

# Cisco SD-Access Ordering Guide

## Steps for ordering SD-Access

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

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

## 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 SD-Access](#)

[Cisco SD-Access software 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 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](#)

[Identity Services Engine \(ISE\) licenses](#)

[ISE Base session licensing](#)

[ISE Plus session licensing](#)

[SD-Access appliances](#)

[Identity Services Engine appliances](#)

[Cisco DNA Center appliances](#)

[Professional and technical services](#)

[For more information](#)

Table 1. SD-Access platform support summary

<b>Fabric edge</b>	<ul style="list-style-type: none"> <li>Cisco Catalyst 9300 Series Switches</li> <li>Cisco Catalyst 9400 Series Switches (SUP-1, SUP-1XL, SUP-1XL-Y)</li> <li>Cisco Catalyst 9500 Series Switches</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> <li>Cisco Cloud Services Router 1000v (control plane only)</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>Extended SD-Access</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>SD-Access wireless</b>	<ul style="list-style-type: none"> <li>802.11 Wave 2 access points: Cisco Aironet® 1800, 2800, 3800, 4800, 1540 and 1560 Series</li> <li>802.11 Wave 1 access points: Cisco Aironet® 1700, 2700, and 3700 Series</li> <li>Cisco Catalyst 9800-40, 9800-80 and 9800-CL Series Wireless Controllers</li> <li>Cisco 3504, 5520 and 8540 Series Wireless Controllers</li> </ul>
<b>SD-Access Embedded Wireless</b>	<ul style="list-style-type: none"> <li>Cisco Catalyst 9300 Series Switches (Wireless with software package upgrade)</li> </ul>

**Note:**

- Wave 1 access points do not support the following functions when deployed for 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.
- Embedded wireless can be enabled on Catalyst switches on two supported topologies:
  - Co-located Border and Control Plane
  - Fabric in a box
- You can enable SD-Access Wireless on Cisco Catalyst 9800-CL Wireless Controller for private cloud running on 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 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
<b>Fabric edge node</b>	Cisco Catalyst 9400 Series	C9404R/C9407R/ C9410R with Supervisors	C9400 Supervisor engines
		C9400-SUP1	Supervisor 1 Module
		C9400-SUP1XL	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

Device role	Product family	Part number	Description
Fabric edge node	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	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
Fabric edge node	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+		

Device role	Product family	Part number	Description
<b>Fabric edge, control and border node</b>	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 12 100 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		

Device role	Product family	Part number	Description
	Cisco Catalyst 9400 Series	C9404R / C9407R / C9410R with Supervisors: SUP-1XL SUP-1XL-Y 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>	Supervisor 1XL Module Supervisor 1XL Module with 25G Uplinks  48-port UPoE Gigabit Ethernet Switching Module 48-port UPoE MultiGigabit Ethernet Module 48-port Gigabit Ethernet Module 24-port TenGigabit Ethernet Module with SFP/SFP+ 48-port Gigabit Ethernet PoE/ PoE+ Module 24-port Gigabit Ethernet SFP Module 48-port Gigabit Ethernet SFP Module
	Cisco Catalyst 9500 Series	<ul style="list-style-type: none"> <li>▪ C9500-12Q</li> <li>▪ C9500-24Q</li> <li>▪ C9500-40X</li> <li>▪ C9500-32C</li> <li>▪ C9500-32QC</li> <li>▪ C9500-48Y4C</li> <li>▪ C9500-24Y4C</li> <li>▪ C9500-16X</li> </ul>	12-port 40 Gigabit Ethernet with QSFP 24-port 40 Gigabit Ethernet with QSFP+ 40-port 10 Gigabit Ethernet with SFP+ 32-port 100 Gigabit Ethernet High-performance switch 32-port 40 Gigabit Ethernet High-performance switch 48-port 25 Gigabit Ethernet High-performance switch 24-port 25 Gigabit Ethernet High-performance switch 2 x 40 Gigabit Ethernet High-performance Network Module
<b>Fabric edge node</b>	Cisco Catalyst 4500E Series	WS X45-Sup9-E WS X45-Sup8-E	Supervisor engine with 928 Gbps of wired access with an E-Series chassis Supervisor engine with 928 Gbps of wired access with an E-Series chassis

