

Cisco SD-Access Ordering Guide

Steps for ordering SD-Access

This section provides a simplified process for ordering this solution:

1. Choose the required SD-Access platforms.
2. Choose the required software licenses (greenfield or brownfield) 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 that 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.

Table 1. SD-Access platform support summary

Fabric edge	Cisco Catalyst 9300 Series Switches Cisco Catalyst 9400 Series Switches (Sup1) Cisco Catalyst 3850 Series and 3650 Series Switches Cisco Catalyst 4500E Series Switches (Sup8E, Sup9E)
Fabric border and control plane	Cisco Catalyst 9500 Series Switches Cisco Catalyst 3850 Series Fiber Module Cisco Catalyst 6807-XL Switch (Sup6T, Sup2T) Cisco Catalyst 6500 Series Switches Cisco Catalyst 6880-X Switch Cisco Catalyst 6840-X Switch Cisco Nexus® 7700 Switch (Sup 2E, M3 line cards only) Cisco 4221, 4400 and 4300 Series Integrated Services Routers Cisco ASR 1000 Series Aggregation Services Routers Cisco Cloud Services Router 1000v (control plane only)
Extended SD-Access	Cisco Catalyst 3560-CX Series Cisco Catalyst Digital Building Series Switches
SD-Access wireless	802.11 Wave 2 access points: Cisco Aironet® 1800, 2800, and 3800 Series 802.11 Wave 1 access points: Cisco Aironet® 1700, 2700, and 3700 Series Cisco 3504, 5520 and 8540 Series Wireless Controllers

Note:

- Wave 1 access points won't 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.

Table 2. SD-Access fabric edge platform part numbers

Device role	Product family	Part number	Description
Fabric edge node	Cisco Catalyst 9300 Series	C9300-24T	24-port data switch
Fabric edge node		C9300-48T	48-port data switch
Fabric edge node		C9300-24P	24-port PoE+ switch
Fabric edge node		C9300-48P	48-port PoE+ switch
Fabric edge node		C9300-24U	24-port Cisco UPOE® switch
Fabric edge node		C9300-48U	48-port Cisco UPOE switch
Fabric edge node		C9300-24UX	24-port Multigigabit Cisco UPOE switch
Fabric edge node		C9300-48UXM	48-port Multigigabit Cisco UPOE switch
Fabric edge node	Cisco Catalyst 9400 Series	C9407R or C9410R with 9400-SUP-1 <ul style="list-style-type: none"> C9400-LC-48U C9400-LC-48UX 	Supervisor engine C9400-SUP-1 or C9400-SUP-1XL
Fabric edge node	Cisco Catalyst 3650 Series	WS-C3650-24TS	4 x Gigabit Ethernet with Small Form-Factor Pluggable (SFP)
Fabric edge node		WS-C3650-48TS	
Fabric edge node		WS-C3650-24PS	2 x 10 Gigabit Ethernet with SFP+ and 2 x 10 Gigabit Ethernet with SFP+ or 4 x Gigabit Ethernet with SFP
Fabric edge node		WS-C3650-48PS	
Fabric edge node		WS-C3650-48FS	
Fabric edge node		WS-C3650-24TD	
Fabric edge node		WS-C3650-48TD	
Fabric edge node		WS-C3650-24PD	
Fabric edge node		WS-C3650-24PDM	
Fabric edge node		WS-C3650-48PD	
Fabric edge node		WS-C3650-48FD	
Fabric edge node		WS-C3650-8X24PD	
Fabric edge node		WS-C3650-12X48FD	48 PoE+ (with 12 100-Mbps and 1-, 2.5-, 5-, and 10-Gbps ports)
Fabric edge node		WS-C3650-48TQ	4 x 10 Gigabit Ethernet with SFP+ or 4 x Gigabit Ethernet with SFP
Fabric edge node		WS-C3650-48PQ	
Fabric edge node		WS-C3650-48FQ	
Fabric edge node		WS-C3650-48FQM	
Fabric edge node		WS-C3650-8X24UQ	
Fabric edge node		WS-C3650-12X48UQ	
Fabric edge node		WS-C3650-12X48UR	
Fabric edge node	WS-C3650-12X48UZ	2 x 40 Gigabit Ethernet with QSFP+	
Fabric edge node	Cisco Catalyst 3850 Series	WS-C3850-24T	24-port data switch
Fabric edge node		WS-C3850-48T	48-port data switch
Fabric edge node		WS-C3850-24P	24-port PoE+ switch
Fabric edge node		WS-C3850-48P	48-port PoE+ switch
Fabric edge node		WS-C3850-48F	48-port PoE+ switch
Fabric edge node		WS-C3850-24U	24-port Cisco UPOE switch
Fabric edge node		WS-C3850-48U	48-port Cisco UPOE switch
Fabric edge node		WS-C3850-24XU	24-port Cisco UPOE (100 Mbps/1/2.5/5/10 Gbps) switch

