

Cisco DNA Software Subscription Matrix for Switching



	Network Essentials	Network Advantage	Cisco DNA Essentials	Cisco DNA Advantage
License type	Perpetual license compatible with Cisco DNA Essentials. Cannot be purchased as a standalone license	Perpetual license compatible with Cisco DNA Advantage. Cannot be purchased as a standalone license	3/5/7 year term subscription	Includes Cisco DNA Essentials, 3/5/7 year term subscription
Management options	Manual, WebUI	Manual, WebUI	Automation through Cisco DNA Center including Manual, WebUI	Automation through Cisco DNA Center including Manual, WebUI

Features

	Network Essentials	Network Advantage	Cisco DNA Essentials	Cisco DNA Advantage
Essential switch capabilities Layer 2, routed access, OSPF, PBR, PIM Stub Multicast, PVLAN, VRRP, PBR, Cisco Discovery Protocol, QoS, FHS, 802.1X, MACsec-128, CoPP, SXP, IP SLA responder, SSO, Stackwise (9300/9200).	✓	✓		
L3 Routed access L3 Routed access (RIP, EIGRP Stub, OSPF (1000 routes)).	✓	✓		
Programmability, NETCONF/RESTCONF/gRPC/YANG Model-driven programmability lets you automate configuration and control of your network devices with programmable interfaces.	✓	✓		
Zero Touch Provisioning Automated provisioning of a new Cisco switch using the Zero Touch Provisioning functionality built into the switch.	✓	✓		
128-bit MACsec encryption Configure 128-bit MACSEC for authenticating and encrypting packets between MACsec-capable devices.	✓	✓		
Advanced telemetry SPAN, RSPAN Manual/CLI or WebUI configuration of SPAN, RSPAN for providing near real-time access to operational statistics. No automation through Cisco DNA Center.	✓	✓		
Streaming telemetry and visibility Model-driven telemetry lets you monitor your network by streaming data from network devices, continuously providing near-real-time access to operational statistics.	✓	✓		
Cisco trustworthy solutions Help ensure hardware and software authenticity for supply chain trust and strong mitigation against man-in-the-middle attacks that compromise software and firmware.	✓	✓		
Software Image Management (SWIM) Manually manage software upgrades and control the consistency of image versions through CLI or WebUI. Automation through Cisco DNA Center not supported.	✓	✓		
Full L3 routing functionality BGP*, OSPF, IS-IS*.		✓		
Flexible network segmentation VRF*, VXLAN, LISP*, SGT, MPLS*, BGP-EVPN with VXLAN*.		✓		
High availability Support operational continuity and maintain availability during routine maintenance, and perform disaster recovery. NSF*, GiR*, HSRP, Stackwise Virtual*, ISSU*/eFSU*.		✓		
Patch/SMU lifecycle management*** Manual/CLI operations or through WebUI only. Automation through Cisco DNA Center not supported.		✓		
Optimize bandwidth utilization (Advanced Multicast) Multicast is used between routers so they can track which multicast packets to forward to each other and to their directly connected LANs. RP Discovery*, PIM BI-DIR*.		✓		
256-bit MACsec encryption Configure 256-bit MACSEC* for authenticating and encrypting packets between MACsec-capable devices.		✓		
Audio Video Bridging Cisco AVB simplifies digitization of audio and video and offers superior quality of experience with standards like IEEE1588v2 PTPv2, AES67 timing profile.		✓		
Full Flexible NetFlow This next generation in flow technology optimizes the network infrastructure, reducing operating costs and improving capacity planning and security incident detection. (License is required for Manual/CLI, WebUI or automated Cisco DNA Center configuration).			✓	✓
Cisco IOS Embedded Event Manager (EEM) EEM is a powerful and flexible subsystem that provides real-time network event detection and onboard automation. It gives you the ability to adapt the behavior of your network devices to align with your business needs.			✓	✓
Software Image Management (SWIM) Automate software upgrades and control the consistency of image versions through Cisco DNA Center.			✓	✓
Overall health dashboard Gives a high-level overview of the health of every network device/client on the network, wired and wireless, Cisco and Meraki, managed by Cisco DNA Center.			✓	✓
Overall health dashboard for Device, Network, Application and Client for 24 hours only Gives a high-level overview of the health of wired network devices/clients on the network, managed by Cisco DNA Center.			✓	✓
Network Plug and Play (PnP) provisioning application Zero-touch provisioning for new device installation of Cisco devices to be provisioned simply by connecting to the network, managed by Cisco DNA Center.			✓	✓
Cisco Local Area Bonjour This software-defined, controller-less solution enables Bonjour services discovery and advertisement at for local cache discovery and distribution functions between VLANs. License is required for both manual/CLI configuration or automation through Cisco DNA Center.			✓	✓
Out of box reports Cisco DNA Center pre-built reports that can be consumed directly or exported to third party tools such as Tableau.				✓
Cisco DNA Spaces Extend A powerful end-to-end, indoor location services cloud platform that extends platform capabilities via integrations and partner applications. Includes Cisco DNA Spaces See. Available for Cisco Catalyst 9300 and 9400 Series Switches.				✓