Table 3. 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-SUP1XL</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 C9500-24Q C9500-40X C9500-32C C9500-32QC C9500-48Y4C C9500-24Y4C C9500-16X	12-port 40 Gigabit Ethernet with QSFP 24-port 40 Gigabit Ethernet with QSFP+ 40-port 10 Gigabit Ethernet with SFP+ High-performance 32-port 100G switch High-performance 32-port 40G switch High-performance 48-port 25G switch High-performance 24-port 25G switch 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* VS-S2T-10G-XL* C6800-SUP6T C6800-SUP6T-XL C6800-8P10G C6800-8P10G-XL C6800-16P10G C6800-16P10G-XL C6800-32P10G C6800-32P10G-XL C6800-8P40G C6800-8P40G-XL	6500 Series Supervisor Engine 2T 6500 Series Supervisor Engine 2T XL 6800 Series Supervisor Engine 6T 6800 Series Supervisor Engine 6T XL 6800 8-port 10 GE with integrated DFC4 6800 8-port 10 GE with integrated DFC4-XL 6800 16-port 10 GE with integrated DFC4 6800 16-port 10 GE with integrated DFC4-XL 6800 32-port 10 GE with dual integrated dual DFC4 6800 32-port 10 GE with dual integrated dual DFC4-XL 6800 8-port 40GE with dual integrated dual DFC4-E 6800 8-port 40GE with dual integrated dual DFC4-EXL
<b>Fabric border and control plane node</b>	Cisco Catalyst 6880-X	C6880-X C6880-X-16P10G C6880-X-LE C6880-X-LE-16P10G	6880-X-chassis (XL tables) 6880-X multirate port card (XL tables) 6880-X-chassis (standard tables) 6880-X multirate port card (standard tables)
<b>Fabric border and control plane node</b>	Cisco Catalyst 6840-X	C6816-X-LE C6832-X-LE C6824-X-LE-40G C6840-X-LE-40G	6816-X-chassis (standard tables) 6832-X-chassis (standard tables) 6824-X-chassis and 2 x 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	7700 M3 Series 24-port 40G Ethernet module
		N77-M348XP-23L N77-M312CQ-26L	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
<b>Fabric border and control node</b>	4400 and 4300 Series ISRs	ASR1006-X	Cisco ASR 1006-X chassis
		ASR1009-X	Cisco ASR 1009-X chassis
		ISR4451-X	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
<b>Fabric control plane node</b>	CSR 1000v	ISR4221	4221 ISR with 2 onboard GE, 2 NIM slots, 1 ISC slot, 8 GB flash memory default, 4 GB DRAM default
		L-CSR-x-AX-xY=	CSR 1000v e-PAK x-year subscription y Speed AX package

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

Table 4. SD-Access wireless platform part numbers

Device role	Product family	Part number	Description
<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>	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		

Device role	Product family	Part number	Description
Fabric wireless node	Wave 1 access points	AIR-CAP3702X-x-K9	3700 Series Wave 1 access points
		AIR-CAP2702X-x-K9	2700 Series Wave 1 access points
		AIR-CAP1702X-x-K9	1700 Series Wave 1 Access Point

Table 5. Extended SD-Access platform part numbers

Device role	Product family	Part number	Description
Extended SD-Access 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 SD-Access in your network.

Table 6. 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	A la Carte/ C1 DNA Advantage	A la Carte/ C1 DNA Advantage	A la Carte/ C1 DNA Advantage	A la Carte/ C1 DNA Advantage	A la Carte/ C1 DNA Advantage	A la Carte/ C1 DNA Advantage	A la Carte/ C1 DNA Advantage
Cisco Catalyst 3650, 3850 Series		<input type="checkbox"/>	<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"/>	

Network Stack License (Base)	Lan-Lite	IP Base	IP Services	Enterprise Services	Ad. IP Services	Ad. IP Enterprise Services	Network Advantage
CDB	<input type="checkbox"/>						
3560-CX		<input type="checkbox"/>	<input type="checkbox"/>				

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

Network Stack License (Base)	LAN Enterprise, MPLS	AX/AppX	Ad. IP Services	Adv. Enterprise Services
Add-on License	A la Carte/C1 DNA Advantage	A la Carte/C1 DNA Advantage	A la Carte/C1 DNA Advantage	A la Carte/C1 DNA Advantage
Cisco Nexus 7700 Series- M3	<input type="checkbox"/>			
ASR-1000-X, ASR-1000-HX			<input type="checkbox"/>	<input type="checkbox"/>
4300, 4430, 4450, 4661 Series ISR		<input type="checkbox"/>		
CSR 100v		<input type="checkbox"/>		
C9800-80, C9800-40, C9800-CL, AIR-CT5520, AIR-CT8540, AIR-CT8510, AIR-CT3504				<input type="checkbox"/>
Wave2 APs (1800, 2800, 3800, 4800, 1560, 1540)				<input type="checkbox"/>

