850XS-DNA-A-5Y	C3850 Cisco DNA Advantage, High Port, 5 Year Term license

Table 19. Cisco ONE Software part numbers for Cisco DNA Advantage for the Cisco Catalyst 3850 Series (fiber)

License type	Product ID	Description
Cisco DNA Premier	<b>C1-CAT-ADD-T (Brownfield)</b>	<b>Top-level SKU</b>
	C1A1ATCAT38503 (Greenfield/Brownfield)	Cisco DNA Premier term, C3850 12-port fiber
	C1A1ATCAT38504 (Greenfield/Brownfield)	Cisco DNA Premier term, C3850 24-port fiber
	C1A1ATCAT38505 (Greenfield/Brownfield)	Cisco DNA Premier term, C3850 48-port fiber

The required base license for Cisco DNA Advantage is IP Base or IP Services. Choose only hardware PIDs with the “-S” or “-E” suffix. Note that when the base license is IP Base, you are limited to only three virtual networks.

## Cisco Catalyst 3650 Series licenses

Table 20 lists the product IDs for ordering Cisco DNA Advantage licenses for the Cisco Catalyst 3650 Series.

Table 20. A la carte part numbers for Cisco DNA Advantage for the Cisco Catalyst 3650 Series

License type	Product ID	Description
A la carte part numbers	<b>C3650-DNA-A-24 (Greenfield)</b>	<b>C3650 Cisco DNA Advantage, 24-port term licenses</b>
	<b>C3650-DNA-A-24= (Brownfield)</b>	
	C3650-DNA-A-24-3Y	C3650 Cisco DNA Advantage, 24-port, 3-year term license
	C3650-DNA-A-24-5Y	C3650 Cisco DNA Advantage, 24-port, 5-year term license
	<b>C3650-DNA-A-48 (Greenfield)</b>	<b>C3650 Cisco DNA Advantage, 48-port term licenses</b>
	<b>C3650-DNA-A-48= (Brownfield)</b>	
C3650-DNA-A-48-3Y	C3650 Cisco DNA Advantage, 48-port, 3-year term license	
C3650-DNA-A-48-5Y	C3650 Cisco DNA Advantage, 48-port, 5-year term license	
Cisco DNA Premier	<b>C1-CAT-ADD-T (Brownfield)</b>	<b>Top-level SKU</b>
	<b>C1A1ATCAT36501 (Greenfield/Brownfield)</b>	<b>Cisco DNA Premier Term C3650 24-Port</b>
	<b>C1A1ATCAT36502 (Greenfield/Brownfield)</b>	<b>Cisco DNA Premier Term C3650 48-Port</b>

The required base license for Cisco DNA Advantage is IP Base or IP Services. For initial purchase, choose only hardware PIDs with the “-A” suffix. For “-E” suffix, use an upgrade SKU to upgrade to “-A” suffix. Note that when the base license is IP Base, you are limited to only three virtual networks.

## Cisco Catalyst 3560-CX and Cisco Catalyst Digital Building Series licenses

Table 21. A la carte part numbers for Cisco DNA Advantage for the Cisco Catalyst 3650 Series

License type	Product ID	Description
A la carte part numbers	<b>C3560CX-DNA-A-8 (Greenfield)</b> <b>C3560CX-DNA-A-8= (Brownfield)</b> C3560CX-DNA-A-8-3 C3560CX-DNA-A-8-5	<b>C3560 Cisco DNA Advantage, 8-port term licenses</b>  C3560 Cisco DNA Advantage, 8-port, 3-year term license C3560 Cisco DNA Advantage, 8-port, 5-year term license
	<b>C3560CX-DNA-A-12 (Greenfield)</b> <b>C3560CX-DNA-A-12= (Brownfield)</b> C3560CX-DNA-A-12-3 C3560CX-DNA-A-12-5	<b>C3560 Cisco DNA Advantage, 12-port term licenses</b>  C3560 Cisco DNA Advantage, 12-port, 3-year term license C3560 Cisco DNA Advantage, 12-port, 5-year term license

Table 22. A la carte part numbers for Cisco DNA Advantage for the Cisco Catalyst Digital Building Series

