

Cisco Catalyst and Cisco DNA Software Subscription Matrix for Switching



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

	Feature	es				
	Network Essentials	Network Advantage	Cisco DNA Essentials	Cisco Catalyst Essentials (DNX)	Cisco DNA Advantage	Cisco Catalyst Advantage (DNX)
Ssential switch capabilities ayer 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 (Catalyst 9300/9200).	✔ ⊙	✔ ⊗				
ACSEC-128, COPP, SXP, IP SLA responder, SSO, StackWise (Catalyst 9300/9200). 3 Routed access 3 Routed access (RIP, EIGRP Stub, OSPF (1000 routes)).	ۍ	✔ (3)				
ogrammability, NETCONF/RESTCONF/gRPC/YANG odel-driven programmability lets you automate configuration and control of your network devices with	V (3)	✔ (*)				
ogrammable interfaces. Pro Touch Provisioning	✔ ⊙	✓ ⊗				
utomated provisioning of a new Cisco switch using the Zero Touch Provisioning functionality built into the switch. 8-bit MACsec encryption onfigure 128-bit MACsec for authenticating and encrypting packets between MACsec-capable devices.		*				
dvanced telemetry SPAN, RSPAN anual/CLI or WebUI configuration of SPAN, RSPAN for providing near real-time access to operational statistics. No automation	✔ ⊗	✔ ⊛				
rough Cisco Catalyst Center. treaming telemetry and visibility						
lodel-driven telemetry lets you monitor your network by streaming data from network devices, continuously providing ear-real-time access to operational statistics. isco Trustworthy Solutions	✔ 3	* *				
elp ensure hardware and software authenticity for supply chain trust and strong mitigation against man-in-the-middle attacks nat compromise software and firmware.	✔ (>)	$\checkmark \circledast$				
oftware Image Management (SWIM) anually manage software upgrades and control the consistency of image versions through CLI or WebUI. Automation through isco Catalyst Center not supported.	۲	*				
ull L3 routing functionality GP*, OSPF, IS-IS*.		۲)				
Flexible network segmentation VRF*, VXLAN, LISP,* SGT, MPLS*, BGP-EVPN with VXLAN*.						
i gh availability upport operational continuity and maintain availability during routine maintenance, and perform disaster recovery. NSF*, GIR*, HS SU*/eFSU*.						
atch/SMU lifecycle management*** anual/CLI operations or through WebUI only. Automation through Cisco Catalyst Center not supported.						
ptimize bandwidth utilization (Advanced Multicast) Iulticast is used between routers so they can track which multicast packets to forward to each other and to their directly connect						
IM BI-DIR*. 56-bit MACsec encryption						
Configure 256-bit MACsec* for authenticating and encrypting packets between MACsec-capable devices.						
Timing and synchronization for time sensitive applications with PTPv2 as default profile (IEEE 1588v2/PTPv2, gPTP (IEEE 802.1AS), AES67 and G8275.1 vs profiles with less than 100 nano seconds precision.						
isco AVB simplifies digitization of audio and video and offers superior quality of experience with standards like IEEE1588v2 PTPv		**	\checkmark \otimes			
his next generation in flow technology optimizes the network infrastructure, reducing operating costs and improving capacity plan quired for Manual/CLI, WebUI or automated Cisco Catalyst Center configuration).	✔ ③		 			
isco IOS Embedded Event Manager (EEM) EM is a powerful and flexible subsystem that provides real-time network event detection and onboard automation. It gives you th align with your business needs.	✔ ⊗	✓	✓			
Software Image Management (SWIM) Automate software upgrades and control the consistency of image versions through Cisco Catalyst Center.						~
Overall health dashboard Gives a high-level overview of the health of every network device/client on the network, wired and wireless, through Cisco Catalyst Center or cloud monitoring for Catalyst.						~
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 Catalyst 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 Catalyst Center.						~
Out of box reports Cisco Catalyst Center pre-built reports that can be consumed directly or exported to third-party tools such as Tableau. Cloud monitoring for Catalyst						✓
ffers cloud monitoring options with Cisco [®] Catalyst [®] 9000 switches to deliver visibility and troubleshooting.	Limited visibility		~			
powerful end-to-end, indoor location services cloud platform that extends platform capabilities via integrations and partner app vailable for Cisco Catalyst 9300 and 9400 Series Switches.	✓ (*)	~ 3				
isco ThousandEyes Network and Application Synthetics** eliver superior network and application experience with Cisco ThousandEyes, now integrated into Cisco Catalyst 9300 and 9400	\checkmark \otimes	✓ (⇒)				
SE Advantage Licenses (included in Catalyst software subscription only)**** chieve faster deployment of zero-trust network security solutions such as SD-Access, Client Assurance, and network authentica ontroller Orchestrated Fabric Management and Configuration		✓				
ny Cisco or a third-party controller orchestrating a Fabric like EVPN, MPLS etc.	 ✓ (3) 	 ✓ 				
nables policy-based automation with secure segmentation, complete visibility, and delivery of new services quickly on SD-Acces	✓ ✓	✓				
I and machine learning technologies are implemented on Cisco Catalyst Center and in the Al Network Analytics cloud to enhance I Endpoint Analytics		-				
lentify and check compliance of endpoints, and use AI/ML techniques to classify them into groups. roup-Based Policy Analytics	~ ~	· ·				