Network Stack License (Base)	LAN Enterprise, MPLS	AX/AppX	Ad. IP Services	Adv. Enterprise Services
Wave1 APs (1700, 2700, 3700)				<input type="checkbox"/>

**Notes:**

- Cisco DNA licenses require a minimum level of Base license on the device. The Base licenses are perpetual in nature.
- Cisco DNA licenses 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 + Cisco DNA Advantage is 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 SD-Access.
- Cisco DNA licenses can be purchased as a configuration option under most compatible hardware platforms (listed above), or can be purchased separately using A La Carte (ALC) and Cisco ONE Advantage SKUs.
- Cisco ONE Advantage is term based and available in 3-, 5-, and, in some cases, 7-year terms.
- Cisco ONE Advantage bundle includes Cisco DNA Advantage, ISE Base, ISE Plus, and Stealthwatch licenses. This bundle includes 25 ISE Base and ISE Plus sessions and 25 flows for a fixed 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.
- Cisco ONE Advantage 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.
- SD-Access Wireless requires Cisco DNA Advantage or Cisco ONE Advantage license per Access Point.
- SD-Access Embedded Wireless requires Cisco DNA Advantage or Cisco ONE Advantage license per Access Point.
- SD-Access requires ISE Base and ISE Plus licenses.
- Cisco Stealthwatch® is optional for SD-Access.

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

In most cases, Cisco DNA subscriptions can be added as an option when configuring 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 ONE 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 9300 Series licenses

Tables 8 and 9 list the part numbers for ordering of Cisco DNA Advantage for the Cisco Catalyst 9300 Series.

Table 8. 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>	<b>C9300 DNA Advantage, 24-port term licenses</b>
	C9300-DNA-A-24-3Y	C9300 DNA Advantage, 24-port, 3-year term license
	C9300-DNA-A-24-5Y	C9300 DNA Advantage, 24-port, 5-year term license
	C9300-DNA-A-24-7Y	C9300 DNA Advantage, 24-port, 7-year term license
	<b>C9300-DNA-A-48 (Greenfield) / C9300-DNA-A-48= (Brownfield)</b>	<b>C9300 DNA Advantage, 48-port term licenses</b>
	C9300-DNA-A-48-3Y	C9300 DNA Advantage, 48-port, 3-year term license
	C9300-DNA-A-48-5Y	C9300 DNA Advantage, 48-port, 5-year term license
	C9300-DNA-A-48-7Y	C9300 DNA Advantage, 48-port, 7-year term license



Table 9. Cisco ONE Software part numbers for Cisco DNA Advantage for the Cisco Catalyst 9300 Series

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

The base license for Cisco DNA Advantage or Cisco ONE 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 9400 Series licenses

Tables 10 and 11 list the part numbers for ordering of Cisco DNA Advantage for the Cisco Catalyst 9400 Series.

Table 10. 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 DNA Advantage, 3-year term license
	C9400-DNA-A-5Y	C9400 DNA Advantage, 5-year term license
	C9400-DNA-A-7Y	C9400 DNA Advantage, 7-year term license

Table 11. Cisco ONE Software part numbers for Cisco DNA Advantage for the Cisco Catalyst 9400 Series

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

The base license for Cisco DNA Advantage or Cisco ONE 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 12 lists the part numbers for a la carte ordering of Cisco DNA Advantage for the Cisco Catalyst 9500 Series.

Table 13 lists the part numbers for ordering through Cisco ONE.

Table 12. 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 DNA Advantage, low density term licenses</b>
	C9500-DNA-L-A-3Y	C9500 DNA Advantage, low density, 3-year term license
	C9500-DNA-L-A-5Y	C9500 DNA Advantage, low density, 5-year term license
	C9500-DNA-L-A-7Y	C9500 DNA Advantage, low density, 7-year term license
	<b>C9500-DNA-L-A (Greenfield)</b>	<b>C9500 DNA Advantage, high density term licenses</b>
	C9500-DNA-L-A-3Y	C9500 DNA Advantage, high density, 3-year term license
C9500-DNA-L-A-5Y	C9500 DNA Advantage, high density, 5-year term license	
C9500-DNA-L-A-7Y	C9500 DNA Advantage, high density, 7-year term license	

Table 13. Cisco ONE part numbers for Cisco DNA Advantage for the Cisco Catalyst 9500 Series

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

The base license for Cisco DNA Advantage or Cisco ONE 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 14, 15, 16, and 17 list the product IDs for ordering Cisco DNA Advantage or Cisco ONE Advantage licenses for the Cisco Catalyst 3850 Series.