Device role	Product family	Part number	Description
Fabric edge node		WS-C3850-12X48U	48-port Cisco UPOE (with 12 100 Mbps/1/2.5/5/10 Gbps ports) switch
Fabric edge node		WS-C3850-12S	12-port SFP switch
Fabric edge node		WS-C3850-24S	24-port SFP switch
Fabric edge, control and border node		WS-C3850-12XS	12-port 1/10G SFP+ switch
Fabric edge, control and border node		WS-C3850-24XS	24-port 1/10 Gbps SFP+ switch
Fabric edge, control and border node		WS-C3850-48XS	48-port 1/10 Gbps SFP+ switch
Fabric edge node	Cisco Catalyst 4500E Series	WS-X45-Sup9-E	Supervisor engine with 928 Gbps of wired access with an E-Series chassis
Fabric edge node		WS-X45-Sup8-E	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 9500 Series	C9500-12Q	12-port 40 Gigabit Ethernet with QSFP
Fabric control and border node		C9500-24Q	24-port 40 Gigabit Ethernet with QSFP+
Fabric control and border node		C9500-40X	40-port 10 Gigabit Ethernet with SFP+
Fabric edge, control and border node		WS-C3850-12XS	12-port 1/10 Gbps SFP+ switch
Fabric edge, control and border node		WS-C3850-24XS	24-port 1/10 Gbps SFP+ switch
Fabric edge, control and border node		WS-C3850-48XS	48-port 1/10 Gbps SFP+ switch
Fabric border and control plane node	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
Fabric border and control plane node		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
Fabric border and control plane node	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)
Fabric border and control plane node	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
Fabric border node (default border)	Cisco Nexus 7700 Series	N77-M324FQ-25L	7700 M3 Series 24-port 40G Ethernet module
Fabric border node		N77-M348XP-23L	Nexus 7700 M3-Series 48-port 1/10G Ethernet module
Fabric border node		N77-M312CQ-26L	Cisco Nexus 7700 M3-Series 12-port 100G Ethernet module
Fabric border and control node	ASR 1000 Series	ASR1001-X	Cisco ASR 1001-X System, Crypto, 6 built-in GE, dual P/S
Fabric border and control node		ASR 1001-HX	Cisco ASR1001-HX System, 8x 10 GE + 8x 1 GE, 2x P/S, optional crypto
Fabric border and control node		ASR1002-HX	Cisco ASR 1002-HX System, 4x 10 GE + 4x 1 GE built-in, dual P/S, optional crypto
Fabric border and control node		ASR1002-X	Cisco ASR 1002-X System, crypto, 6 built-In GE, dual P/S
Fabric border and control node		ASR1006-X	Cisco ASR 1006-X chassis
Fabric border and control node		ASR1009-X	Cisco ASR 1009-X chassis
Fabric border and control node		4400 and 4300 Series ISRs	ISR4451-X
Fabric border and control node	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)
Fabric border and control node	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
Fabric border and control node	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
Fabric border and control node	ISR4221		4221 ISR with 2 onboard GE, 2 NIM slots, 1 ISC slot, 8 GB flash memory default, 4 GB DRAM default
Fabric control plane node	CSR 1000v	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
Fabric wireless node	Wireless LAN controllers	AIR-CT5520-K9	5520 Wireless LAN controller
Fabric wireless node		AIR-CT8540-K9	8540 Wireless LAN controller
Fabric wireless node		AIR-CT3504-K9	3504 Wireless LAN controller
Fabric wireless node	Wave 2 access points	AIR-AP3802X-x-K9	3800 Series access points
Fabric wireless node		AIR-AP2802X-x-K9	2800 Series access points
Fabric wireless node		AIR-AP1832X-x-K9	1830 Series access points
Fabric wireless node		AIR-AP1852X-x-K9	1850 Series access points
Fabric wireless node		AIR-AP1815X-x-K9	1815 Series Wave 2 access points
Fabric wireless node		AIR-AP1810X-x-K9	1810 Series Wave 2 access points
Fabric wireless node		Wave 1 access points	AIR-CAP3702X-x-K9
Fabric wireless node	AIR-CAP2702X-x-K9		2700 Series Wave 1 access points
Fabric wireless node	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	8 x 1GE, 2 x 1G copper (UPOE) uplinks, 8 PoE+, 146W
	C3560CX-8XPD-S	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	