License type	Product ID	Description
A la carte part numbers	<b>CDB-DNA-A-8 (Greenfield)</b> <b>CDB-DNA-A-8= (Brownfield)</b> CDB-DNA-A-8-3Y CDB-DNA-A-8-5Y CDB-DNA-A-8-7Y	<b>Cisco Digital Building Cisco DNA Advantage, 24-port term licenses</b>  Cisco Digital Building Cisco DNA Advantage, 24-port, 3-year term license  Cisco Digital Building Cisco DNA Advantage, 24-port, 5-year term license  Cisco Digital Building Cisco DNA Advantage, 24-port, 7-year term license



## Cisco Catalyst 4500-E Series licenses

Only the 4500-E Series switches with Sup 8E and Sup 9E Supervisors are capable of Cisco SD-Access.

Tables 23 and 24 list the product IDs for ordering Cisco DNA Advantage or Cisco DNA Premier licenses for the Cisco Catalyst 4500-E Series.

Table 23. A la carte part numbers for Cisco DNA Advantage for the Cisco Catalyst 4500-E Series

License type	Product ID	Description
<b>A la carte part numbers</b>	<b>C4500E-DNA-A (Greenfield)</b> <b>C4500E-DNA-A= (Brownfield)</b> C4500E-DNA-A-3Y C4500E-DNA-A-5Y C4500E-DNA-A-7Y	<b>C4500E Cisco DNA Advantage term license</b>  C4500E Cisco DNA Advantage 3-year term license C4500E Cisco DNA Advantage 5-year term license C4500E Cisco DNA Advantage 7-year term license

Table 24. Cisco ONE Software part numbers for Cisco DNA Advantage for the Cisco Catalyst 4500-E Series

License type	Product ID	Description
<b>A la carte part numbers</b>	<b>C1-CAT-ADD-T (Brownfield)</b> C1A1ATCAT4500S (Greenfield/Brownfield) C1A1ATCAT4500X (Greenfield/Brownfield) C1A2ATCAT4500X (Greenfield/Brownfield)	<b>Top-level SKU</b>  Cisco DNA Premier Term C4500E Cisco DNA Premier Term 16/24 Port C4500X Cisco DNA Premier Term 32 Port C4500X

The required base license for Cisco DNA Advantage is IP Base or Enterprise Services. For initial purchase, choose only hardware PIDs with the “-A” suffix. For “-E” suffix, use an upgrade SKU to upgrade to “-A” suffix. Note that when the base license is IP Base, you are limited to only three virtual networks.

## Cisco Catalyst 6800 Series and 6500-E Series licenses

Only Cisco Catalyst 6840-X Series, 6880-X Series, 6500-E Series, and 6807-XL Series support Cisco SD-Access. For 6500-E and 6807-XL, Sup 2T and Sup 6T Supervisors are required. Note that Sup 2T uplinks do not support Cisco SD-Access.

Tables 25 and 26 list the part numbers for ordering Cisco DNA Advantage for the Cisco Catalyst 6840-X, 6880-X, 6500-E, and 6807-XL Series.

Table 25. A la carte part numbers for Cisco DNA Advantage for the Cisco Catalyst 6800 and 6500-E Series

License type	Product ID	Description
A la carte part numbers	<b>C6840-DNA-L-A (Greenfield)</b>	<b>C6840 Low Density Term</b>
	<b>C6840-DNA-L-A= (Brownfield)</b>	
	C6840-DNA-L-A-3Y	
	C6840-DNA-L-A-5Y	5 years
	C6840-DNA-L-A-7Y	7 years
	<b>C6500-DNA-A (Greenfield)</b>	<b>C6500 High Density Term</b>
	<b>C6500-DNA-A= (Brownfield)</b>	
	C6500-DNA-A-3Y	
	C6500-DNA-A-5Y	5 years
	C6500-DNA-A-7Y	7 years
	<b>C6807-DNA-A (Greenfield)</b>	<b>C6807 High Density Term</b>
	<b>C6807-DNA-A= (Brownfield)</b>	
	C6807-DNA-A-3Y	
	C6807-DNA-A-5Y	5 years
	C6807-DNA-A-7Y	7 years