Table 14. 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 DNA Advantage, 24-port term licenses</b>
	C3850-DNA-A-24-3Y	C3850 DNA Advantage, 24-port, 3-year term license
	C3850-DNA-A-24-5Y	C3850 DNA Advantage, 24-port, 5-year term license
	<b>C3850-DNA-A-48 (Greenfield)/ C3850-DNA-A-48= (Brownfield)</b>	<b>C3850 DNA Advantage, 48-port term licenses</b>
	C3850-DNA-A-48-3Y	C3850 DNA Advantage, 48-port, 3-year term license
	C3850-DNA-A-48-5Y	C3850 DNA Advantage, 48-port, 5-year term license

Table 15. Cisco ONE Software part numbers for Cisco DNA Advantage for the Cisco Catalyst 3850 Series

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

Table 16. 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 DNA Advantage, Low Port Term licenses</b>
	<b>C3850XS-DNA-L-A= (Brownfield)</b>	
	C3850XS-DNA-L-A-3Y	C3850 DNA Advantage, Low Port, 3 Year Term license
	C3850XS-DNA-L-A-5Y	C3850 DNA Advantage, Low Port, 5 Year Term license
	<b>C3850XS-DNA-A (Greenfield)</b>	<b>C3850 DNA Advantage, High Port Term licenses</b>
	<b>C3850XS-DNA-A= (Brownfield)</b>	
	C3850XS-DNA-A-3Y	C3850 DNA Advantage, High Port, 3 Year Term license
	C3850XS-DNA-A-5Y	C3850 DNA Advantage, High Port, 5 Year Term license

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

License type	Product ID	Description
Cisco ONE Advantage	<b>C1-CAT-ADD-T (Brownfield)</b>	<b>Top-level SKU</b>
	C1A1ATCAT38503 (Greenfield)	Cisco ONE Advantage term, C3850 12-port fiber
	C1A1ATCAT38504 (Greenfield)	Cisco ONE Advantage term, C3850 24-port fiber
	C1A1ATCAT38505 (Greenfield)	Cisco ONE Advantage 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 18 lists the product IDs for ordering Cisco DNA Advantage licenses for the Cisco Catalyst 3650 Series.

Table 18. 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 DNA Advantage, 24-port term licenses</b>
	<b>C3650-DNA-A-24= (Brownfield)</b>	
	C3650-DNA-A-24-3Y	C3650 DNA Advantage, 24-port, 3-year term license
	C3650-DNA-A-24-5Y	C3650 DNA Advantage, 24-port, 5-year term license
	<b>C3650-DNA-A-48 (Greenfield)</b>	<b>C3650 DNA Advantage, 48-port term licenses</b>
	<b>C3650-DNA-A-48= (Brownfield)</b>	
C3650-DNA-A-48-3Y	C3650 DNA Advantage, 48-port, 3-year term license	
C3650-DNA-A-48-5Y	C3650 DNA Advantage, 48-port, 5-year term license	

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 19. 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>C3560 DNA Advantage, 8-port term licenses</b>
	<b>C3560CX-DNA-A-8= (Brownfield)</b>	
	C3560CX-DNA-A-8-3	C3560 DNA Advantage, 8-port, 3-year term license
	C3560CX-DNA-A-8-5	C3560 DNA Advantage, 8-port, 5-year term license
	<b>C3560CX-DNA-A-12 (Greenfield)</b>	<b>C3560 DNA Advantage, 12-port term licenses</b>
	<b>C3560CX-DNA-A-12= (Brownfield)</b>	
C3560CX-DNA-A-12-3	C3560 DNA Advantage, 12-port, 3-year term license	
C3560CX-DNA-A-12-5	C3560 DNA Advantage, 12-port, 5-year term license	

Table 20. 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>Cisco Digital Building DNA Advantage, 24-port term licenses</b>
	<b>CDB-DNA-A-8= (Brownfield)</b>	
	CDB-DNA-A-8-3Y	
	CDB-DNA-A-8-5Y	
	CDB-DNA-A-8-7Y	
	Cisco Digital Building DNA Advantage, 24-port, 3-year term license	
	Cisco Digital Building DNA Advantage, 24-port, 5-year term license	
	Cisco Digital Building 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 SD-Access.

