Cisco DNA Software Subscription Matrix for Switching

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

Features

	Network Essentials	Network Advantage	Cisco DNA Essentials	Cisco DNA Advantage	Cisco DNA Premier
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). Limited functionality in Cisco DNA Center cloud.	✔	✔			
L3 Routed access L3 Routed access (RIP, EIGRP Stub, OSPF (1000 routes)). For Cisco DNA Center Cloud- supported via "CLI" and "CLI Template" functionality.	✔	✔			
Programmability, NETCONF/RESTCONF/gRPC/YANG Model-driven programmability lets you automate configuration and control of your network devices with programmable interfaces. For Cisco DNA Center Cloud- supported via "CLI" and "CLI Template" functionality.	✔	✔			
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*. For Cisco DNA Center Cloud- supported via "CLI" and "CLI Template" functionality.		✔			
Flexible network segmentation VRF*, VXLAN, LISP,* SGT, MPLS*, BGP-EVPN with VXLAN*. For Cisco DNA Center Cloud- supported via "CLI" and "CLI Template" functionality.		✔			
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.		✔			
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.			✔	✔	✔
LAN automation Automate configurations and deployment of networks with 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. Limited functionality in Cisco DNA Center cloud.			✔	✔	✔
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.			✔	✔	✔
SD-Access and Network Health insights (ISE licenses included only in Premier) 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 AI Endpoint Analytics Identify and check compliance of endpoints, and use AI/ML techniques to classify them into groups.				✔	✔
Group-Based Policy Analytics Get visual traffic flows between endpoint groups, so you can define the right segmentation policies.				✔	✔
Cisco User-Defined Network Allows IT to give end-users control of their very own wireless network partition. End-users can then remotely and securely deploy their devices on this network.				✔	✔
Patch/SMU lifecycle management Automated management of SMU/Patches patching by Cisco DNA Center.				✔	✔
Compliance and Reports Compliance, and detailed Network Reports, managed by Cisco DNA Center.				✔	✔
Device 360 and Client 360 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.				✔	✔
Stealthwatch Enterprise (for Encrypted Traffic Analytics (ETA)* Detect malware within encrypted traffic. License is required for both manual/CLI configuration or automation through Cisco DNA Center. Includes Stealthwatch Flow Rate License, Virtual Stealthwatch Management Console, and Virtual Flow Collectors.					✔
Identity Services Engine (ISE) License: SD-Access and Network Health Insights 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.					✔

Support

	Network Essentials	Network Advantage	Cisco DNA Essentials	Cisco DNA Advantage	Cisco DNA Premier
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			

For quantities of Stealthwatch and ISE licenses included with the Cisco DNA Premier subscription,
please see https://www.cisco.com/c/en/us/products/collateral/software/one-subscription-switching/nb-06-dna-sw-sub-access-sw-ctp-en.html?oid=dsten020087

* – not supported on all platforms