Cisco SD-Access software licenses

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

Table 6. SD-Access platform license combinations

Network stack licenses (Base)	Add-on license		Cisco Catalyst 3650, 3850 Series copper	Cisco Catalyst 9300 Series	Cisco Catalyst 4500E (Sup8E, Sup9E)	Cisco Catalyst 9400 Series	Cisco Catalyst 3850 Series Fiber	Cisco Catalyst 9500 Series	Sup 2T (6500-E, 6807-XL)	Sup 6T (6500-E, 6807-XL), 6840-X	Cisco Nexus 7700 Series- M3	ASR-1000-X, ASR-1000-HX	4300, 4430, 4450 Series ISR	CSR 1000v	AIR-CT5520, AIR-CT5540, AIR-CT5540	Wave2 APs (1800, 2800, 3800)	Wave1 APs (1700, 2700, 3700)	CDB	3560-CX	
	A la carte	C1																		
LAN Lite	Cisco DNA™ Advantage	Cisco ONE Advantage																	✓	
IP Base	Cisco DNA Advantage	Cisco ONE Advantage	✓		✓		✓		✓											✓
IP Services	Cisco DNA Advantage	Cisco ONE Advantage	✓				✓		✓	✓										✓
Enterprise Services	Cisco DNA Advantage	Cisco ONE Advantage			✓															
Ad. IP Services	Cisco DNA Advantage	Cisco ONE Advantage							✓											
Ad. Enterprise Services	Cisco DNA Advantage	Cisco ONE Advantage							✓	✓										
Network Advantage	Cisco DNA Advantage	Cisco ONE Advantage		✓		✓		✓												
LAN Enterprise	Cisco DNA Advantage	Cisco ONE Advantage										✓								
AX/AppX													✓	✓						
Ad. IP Services												✓								

Network stack licenses (Base)	Add-on license		Cisco Catalyst 3650, 3850 Series copper	Cisco Catalyst 9300 Series	Cisco Catalyst 4500E (Sup8E, Sup9E)	Cisco Catalyst 9400 Series	Cisco Catalyst 3350 Series Fiber	Cisco Catalyst 9500 Series	Sup 2T (6500-E, 6807-XL)	Sup 6T (6500-E, 6807-XL), 6840-X	Cisco Nexus 7700 Series- M3	ASR-1000-X, ASR-1000-HX	4300, 4430, 4450 Series ISR	CSR 1000v	AIR-CT5520, AIR-CT8540, AIR-	Wave2 APs (1800, 2800, 3800)	Wave1 APs (1700, 2700, 3700)	CDB	3560-CX
	A la carte	C1																	
Ad. Enterprise Services												✓							
	Cisco DNA Advantage	Cisco ONE Advantage													✓	✓	✓		

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.
- SD-Access requires ISE Base and ISE Plus licenses.
- Cisco Stealthwatch® is optional 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.

The following sections list the detailed SKUs required to be able 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 7 and 8 list the part numbers for ordering of Cisco DNA Advantage for the Cisco Catalyst 9300 Series.