Tables 21 and 22 list the product IDs for ordering Cisco DNA Advantage or Cisco ONE Advantage licenses for the Cisco Catalyst 4500-E Series.

Table 21. A la carte part numbers for Cisco DNA Advantage for the Cisco Catalyst 4500-E Series

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

Table 22. Cisco ONE Software part numbers for Cisco DNA Advantage for the Cisco Catalyst 4500-E Series

License type	Product ID	Description
A la carte part numbers	<b>C1-CAT-ADD-T (Brownfield)</b>	<b>Top-level SKU</b>
	C1A1ATCAT4500S (Greenfield)	
	C1A1ATCAT4500X (Greenfield)	
	C1A2ATCAT4500X (Greenfield)	
	Cisco ONE Advantage Term C4500E	
	Cisco ONE Advantage Term 16/24 Port C4500X	
	Cisco ONE Advantage 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 and 6500-E Series licenses

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

Tables 23 and 24 list the part numbers for ordering Cisco DNA Advantage for the Cisco Catalyst 6840-X, 6880-X, 6500-E, and 6807-XL Series.

Table 23. 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	3 years
	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	3 years
	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	3 years
	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>	<b>C6880 High Density Term</b>
	C6880-DNA-A-3Y	3 years
	C6880-DNA-A-5Y	5 years
	C6880-DNA-A-7Y	7 years
	<b>C6840-DNA-A (Greenfield)</b> <b>C6840-DNA-A= (Brownfield)</b>	<b>C6840 High Density Term</b>
	C6840-DNA-A-3Y	3 years
	C6840-DNA-A-5Y	5 years
	C6840-DNA-A-7Y	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 24. 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 ONE Advantage</b>	<b>C1-CAT-ADD-T (Brownfield)</b> C1A1ATCAT65001 (Greenfield) C1A1ATCAT68071 (Greenfield) C1A1ATCAT68801 (Greenfield) C1A1ATCAT68401 (Greenfield) C1A1ATCAT68402 (Greenfield) C1AA1TCAT6500 (Greenfield) C1AA1TCAT6800 (Greenfield) C1AA1TCAT6840 (Greenfield)	<b>Top-level SKU</b> Cisco ONE Advantage Term C6500 Cisco ONE Advantage Term C6807 Cisco ONE Advantage Term C6880 Cisco ONE Advantage Low Term C6816/C6824 Cisco ONE Advantage High Term C6832/C6840 Cisco ONE Advantage Add-On Term, C6500 Cisco ONE Advantage Add-On Term, C6807/C6880 Cisco ONE Advantage Add-On Term, 6840



## Cisco Nexus 7700 Series licenses

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

Table 25 lists the part numbers for a la carte ordering of Cisco DNA Advantage for the Cisco Nexus 7700 Series.

Table 25. 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 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) and MPLS.

## Cisco Industrial Ethernet 4000 Series licenses

Table 26. 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 DNA Advantage (12 ports)</b>
	<b>IE4000-DNA-A-M (Greenfield) 24 ports/ IE4000-DNA-A-M=(Brownfield) 24 ports</b>	<b>IE 4000 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 27. 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) / IE4010-DNA-A-H= (Brownfield)</b>	<b>IE 4010 DNA Advantage</b>
	IE4010-DNA-A-H-3Y	3 Years
	IE4010-DNA-A-H-5Y	5 Years

## Cisco Industrial Ethernet 5000 Series licenses

Table 28. 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)/ IE5000-DNA-A-H= (Brownfield)</b>	<b>IE 5000 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, ISR 4300, ISR 4350, ISR 4450, and CSR 1000v support SD-Access.

ISR and CSR require an AppX license to be able to deploy SD-Access. Choose only hardware PIDs with the “-AX” suffix.

ASR requires either AIS or Advanced Enterprise Services license to be able to deploy SD-Access.

No additional add-on licenses are required at this point.

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

## Cisco Enterprise wireless licenses

Tables 29 and 30 list the product IDs for ordering Cisco DNA Advantage licenses for the Cisco wireless controllers and access points.