Cisco ThousandEyes Network and Application Synthetics** Deliver superior network and application experience with Cisco ThousandEyes, now integrated into Cisco Catalyst 9300 and 9400 series switches.				✓
Cisco SD-Access Fabric, Segmentation, and eWC Enables policy-based automation with secure segmentation, complete visibility, and delivery of new services quickly on SD-Access devices, managed by Cisco DNA Center only.				✓
Cisco AI Network Analytics AI and machine learning technologies are implemented on Cisco DNA Center and in the AI Network Analytics cloud to enhance the insight and remediation capabilities of Cisco DNA Assurance.				✓
Cisco SD-Access AI Endpoint Analytics Identify and check compliance of endpoints, and use AI/ML techniques to classify them into groups.				✓
Cisco SD-Access Group-Based Policy Analytics Makes segmentation policy simpler by discovering traffic flows between scalable groups to determine the right policies.				✓
Cisco SD-Access AI Trust Analytics Verifies that connected endpoints are legitimate. Use this information to define security policies that isolate rogue or compromised endpoints to reduce threat proliferation.				✓
LAN automation Automate configurations and deployment of networks with Cisco DNA Center.				✓
Patch/SMU lifecycle management Automated management of SMU/Patches patching by Cisco DNA Center.				✓
Compliance Compliance reports managed by Cisco DNA Center.				✓
IPSec Supports upto 100G HW encryption on Catalyst 9300X. It enabled high-bandwidth secure L3 transport between sites or from site to cloud.				✓
Device 360, Client 360, and Network Health Insights Display devices and client connectivity from any angle or context, providing for very granular troubleshooting in seconds.				✓
Application policy creation Assign policies to applications based on business relevance and business-critical QoS priority for life-saving devices, for example through Cisco DNA Center.				✓
Application hosting Allows third-party applications to be hosted in a secure container environment on the switch. License is required for both manual/CLI configuration or automation through Cisco DNA Center.				✓
Third-party API integration A flexible framework is provided to integrate third-party application software.				✓
Encrypted Traffic Analytics (ETA)*: (No Stealthwatch License Included) Detect malware within encrypted traffic. License is required for both manual/CLI configuration or automation through Cisco NA Center.				✓
Cisco Wide Area Bonjour This software-defined, controller-based solution enables Bonjour services discovery and advertisement at scale across multiple domains. License is required for both manual/CLI configuration or automation through Cisco DNA Center.				✓
ERSPAN* Monitor and re-direct traffic. License is required for both manual/CLI configuration or automation through Cisco DNA Center.				✓
Wireshark* Packet capture for analysis. License is required for both manual/CLI configuration or automation through Cisco DNA Center.				✓
AVC (NBAR2)* Gain application visibility and control through Next-Generation Network-Based Application Recognition. License is required for both manual/CLI configuration or automation through Cisco DNA Center.				✓
Cisco Prime Infrastructure License Provides a single integrated solution for comprehensive lifecycle management of the wired or wireless access, campus, and branch networks, and rich visibility into end-user connectivity and application performance assurance issues. Only available on the Catalyst 9000 switches, not on legacy switches.				✓
Support				
E-LLW 90 days of Cisco TAC support; local business hours, 8x5; Hardware replacement (next business day where available); Warranty duration is lifespan of hardware product; OS software updates and upgrades.	✓	✓		
SWSS Software Support Service in the subscription software stack includes 24-hour TAC support and software updates and upgrades in Cisco DNA Center.			✓	✓
SNTC Smart Net Total Care, 24-hour hardware and network software stack support provided by TAC.	Optional	Optional		

The **Cisco DNA Expansion Pack** is a flexible way to purchase Cisco ISE, Cisco DNA Spaces, Secure Network Analytics (Stealthwatch), ThousandEyes and other licenses, appliances, and services in one convenient bundle. Enhance your Cisco networking solutions such as SD-Access, Zero Trust solutions, Encrypted Traffic Analytics (ETA), location analytics, and assurance. You can add the pack to your Cisco DNA software licenses and choose the license count that fits your needs. For more details, [contact](#) a Cisco sales or Cisco registered partner.

* - Not supported on all platforms
 **Each Catalyst 9300 or 9400 Cisco DNA Advantage subscription entitles the customer to run the equivalent of one ThousandEyes network or web test every 5 mins from a ThousandEyes enterprise agent (22 units per month), up to a maximum of 110,000 units per month of ThousandEyes test capacity per customer. ThousandEyes Cloud Agent access is not included in the Cisco DNA license entitlement. Test capacity can be increased and Cloud Agents accessed with purchase of additional ThousandEyes Network and Application Synthetics.
 ***Supported on Network Advantage from Cisco IOS XE Fuji 16.9.7 onwards. Prior to Cisco IOS XE Fuji 16.9.7, Cisco DNA Advantage is also required.