lakes segmentation policy simpler by discovering traffic flows between scalable groups to determine the right policies. I Trust Analytics erifies that connected endpoints are legitimate. Use this information to define security policies that isolate rogue or compromised	✓	~				
AN automation utomate configurations and deployment of networks with Cisco Catalyst Center.	~	~				
atch/SMU lifecycle management utomated management of SMU/Patches patching by Cisco Catalyst Center.	 Image: A set of the set of the	~				
ompliance ompliance reports managed by Cisco Catalyst Center.					✓	
Psec upports 100G+ HW encryption for high-bandwidth secure L3 transport between sites or from cloud to site.	\checkmark \otimes	>				
evice 360, Client 360, and Network Health Insights isplay devices and client connectivity from any angle or context, providing for very granular troubleshooting in seconds.	 Image: A set of the set of the	 Image: A second s				
pplication policy creation ssign policies to applications based on business relevance and business-critical QoS priority for life-saving devices, manual thro	ough CLI or automation throu	igh Cisco Catalyst Center.			✔ ⊗	✔ 3
pplication hosting Ilows third-party applications to be hosted in a secure container environment on the switch. License is required for both manual/	/CLI configuration or automa	ation through Cisco Catalyst (Center.		$\checkmark \circledast$	~ 3
hird-party API integration flexible framework is provided to integrate third-party application software.	\checkmark \otimes	✓ >				
ncrypted Traffic Analytics (ETA)*: (No Stealthwatch License Included) etect malware within encrypted traffic. License is required for both manual/CLI configuration or automation through Cisco Cataly isco DNA Service for Bonjour	\checkmark \otimes	✓ 🔄				
his software-defined, controller-based solution enables Bonjour services discovery and advertisement at scale across multiple d isco Catalyst Center.	✓ ⊗	✔ 3				
RSPAN* Ionitor and re-direct traffic. License is required for both manual/CLI configuration or automation through Cisco Catalyst Center.	✔ (3)	✔ ⊗				
/ireshark* acket capture for analysis. License is required for both manual/CLI configuration or automation through Cisco Catalyst Center.	\checkmark \otimes	ی 🍾				
VC (NBAR2)* ain application visibility and control through Next-Generation Network-Based Application Recognition. License is required for bot isco Catalyst Center.	✓ ⊗	✔ 3				
Support	Network Essentials	Network Advantage	Cisco DNA Essentials	Cisco Catalyst Essentials (DNX)	Cisco DNA Advantage	Cisco Catalyst Advantage (DNX)
- LLW) days of Cisco TAC support; local business hours, 8x5; hardware replacement (next business day where available); Warranty	✓	~	~	~	~	~
iration is lifespan of hardware product.						
oftware support service in the subscription software stack includes TAC support and software updates and upgrades in Cisco atalyst Center.			~	~	~	~
 ITC 24x7 access to the Cisco TAC for hardware issues 60-minute TAC response objective for severity 1 and 2 service requests TAC response objective for severity levels 3 and 4 service requests: 60 minutes during business hours 	Optional	Optional	Optional		Optional	
 Next Business Day during business hours if the request is made outside of business hours OS updates Self-help resources (tools, documentation, and videos) via Cisco.com Return Materials Authorization (RMA) with eight service level options 						
 ase product-level software and hardware support: 24x7 access to the Cisco TAC phone support for software and hardware issues: Cisco Catalyst Software for Switching, Catalyst 9000 Switches, and the OS. 4-hr TAC response objective for severity 1 and 2 service requests Next business day TAC response objective for severity 3 and 4 service requests Access to the CX Cloud base experience: step-by-step adoption task lists and success tips, asset and license views, and case management. Software and OS updates 	Included with Cisco Catalyst software subscription (DNX)	Included with Cisco Catalyst software subscription (DNX)	Not included	~	Not included	~
Software and OS updates Self-help resources (documentation and videos) via Cisco.com Hardware replacements with a next business day service level are accessed via the Catalyst 9000 Extended Lifetime Warranty (E-LLW) isco Success Tracks Get streamlined support across software, hardware, and providers for faster complex issue resolution Improve operational efficiency and reduce risk with proactive and predictive analytics-driven insights			Optional (recommendary)	Optional (recommendar)	Optional (recommendat)	Ontional (recommend
Speed adoption with personalized use case guidance Avoid adoption pitfalls with best practices and one-on-one consulting Return Materials Authorization (RMA) with eight service level options			Optional (recommended)	Optional (recommended)	Optional (recommended)	Optional (recommend

The Cisco DNA Expansion Pack is a flexible way to purchase Cisco ISE, Cisco 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 licenses and choose the license count that fits your needs.

For more details, contact a Cisco sales or Cisco registered partner.

✤ Does not require Cisco Catalyst Center.

* Not supported on all platforms.

** Cisco ThousandEyes Network and Application Synthetics entitlements will be provided as described in ThousandEyes with Cisco Catalyst 9000 Switches.

*** Supported on Network Advantage from Cisco IOS XE Fuji 16.9.7 onwards. Prior to Cisco IOS Fuji XE 16.9.7, Cisco Catalyst or Cisco DNA Advantage is also required.

**** Not applicable for Catalyst 9200 series.