Table 7. 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	C9300-DNA-A-24 (Greenfield)/ C9300-DNA-A-24= (Brownfield)	C9300 DNA Advantage, 24-port term licenses
	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
	C9300-DNA-A-48 (Greenfield) / C9300-DNA-A-48= (Brownfield)	C9300 DNA Advantage, 48-port term licenses
	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 8. Cisco ONE Software part numbers for Cisco DNA Advantage for the Cisco Catalyst 9300 Series

License type	Product ID	Description
Cisco ONE Advantage	C1-CAT-ADD-T (Brownfield)	Top-level SKU
	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. As such, only hardware PIDs with the “-A” suffix must be chosen.

Cisco Catalyst 9400 Series licenses

Tables 9 and 10 list the part numbers for ordering of Cisco DNA Advantage for the Cisco Catalyst 9400 Series.

Table 9. 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	C9400-DNA-A (Greenfield)/ C9400-DNA-A= (Brownfield)	Top-level SKU
	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 10. Cisco ONE Software part numbers for Cisco DNA Advantage for the Cisco Catalyst 9400 Series

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

The base license for Cisco DNA Advantage or Cisco ONE Advantage is Network Advantage. As such, only hardware PIDs with the “-A” suffix must be chosen.

Cisco Catalyst 9500 Series licenses

Table 11 lists the part numbers for a la carte ordering of Cisco DNA Advantage for the Cisco Catalyst 9500 Series.

Table 12 lists the part numbers for ordering through Cisco ONE.

Table 11. 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	C9500-DNA-L-A (Greenfield)	C9500 DNA Advantage, low density term licenses
	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
	C9500-DNA-A (Greenfield)	C9500 DNA Advantage, high density term licenses
	C9500-DNA-A-3Y	C9500 DNA Advantage, high density, 3-year term license
	C9500-DNA-A-5Y	C9500 DNA Advantage, high density, 5-year term license
C9500-DNA-A-7Y	C9500 DNA Advantage, high density, 7-year term license	

Table 12. Cisco ONE part numbers for Cisco DNA Advantage for the Cisco Catalyst 9500 Series

License type	Product ID	Description
Cisco ONE Advantage	C1-CAT-ADD-T (Brownfield)	Top-level SKU
	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. As such, only hardware PIDs with the “-A” suffix must be chosen.

Cisco Catalyst 3850 Series licenses

Tables 13, 14, 15, and 16 list the product IDs for ordering Cisco DNA Advantage or Cisco ONE Advantage licenses for the Cisco Catalyst 3850 Series.

Table 13. 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	C3850-DNA-A-24 (Greenfield) / C3850-DNA-A-24= (Brownfield)	C3850 DNA Advantage, 24-port term licenses
	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
	C3850-DNA-A-48 (Greenfield) C3850-DNA-A-48= (Brownfield)	C3850 DNA Advantage, 48-port term licenses
	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 14. Cisco ONE Software part numbers for Cisco DNA Advantage for the Cisco Catalyst 3850 Series

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

Table 15. 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	C3850XS-DNA-L-A (Greenfield) C3850XS-DNA-L-A= (Brownfield)	C3850 DNA Advantage, Low Port Term licenses
	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
	C3850XS-DNA-A (Greenfield) C3850XS-DNA-A= (Brownfield)	C3850 DNA Advantage, High Port Term licenses
	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 16. Cisco ONE Software part numbers for Cisco DNA Advantage for the Cisco Catalyst 3850 Series (fiber)

License type	Product ID	Description
Cisco ONE Advantage	C1-CAT-ADD-T (Brownfield)	Top-level SKU
	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. As such, only hardware PIDs with the “-S” or “-E” suffix must be chosen. Note that when the base license is IP Base, you are limited to only three virtual networks.

Cisco Catalyst 3650 Series licenses

Table 17 lists the product IDs for ordering Cisco DNA Advantage licenses for the Cisco Catalyst 3650 Series.