License type	Product ID	Description
	<b>C6880-DNA-A (Greenfield)</b> <b>C6880-DNA-A= (Brownfield)</b> C6880-DNA-A-3Y C6880-DNA-A-5Y C6880-DNA-A-7Y	<b>C6880 High Density Term</b>  3 years 5 years 7 years
	<b>C6840-DNA-A (Greenfield)</b> <b>C6840-DNA-A= (Brownfield)</b> C6840-DNA-A-3Y C6840-DNA-A-5Y C6840-DNA-A-7Y	<b>C6840 High Density Term</b>  3 years 5 years 7 years

Any base license on the Cisco Catalyst 6800 and 6500-E Series can be used with Cisco DNA Advantage. Note that when the base license is IP Base, you are limited to only three virtual networks.

Table 26. Cisco ONE Software part numbers for Cisco DNA Advantage for the Cisco Catalyst 6800 and 6500-E Series

License type	Product ID	Description
<b>Cisco DNA Premier Advantage</b>	<b>C1-CAT-ADD-T (Brownfield)</b> C1A1ATCAT65001 (Greenfield/Brownfield) C1A1ATCAT68071 (Greenfield/Brownfield) C1A1ATCAT68801 (Greenfield/Brownfield) C1A1ATCAT68401 (Greenfield/Brownfield) C1A1ATCAT68402 (Greenfield/Brownfield) C1AA1TCAT6500 (Greenfield/Brownfield) C1AA1TCAT6800 (Greenfield/Brownfield) C1AA1TCAT6840 (Greenfield/Brownfield)	<b>Top-level SKU</b> Cisco DNA Premier Term C6500 Cisco DNA Premier Term C6807 Cisco DNA Premier Term C6880 Cisco DNA Premier Low Term C6816/C6824 Cisco DNA Premier High Term C6832/C6840 Cisco DNA Premier Add-On Term, C6500 Cisco DNA Premier Add-On Term, C6807/C6880 Cisco DNA Premier Add-On Term, 6840

## Cisco Nexus 7700 Series licenses

Only Cisco Nexus 7700 Series Switches with Sup2E and M3 line cards support Cisco SD-Access.

Table 27 lists the part numbers for a la carte ordering of Cisco DNA Advantage for the Cisco Nexus 7700 Series.

Table 27. A la carte part numbers for Cisco DNA Advantage for the Cisco Nexus 7700 Series

License type	Product ID	Description
A la carte part numbers	<b>N7000-DNA-A (Greenfield)/ N7000-DNA-A= (Brownfield)</b>	<b>Nexus 7000 Cisco DNA Advantage</b>
	N7000-DNA-A-3YR	3 Years
	N7000-DNA-A-5YR	5 Years
	N7000-DNA-A-7YR	7 Years

Contact your account team for additional ordering information, such as Cisco ONE packaging.

The minimum base license for activating Cisco DNA Advantage is the LAN Enterprise license (N77-LAN1K9).

## Cisco Industrial Ethernet 4000 Series licenses

Table 28. A la carte part numbers for Cisco DNA Advantage for the Cisco Industrial Ethernet 4000 Series licenses

License type	Product ID	Description
A la carte part numbers	<b>IE4000-DNA-A-L (Greenfield)/ IE4000-DNA-A-L =(Brownfield)</b>	<b>IE 4000 Cisco DNA Advantage (12 ports)</b>
	<b>IE4000-DNA-A-M (Greenfield) 24 ports/ IE4000-DNA-A-M=(Brownfield) 24 port</b>	<b>IE 4000 Cisco DNA Advantage (12 ports)</b>
		<b>IE 4000 Cisco DNA Advantage (24 ports)</b>
		<b>IE 4000 Cisco DNA Advantage (24 ports)</b>
	IE-4000-DNA-A-L-3Y	3 Years
	IE-4000-DNA-A-M-3Y	
	IE-4000-DNA-A-L-5Y	5 Years
	IE-4000-DNA-A-M-5Y	

## Cisco Industrial Ethernet 4010 Series licenses

Table 29. A la carte part numbers for Cisco DNA Advantage for the Cisco Industrial Ethernet 4010 Series licenses

