



Cisco DNA Software Subscription Matrix for Switching



	Network Essentials	Network Advantage	Cisco DNA Essentials	Cisco DNA Advantage	Cisco DNA Premier
License type	Perpetual license, one-time purchase	Perpetual license, one-time purchase	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).	✓	✓	✓	✓	✓
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.		✓	✓	✓	✓
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).			✓	✓	✓
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.			✓	✓	✓
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 (no ISE licenses included) 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.				✓	✓
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.				✓	✓
Cisco Catalyst 9800 Series embedded wireless controller Fabric technology is an integral part of SD-Access. Fabric-enabled wireless is a deployment option, managed by Cisco DNA Center only.				✓	✓
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.				✓	✓
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					
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			

* - not supported on all platforms



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Featured customer case studies

With the help of Cisco DNA Assurance, we are able to reduce the time to troubleshoot. We now have a lot of data which we can reuse and model to improve the student quality while they are on-site utilizing our infrastructure.

– **Robin Mok**, Senior Communications Engineer, University of Wollongong

[Read full story](#)

Cisco DNA Center helps me find problems pro-actively, before users contact me. With a mostly wireless network, I'm able to find devices throughout the network and quickly solve any problems with the help of analytics.

– **Manuel Ortiz III**, Senior Wireless Engineer, Houston Methodist Hospital

[See how](#)

Can a network improve your bottom line?

Use our Cisco DNA ROI Calculator to see how much your organization could save with a software-defined network.

[Start saving](#)

See what more of our customers have to say

The new Cisco Catalyst 9000 switches deliver outstanding performance, advanced security, and state-of-the-art high availability features.

These switches enable us to keep patients' data always secure and respond to emergency situations immediately without worrying about network issues.

– **Ed Vanderpool**, Senior Enterprise Network Engineer, Adventist Health

Our network is the core foundation driving the next-generation learning experience. With automated granular segmentation and RBAC (Role-Based Access Control) across multiple departments, we greatly improve service delivery, network security, and the user experience.

– **Trevor Long**, Associate Director of Network for UIT, University of Utah

The new Cisco Catalyst 9300 provides us the performance we need and the security features that are critical for our healthcare records. The new network, powered by Cisco Digital Network Architecture (Cisco DNA), gives us granular insight into who the users are, the devices they use, and the applications they access.

– **Michel Fontaine**, Network Architect, Centre Hospitalier Chre'tien (CHC), Belgium

At American University of Beirut, we encourage collaboration and offer access to exponential resources. With Catalyst 9000 switches, our network is poised to deliver automated, secure, and personalized learning experiences to students, faculty, and visitors.

– **Mohammad Abbas**, Director of IT Infrastructure, American University of Beirut

The more intuitive we can make troubleshooting for the team, the sooner we can take the network out of the equation.

– **Nicholas Yurkovich**, Chief Network Engineer, Scotiabank

The Catalyst 9000 has exceeded NASA's mission-critical requirements for security and segmentation...and at twice the performance.

– **Eric Latta**, Solutions Architect, NASA

Cisco DNA Center is a great idea packed with a lots of potential. Cisco is moving in the right direction!

– **Drew Norris**, Senior Network Engineer, Stanford University

SD-Access is transformational in how our IT can securely and remotely provision cruise ships around the world.

– **Michael Giresi**, Chief Information Officer, Royal Caribbean Cruises Ltd.

WWT is always looking to what's next, both in market trends and technology innovation. Being a longtime Cisco Certified Gold Partner, we have come to expect that Cisco will lean into what we see as a shared approach to helping customers make the transition toward digital transformation. The innovations Cisco has been pioneering recently—bringing higher 25 G densities to the enterprise while focusing on minimizing disruption—has been truly impressive. With backward compatibility and the ability to use existing fiber cabling at essentially the same price points as 10 G, Cisco Catalyst 9000 switches are making the transition to 25 G almost a no-brainer.

– **Bill Thompson**, Practice Manager, Mobility and Access Development, World Wide Technology (WWT)

www.cisco.com/go/dnaswitching