Table 17. 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	C3650-DNA-A-24 (Greenfield) C3650-DNA-A-24= (Brownfield)	C3650 DNA Advantage, 24-port term licenses
	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
	C3650-DNA-A-48 (Greenfield) C3650-DNA-A-48= (Brownfield)	C3650 DNA Advantage, 48-port term licenses
	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. As such, only hardware PIDs with the “-S” or “-E” suffix must be chosen. 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 18. A la carte part numbers for Cisco DNA Advantage for the Cisco Catalyst Compact 3560 Series

License type	Product ID	Description
A la carte part numbers	C3560CX-DNA-A-8 (Greenfield) C3560CX-DNA-A-8= (Brownfield)	C3560 DNA Advantage, 8-port term licenses
	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
	C3560CX-DNA-A-12 (Greenfield) C3560CX-DNA-A-12= (Brownfield)	C3560 DNA Advantage, 12-port term licenses
	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 19. 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	CDB-DNA-A-8 (Greenfield) CDB-DNA-A-8= (Brownfield)	Cisco Digital Building DNA Advantage, 24-port term licenses
	CDB-DNA-A-8-3Y	Cisco Digital Building DNA Advantage, 24-port, 3-year term license
	CDB-DNA-A-8-5Y	Cisco Digital Building DNA Advantage, 24-port, 5-year term license
	CDB-DNA-A-8-7Y	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 20 and 21 list the product IDs for ordering Cisco DNA Advantage or Cisco ONE Advantage licenses for the Cisco Catalyst 4500-E Series.

Table 20. 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	C4500E-DNA-A (Greenfield) C4500E-DNA-A= (Brownfield)	C4500E DNA Advantage term license
	C4500E-DNA-A-3Y	C4500E DNA Advantage 3-year term license
	C4500E-DNA-A-5Y	C4500E DNA Advantage 5-year term license
	C4500E-DNA-A-7Y	C4500E DNA Advantage 7-year term license

Table 21. 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	C1-CAT-ADD-T (Brownfield)	Top-level SKU
	C1A1ATCAT4500S (Greenfield)	Cisco ONE Advantage Term C4500E
	C1A1ATCAT4500X (Greenfield)	Cisco ONE Advantage Term 16/24 Port C4500X
	C1A2ATCAT4500X (Greenfield)	Cisco ONE Advantage Term 32 Port C4500X

The required base license for Cisco DNA Advantage is IP Base or Enterprise Services. As such, only hardware PIDs with the “-IPB” or “-ES” suffix must be selected. 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 22 and 23 list the part numbers for ordering Cisco DNA Advantage for the Cisco Catalyst 6840-X, 6880-X, 6500-E, and 6807-XL Series.

Table 22. 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	C6840-DNA-L-A (Greenfield) C6840-DNA-L-A= (Brownfield)	C6840 Low Density Term
	C6840-DNA-L-A-3Y	3 years
	C6840-DNA-L-A-5Y	5 years
	C6840-DNA-L-A-7Y	7 years
	C6500-DNA-A (Greenfield) C6500-DNA-A= (Brownfield)	C6500 High Density Term
	C6500-DNA-A-3Y	3 years
	C6500-DNA-A-5Y	5 years
	C6500-DNA-A-7Y	7 years
	C6807-DNA-A (Greenfield) C6807-DNA-A= (Brownfield)	C6807 High Density Term
	C6807-DNA-A-3Y	3 years
	C6807-DNA-A-5Y	5 years
	C6807-DNA-A-7Y	7 years
	C6880-DNA-A (Greenfield) C6880-DNA-A= (Brownfield)	C6880 High Density Term
	C6880-DNA-A-3Y	3 years
	C6880-DNA-A-5Y	5 years
	C6880-DNA-A-7Y	7 years
	C6840-DNA-A (Greenfield) C6840-DNA-A= (Brownfield)	C6840 High Density Term
	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 23. Cisco ONE Software part numbers for Cisco DNA Advantage for the Cisco Catalyst 6800 and 6500-E Series