License type	Product ID	Description
A la carte part numbers	<b>IE4010-DNA-A-H (Greenfield)/</b> <b>IE4010-DNA-A-H= (Brownfield)</b>	<b>IE 4010 Cisco DNA Advantage</b>
	IE4010-DNA-A-H-3Y	3 Years
	IE4010-DNA-A-H-5Y	5 Years

## Cisco Industrial Ethernet 5000 Series licenses

Table 30. A la carte part numbers for Cisco DNA Advantage for the Cisco Industrial Ethernet 5000 Series licenses

License type	Product ID	Description
A la carte part numbers	<b>IE5000-DNA-A-H (Greenfield)/</b> <b>IE5000-DNA-A-H= (Brownfield)</b>	<b>IE 5000 Cisco DNA Advantage</b>
	IE5000-DNA-A-H-3Y	3 Years
	IE5000-DNA-A-H-5Y	5 Years

## Cisco ISR, ASR, and CSR Series licenses

Only ASR-1000-X, ASR-1000-HX, ASR1006, ASR1006-X, ASR1009-X, ISR 4461, ISR 4451, ISR 4431, ISR 4351, ISR 4331, ISR 4321, and CSR 1000v support Cisco SD-Access.

ISR and CSR require an AppX license or Cisco DNA licenses to be able to deploy Cisco SD-Access. Choose only hardware PIDs with the “-AX” suffix. ASR requires either AIS or Advanced Enterprise Services license to be able to deploy Cisco SD-Access.

No additional add-on licenses are required.

Contact your account team for additional ordering information such as Cisco DNA Premier packaging.

## Cisco Enterprise wireless licenses

Tables 31 and 32 list the product IDs for ordering Cisco DNA Advantage licenses for the Cisco wireless controllers and access points.

Table 31. A la carte part numbers for Cisco DNA Advantage for wireless controllers and access points

License type	Product ID	Description
A la carte part numbers	<b>AIR-DNA (Greenfield/Brownfield)</b>	<b>Wireless Cisco DNA Advantage Term License, per AP</b>
	AIR-DNA-A-3Y	Wireless Cisco DNA Advantage 3-year term license, per AP
	AIR-DNA-A-5Y	Wireless Cisco DNA Advantage 5-year term license, per AP
	AIR-DNA-A-7Y	Wireless Cisco DNA Advantage 7-year term license, per AP

Table 32. Cisco ONE Software part numbers for Cisco DNA Advantage for wireless controllers and access points

License type	Product ID	Description
Cisco DNA Premier	<b>C1-AIR-K9-T (Greenfield/Brownfield)</b>	<b>Cisco DNA Premier Term License, per AP</b>
	C1A1TAIRK9-3Y	Cisco DNA Premier 3-year term license, per AP
	C1A1TAIRK9-5Y	Cisco DNA Premier 5-year term license, per AP
	C1A1TAIRK9-7Y	Cisco DNA Premier 7-year term license, per AP

### Notes:

- Wireless Cisco DNA Advantage includes term-based AP license (Term-based AP licenses are included in Cisco DNA Essentials).
- Cisco DNA Premier for Wireless includes term-based Cisco DNA Advantage, AP license, Cisco Prime Infrastructure license, CMX Base, ISE Base, and ISE Plus. This bundle includes:
  - 15 ISE Base and ISE Plus sessions per access point
- Cisco SD-Access Embedded Wireless can only be enabled on Cisco Catalyst 9300 series switches with per AP Cisco DNA Premier/Cisco DNA Advantage license, in addition to license needed for the switch itself to work for Cisco SD-Access.

## Promotional offers

Cisco recommends that you review all current offers and programs in the event that one or more may be applicable to your customer. These offers and programs vary based on regions, and include Cisco DNA Center Appliances, Cisco DNA Migration offers for customers owning specific perpetual licenses, Cisco DNA Upgrade offers for customers upgrading from a lower Cisco DNA tier to higher Cisco DNA tier, and so on. To review all current offers, please go to: <https://cs.co/enpromotions>.

## Cisco Identity Services Engine (ISE) licenses

A la carte software licensing requires the purchase of both ISE Base and ISE Plus licenses separately. All ISE licensing is based on the number of endpoints to be supported in the network. For more information refer [Cisco Identity Services Engine Ordering Guide](#).

## Cisco ISE Base session licensing

Table 33 shows the part numbers for perpetual ISE Base session licensing.