Table 29. A la carte part numbers for Cisco DNA Advantage for wireless controllers and access points

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

Table 30. Cisco ONE Software part numbers for Cisco DNA Advantage for wireless controllers and access points

License type	Product ID	Description
<b>Cisco ONE Advantage</b>	<b>C1-AIR-K9-T</b>	<b>Cisco ONE Advantage Term License, per AP</b>
	C1A1TAIRK9-3Y	Cisco ONE Advantage 3-year term license, per AP
	C1A1TAIRK9-5Y	Cisco ONE Advantage 5-year term license, per AP
	C1A1TAIRK9-7Y	Cisco ONE Advantage 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 ONE Advantage 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
- SD-Access Embedded Wireless can only be enabled on Cisco Catalyst 9300 series switches with per AP Cisco One/DNA Advantage license, in addition to license needed for the switch itself to work for 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 switch and AP bundles, specially priced SD-Access lab kit bundles, etc. To review all current offers, please go to: <https://cs.co/enpromotions>.

## 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.

### ISE Base session licensing

Table 31 shows the part numbers for perpetual ISE Base session licensing.

Table 31. Perpetual ISE Base session licenses

Part number (SKU)	Description
<b>L-ISE-BSE-100=</b>	Cisco ISE 100-session Base license
<b>L-ISE-BSE-250=</b>	Cisco ISE 250-session Base license
<b>L-ISE-BSE-500=</b>	Cisco ISE 500-session Base license
<b>L-ISE-BSE-1K=</b>	Cisco ISE 1000-session Base license
<b>L-ISE-BSE-1500=</b>	Cisco ISE 1500-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

Part number (SKU)	Description
<b>L-ISE-BSE-10K=</b>	Cisco ISE 10,000-session Base license
<b>L-ISE-BSE-25K=</b>	Cisco ISE 25,000-session Base license
<b>L-ISE-BSE-50K=</b>	Cisco ISE 50,000-session Base license
<b>L-ISE-BSE-100K=</b>	Cisco ISE 100,000-session Base license
<b>L-ISE-BSE-250K=</b>	Cisco ISE 250,000-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 29 shows ordering details for the 1-year subscription, Table 30 shows details for the 3-year subscription, and Table 31 shows details for the 5-year subscription.

Table 32. 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 33. 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 34. 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

## SD-Access appliances

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

## Identity Services Engine appliances

Cisco ISE provides the identity and access control policy functions for the 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 35. Cisco ISE support for SD-Access

Device role	Product family	Part number	Description
<b>Fabric access policy engine</b>	ISE (Identity Services Engine)	SNS-3515-K9	Small secure server for ISE applications
		SNS-3595-K9	Large secure server for ISE applications
		R-ISE-VM-K9=	Cisco ISE virtual machine image (eDelivery)
		R-ISE-5VM-K9=	Cisco ISE 5-bundle VM (eDelivery)
		R-ISE-10VM-K9=	Cisco ISE 10-bundle VM (eDelivery)



## Cisco DNA Center appliances

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

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

Table 36. Cisco DNA Center support for SD-Access

Device role	Product family	Part number	Description
Fabric controller	Cisco DNA Center	DN1-HW-APL	Cisco DNA controller for fabric automation and assurance
Fabric controller	Cisco DNA Center upgrade	DN1-HW-APL-U	Cisco DNA controller for fabric automation and assurance, available for customers that have previously purchased an APIC-EM physical appliance

The Cisco DNA Center appliance is available in a single form factor (Table 34).

Table 37. Cisco DNA Center appliance specifications

	Description
<b>Processor</b>	44 Core
<b>Memory</b>	256 GB
<b>PCIe slots</b>	2
<b>Power supply</b>	770 W
<b>Physical dimensions (H x W x D)</b>	Height: 1.7 in. (4.32 cm)
<b>Temperature: Operating</b>	Width: 16.89 in. (43.0 cm) including handles: 18.98 in. (48.2 cm)
<b>Temperature: Nonoperating</b>	Depth: 29.8 in. (75.6 cm) including handles: 30.98 in. (78.7 cm)
<b>Humidity: Operating</b>	1° to 95° F (5° to 35° C)

	Description
<b>Humidity: Non-operating</b>	5% to 93% at 82° F (28° C)
<b>Altitude: Operating</b>	0 to 3,000 m (0 to 10,000 ft)
<b>Altitude: Non-operating</b>	0 to 12,192 m (0 to 40,000 ft)

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 38 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 38. Cisco SD-Access Advise and Implement Services

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

For more details on Cisco Services offerings, go to [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>.