License type	Product ID	Description
Cisco ONE Advantage	C1-CAT-ADD-T (Brownfield)	Top-level SKU
	C1A1ATCAT65001 (Greenfield)	Cisco ONE Advantage Term C6500
	C1A1ATCAT68071 (Greenfield)	Cisco ONE Advantage Term C6807
	C1A1ATCAT68801 (Greenfield)	Cisco ONE Advantage Term C6880
	C1A1ATCAT68401 (Greenfield)	Cisco ONE Advantage Low Term C6816/C6824
	C1A1ATCAT68402 (Greenfield)	Cisco ONE Advantage High Term C6832/C6840
	C1AA1TCAT6500 (Greenfield)	Cisco ONE Advantage Add-On Term, C6500
	C1AA1TCAT6800 (Greenfield)	Cisco ONE Advantage Add-On Term, C6807/C6880
	C1AA1TCAT6840 (Greenfield)	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 24 lists the part numbers for a la carte ordering of Cisco DNA Advantage for the Cisco Nexus 7700 Series.

Table 24. 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	N7000-DNA-A (greenfield) / N7000-DNA-A= (brownfield)	Nexus 7000 DNA Advantage
	N7000-DNA-A-3YR	3 Years
	N7000-DNA-A-5YR	5 Years
	N7000-DNA-A-7YR	7 Years

Please 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 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. As such, only hardware PIDs with the “-AX” suffix must be chosen.

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.

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

Cisco Enterprise wireless licenses

Tables 25 and 26 list the product IDs for ordering Cisco DNA Advantage licenses for the Cisco wireless controllers and access points.

Table 25. 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	AIR-DNA (Brownfield)	Wireless DNA Advantage Term License, per AP
	AIR-DNA-A-3Y (Greenfield)	Wireless DNA Advantage 3-year term license, per AP
	AIR-DNA-A-5Y (Greenfield)	Wireless DNA Advantage 5-year term license, per AP
	AIR-DNA-A-7Y (Greenfield)	Wireless DNA Advantage 7-year term license, per AP
	AIR-DNA-UPG (Brownfield)	Wireless DNA Advantage Upgrade Term License, per AP
AIR-DNA-A-UPG-3Y (Greenfield)	Wireless DNA Advantage 3-year term license, per AP	

Table 26. Cisco ONE Software part numbers for Cisco DNA Advantage for wireless controllers and access points

License type	Product ID	Description
Cisco ONE Advantage	C1-AIR-K9-T (Brownfield)	Cisco ONE Advantage Term License, per AP
	C1-AIR-UPG-T (Brownfield)	Cisco ONE Advantage Upgrade 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

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: 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 27 shows the part numbers for perpetual ISE Base session licensing.

Table 27. Perpetual ISE Base session licenses

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

Part number (SKU)	Description
L-ISE-BSE-1500=	Cisco ISE 1500-session Base license
L-ISE-BSE-2500=	Cisco ISE 2500-session Base license
L-ISE-BSE-3500=	Cisco ISE 3500-session Base license
L-ISE-BSE-5K=	Cisco ISE 5000-session Base license
L-ISE-BSE-10K=	Cisco ISE 10,000-session Base license
L-ISE-BSE-25K=	Cisco ISE 25,000-session Base license
L-ISE-BSE-50K=	Cisco ISE 50,000-session Base license
L-ISE-BSE-100K=	Cisco ISE 100,000-session Base license
L-ISE-BSE-250K=	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 28 shows ordering details for the 1-year subscription, Table 29 shows details for the 3-year subscription, and Table 30 shows details for the 5-year subscription.

Table 28. Ordering details for the 1-year ISE Plus session subscription

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

Table 29. Ordering details for the 3-year ISE Plus session subscription

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

Term license	Subscription term	Description
L-ISE-PLS-S-50K=	ISE-PLS-3YR-50K	Cisco ISE 3-Yr 50,000-session Plus license
L-ISE-PLS-S-100K=	ISE-PLS-3YR-100K	Cisco ISE 3-Yr 100,000-session Plus license
L-ISE-PLS-S-250K=	ISE-PLS-3YR-250K	Cisco ISE 3-Yr 250,000-session Plus license