Table 33. Perpetual Cisco ISE Base session licenses

Part number (SKU)	Description	Part number (SKU)	Description
<b>L-ISE-BSE-100=</b>	Cisco ISE 100-session Base license	<b>L-ISE-BSE-10K=</b>	Cisco ISE 10,000-session Base license
<b>L-ISE-BSE-250=</b>	Cisco ISE 250-session Base license	<b>L-ISE-BSE-25K=</b>	Cisco ISE 25,000-session Base license
<b>L-ISE-BSE-500=</b>	Cisco ISE 500-session Base license	<b>L-ISE-BSE-50K=</b>	Cisco ISE 50,000-session Base license
<b>L-ISE-BSE-1K=</b>	Cisco ISE 1000-session Base license	<b>L-ISE-BSE-100K=</b>	Cisco ISE 100,000-session Base license
<b>L-ISE-BSE-1500=</b>	Cisco ISE 1500-session Base license	<b>L-ISE-BSE-250K=</b>	Cisco ISE 250,000-session Base license
<b>L-ISE-BSE-2500=</b>	Cisco ISE 2500-session Base license		
<b>L-ISE-BSE-3500=</b>	Cisco ISE 3500-session Base license		
<b>L-ISE-BSE-5K=</b>	Cisco ISE 5000-session Base license		

## ISE Plus session licensing

The ISE Plus session licensing can be purchased as a subscription and is available for 1-, 3-, and 5-year terms. Table 34 shows ordering details for the 1-year subscription, Table 35 shows details for the 3-year subscription, and Table 36 shows details for the 5-year subscription.

Table 34. Ordering details for the 1-year ISE Plus session subscription

Term license	Subscription term	Description
<b>L-ISE-PLS-S-100=</b>	ISE-PLS-1YR-100	Cisco ISE 1-Yr 100-session Plus license
<b>L-ISE-PLS-S-250=</b>	ISE-PLS-1YR-250	Cisco ISE 1-Yr 250-session Plus license
<b>L-ISE-PLS-S-500=</b>	ISE-PLS-1YR-500	Cisco ISE 1-Yr 500-session Plus license
<b>L-ISE-PLS-S-1K=</b>	ISE-PLS-1YR-1K	Cisco ISE 1-Yr 1000-session Plus license
<b>L-ISE-PLS-S-1500=</b>	ISE-PLS-1YR-1500	Cisco ISE 1-Yr 1500-session Plus license
<b>L-ISE-PLS-S-2500=</b>	ISE-PLS-1YR-2500	Cisco ISE 1-Yr 2500-session Plus license
<b>L-ISE-PLS-S-3500=</b>	ISE-PLS-1YR-3500	Cisco ISE 1-Yr 3500-session Plus license
<b>L-ISE-PLS-S-5K=</b>	ISE-PLS-1YR-5K	Cisco ISE 1-Yr 5000-session Plus license
<b>L-ISE-PLS-S-10K</b>	ISE-PLS-1YR-10K	Cisco ISE 1-Yr 10,000-session Plus license
<b>L-ISE-PLS-S-25K=</b>	ISE-PLS-1YR-25K	Cisco ISE 1-Yr 25,000-session Plus license
<b>L-ISE-PLS-S-50K=</b>	ISE-PLS-1YR-50K	Cisco ISE 1-Yr 50,000-session Plus license
<b>L-ISE-PLS-S-100K=</b>	ISE-PLS-1YR-100K	Cisco ISE 1-Yr 100,000-session Plus license
<b>L-ISE-PLS-S-250K=</b>	ISE-PLS-1YR-250K	Cisco ISE 1-Yr 250,000-session Plus license