Table 30. Ordering details for the 5-year ISE Plus session subscription

Term license	Term subscription	Description
L-ISE-PLS-S-100=	ISE-PLS-5YR-100	Cisco ISE 5-Yr 100 Session Plus License
L-ISE-PLS-S-250=	ISE-PLS-5YR-250	Cisco ISE 5-Yr 250 Session Plus License
L-ISE-PLS-S-500=	ISE-PLS-5YR-500	Cisco ISE 5-Yr 500 Session Plus License
L-ISE-PLS-S-1K=	ISE-PLS-5YR-1K	Cisco ISE 5-Yr 1K Session Plus License
L-ISE-PLS-S-1500=	ISE-PLS-5YR-1500	Cisco ISE 5-Yr 1500 Session Plus License
L-ISE-PLS-S-2500=	ISE-PLS-5YR-2500	Cisco ISE 5-Yr 2500 Session Plus License
L-ISE-PLS-S-3500=	ISE-PLS-5YR-3500	Cisco ISE 5-Yr 3500 Session Plus License
L-ISE-PLS-S-5K=	ISE-PLS-5YR-5K	Cisco ISE 5-Yr 5K Session Plus License
L-ISE-PLS-S-10K	ISE-PLS-5YR-10K	Cisco ISE 5-Yr 10K Session Plus License
L-ISE-PLS-S-25K=	ISE-PLS-5YR-25K	Cisco ISE 5-Yr 25K Session Plus License
L-ISE-PLS-S-50K=	ISE-PLS-5YR-50K	Cisco ISE 5-Yr 50K Session Plus License
L-ISE-PLS-S-100K=	ISE-PLS-5YR-100K	Cisco ISE 5-Yr 100K Session Plus License
L-ISE-PLS-S-250K=	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 policy and access control 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 comes 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 31. Cisco ISE support for SD-Access

Device role	Product family	Part number	Description
Fabric access policy engine	ISE (Identity Services Engine)	SNS-3515-K9	Small secure network 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)

Please refer to the ordering guide for ISE licensing.

https://www.cisco.com/c/dam/en/us/products/collateral/security/identity-services-engine/guide_c07-656177.pdf

Cisco DNA Center appliances

Table 32. 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 33).

Table 33. Cisco DNA Center appliance specifications

	Description
Processor	44 Core
Memory	256 GB
PCIe slots	2
Power supply	770 W
Physical dimensions (H x W x D)	Height: 1.7 in. (4.32 cm) Width: 16.89 in. (43.0 cm) including handles: 18.98 in. (48.2 cm) Depth: 29.8 in. (75.6 cm) including handles: 30.98 in. (78.7 cm)
Temperature: Operating	1° to 95° F (5° to 35° C) derate the maximum temperature by 1°C per every 1000 ft. (305 m) of altitude above sea level
Temperature: Nonoperating	-40° to 149°F (-40° to 65° C)
Humidity: Operating	10% to 90%, non-condensing at 82° F (28° C)
Humidity: Non-operating	5% to 93% at 82° F (28° C)
Altitude: Operating	0 to 3,000 m (0 to 10,000 ft)
Altitude: Non-operating	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 34 lists 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 34. Cisco SD-Access Advise and Implement Services

Product ID	Service name
AS-DNA-SDA-CNSLT	DNA Advisory for SD-Access
AS-SEC-ADVIS	Segmentation Service
AS-DNA-SDA-CNSLT	DNA Center Advise and Implement
AS-DNA-SDA-CNSLT	SD-Access Design
AS-DNA-SDA-CNSLT	SD-Access Operations Planning
CON-AS-ISE	Security Implementation for ISE
CON-AS-SW	Security Implementation for Stealthwatch
AS-DNA-SDA-CNSLT	SD-Access Migration
AS-DNA-SDA-CNSLT	Network Migration Upgrade
AS-BN-T-CNSLT	SD-Access Solutions Validation
CON-AS-TEST-BN	SD-Access Solution Validation Optimization
CON-AS-BN, CON-AS-OSS-BN or CON-AS-SEC	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, please visit <https://www.cisco.com/c/en/us/solutions/enterprise-networks/software-defined-access/index.html>.



Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

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