Table 35. Ordering details for the 3-year ISE Plus session subscription

Term license	Subscription term	Description
<b>L-ISE-PLS-S-100=</b>	ISE-PLS-3YR-100	Cisco ISE 3-Yr 100-session Plus license
<b>L-ISE-PLS-S-250=</b>	ISE-PLS-3YR-250	Cisco ISE 3-Yr 250-session Plus license
<b>L-ISE-PLS-S-500=</b>	ISE-PLS-3YR-500	Cisco ISE 3-Yr 500-session Plus license
<b>L-ISE-PLS-S-1K=</b>	ISE-PLS-3YR-1K	Cisco ISE 3-Yr 1000-session Plus license
<b>L-ISE-PLS-S-1500=</b>	ISE-PLS-3YR-1500	Cisco ISE 3-Yr 1500-session Plus license
<b>L-ISE-PLS-S-2500=</b>	ISE-PLS-3YR-2500	Cisco ISE 3-Yr 2500-session Plus license
<b>L-ISE-PLS-S-3500=</b>	ISE-PLS-3YR-3500	Cisco ISE 3-Yr 3500-session Plus license
<b>L-ISE-PLS-S-5K=</b>	ISE-PLS-3YR-5K	Cisco ISE 3-Yr 5000-session Plus license
<b>L-ISE-PLS-S-10K=</b>	ISE-PLS-3YR-10K	Cisco ISE 3-Yr 10,000-session Plus license
<b>L-ISE-PLS-S-25K=</b>	ISE-PLS-3YR-25K	Cisco ISE 3-Yr 25,000-session Plus license
<b>L-ISE-PLS-S-50K=</b>	ISE-PLS-3YR-50K	Cisco ISE 3-Yr 50,000-session Plus license
<b>L-ISE-PLS-S-100K=</b>	ISE-PLS-3YR-100K	Cisco ISE 3-Yr 100,000-session Plus license
<b>L-ISE-PLS-S-250K=</b>	ISE-PLS-3YR-250K	Cisco ISE 3-Yr 250,000-session Plus license

Table 36. Ordering details for the 5-year ISE Plus session subscription

Term license	Subscription term	Description
<b>L-ISE-PLS-S-100=</b>	ISE-PLS-5YR-100	Cisco ISE 5-Yr 100 Session Plus License
<b>L-ISE-PLS-S-250=</b>	ISE-PLS-5YR-250	Cisco ISE 5-Yr 250 Session Plus License
<b>L-ISE-PLS-S-500=</b>	ISE-PLS-5YR-500	Cisco ISE 5-Yr 500 Session Plus License
<b>L-ISE-PLS-S-1K=</b>	ISE-PLS-5YR-1K	Cisco ISE 5-Yr 1K Session Plus License
<b>L-ISE-PLS-S-1500=</b>	ISE-PLS-5YR-1500	Cisco ISE 5-Yr 1500 Session Plus License
<b>L-ISE-PLS-S-2500=</b>	ISE-PLS-5YR-2500	Cisco ISE 5-Yr 2500 Session Plus License
<b>L-ISE-PLS-S-3500=</b>	ISE-PLS-5YR-3500	Cisco ISE 5-Yr 3500 Session Plus License
<b>L-ISE-PLS-S-5K=</b>	ISE-PLS-5YR-5K	Cisco ISE 5-Yr 5K Session Plus License
<b>L-ISE-PLS-S-10K</b>	ISE-PLS-5YR-10K	Cisco ISE 5-Yr 10K Session Plus License
<b>L-ISE-PLS-S-25K=</b>	ISE-PLS-5YR-25K	Cisco ISE 5-Yr 25K Session Plus License
<b>L-ISE-PLS-S-50K=</b>	ISE-PLS-5YR-50K	Cisco ISE 5-Yr 50K Session Plus License
<b>L-ISE-PLS-S-100K=</b>	ISE-PLS-5YR-100K	Cisco ISE 5-Yr 100K Session Plus License
<b>L-ISE-PLS-S-250K=</b>	ISE-PLS-5YR-250K	Cisco ISE 5-Yr 250K Session Plus License

## Cisco SD-Access appliances

Choose the appliance(s) below based on the solution requirements, as follows.

## Cisco Identity Services Engine appliances

Cisco ISE provides the identity and access control policy functions for the Cisco SD-Access solution and is an integral part of the solution.

Cisco ISE supports both physical and virtual appliances. Cisco ISE physical appliances are based on the Cisco Secure Network Server, a Cisco UCS® C220 rack server configured specifically to support Cisco ISE. The Secure Network Server for Cisco ISE deployments is available in two versions:

- The Cisco Secure Network Server 3515 is designed for small and medium-sized deployments.
- The Cisco Secure Network Server 3595 is suitable for large deployments that require a highly reliable system, including redundant components such as hard disks, and power supplies.

Table 37. Cisco ISE support for Cisco SD-Access

Device role	Product family	Part number	Description
<b>Fabric access policy engine</b>	Cisco ISE (Identity Services Engine)	SNS-3515-K9	Small secure server for ISE applications
		SNS-3595-K9	Large secure server for ISE applications
		R-ISE-VMS-K9=	Cisco ISE Virtual Machine Small (eDelivery)
		R-ISE-VMM-K9=	Cisco ISE Virtual Machine Medium (eDelivery)
		R-ISE-VML-K9=	Cisco ISE Virtual Machine Large (eDelivery)

## Cisco DNA Center appliances

Cisco DNA Center provides automation and assurance functions of the Cisco SD-Access solution.

Cisco DNA Center is only available as a physical appliance, suitable for small and medium-sized deployments.

Table 38. Cisco DNA Center support for Cisco SD-Access

Device role	Product family	Part number	Description
Fabric controller	Cisco DNA Center	DN2-HW-APL	Cisco DNA Center Appliance (Gen 2) 44-Core
		DN2-HW-APL-L	Cisco DNA Center Appliance (Gen 2) 56-Core
Fabric controller	Cisco DNA Center upgrade	DN2-HW-APL-U	Cisco DNA Center Appliance (Gen 2) 44-Core, available for customers that have previously purchased an APIC-EM physical appliance

The Cisco DNA Center appliance is available in a prebuilt form factor.

A minimum of three appliances are required for High Availability (HA) deployment. Thereafter, one HA appliance is needed per each base appliance (i.e. 3, 5, 7, etc. appliances).

For more information on the Cisco DNA Center appliance, visit [here](#).

## Professional and technical services

Cisco offers a wide range of services to help accelerate your success in deploying and optimizing the Cisco SD-Access solution in your enterprise network. The innovative Cisco Services offerings are delivered through a unique combination of people, processes, tools, and partners and are focused on helping you increase operational efficiency and optimize your network. With proven experience, methodology, and best practices, Cisco Services use an architecture-led approach to help you align software-defined networking with your business goals to achieve long-term value. Offering a comprehensive lifecycle of services – from advisory, implementation, optimization and technical services – you can move to a secure and automated unified network with ease and confidence.

Table 39 lists the available Cisco Services. Cisco Smart Net Total Care® Service helps you resolve mission-critical problems with direct access at any time to Cisco network experts and award-winning resources. With this service, you can take advantage of the Cisco Smart Call Home service capability, which offers proactive diagnostics and real-time alerts on your Cisco SD-Access deployment. Spanning the entire network lifecycle, Cisco Services offerings help increase investment protection, optimize network operations, support migration operations, and strengthen your IT expertise.

Table 39. Cisco SD-Access Advise and Implement Services

Product ID	Description
<b>AS-DNA-SDA-CNSLT</b>	Cisco DNA Advisory for Cisco SD-Access
<b>AS-SEC-ADVIS</b>	Segmentation Service
<b>AS-DNA-SDA-CNSLT</b>	Cisco DNA Center Advise and Implement
<b>AS-DNA-SDA-CNSLT</b>	Cisco SD-Access Design
<b>AS-DNA-SDA-CNSLT</b>	Cisco SD-Access Operations Planning
<b>CON-AS-ISE</b>	Security Implementation for ISE
<b>CON-AS-SW</b>	Security Implementation for Stealthwatch
<b>AS-DNA-SDA-CNSLT</b>	Cisco SD-Access Migration
<b>AS-DNA-SDA-CNSLT</b>	Network Migration Upgrade
<b>AS-BN-T-CNSLT</b>	Cisco SD-Access Solutions Validation
<b>CON-AS-TEST-BN</b>	Cisco SD-Access Solution Validation Optimization
<b>CON-AS-BN, CON-AS-OSS-BN or CON-AS-SEC</b>	Network Optimization for Cisco SD-Access

For more details on Cisco Services offerings, go to [Cisco DNA Services listing](#).

## For more information

For more information about Cisco SD-Access, visit <https://www.cisco.com/c/en/us/solutions/enterprise-networks/software-defined-access/index.html>.