Cisco DNA Software Wireless Feature Matrix

Subscribe

	Network Essentials	Network Advantage	Cisco DNA Essentials	Cisco DNA Advantage
License type	Perpetual software, compatible with Cisco DNA Essentials subscription license	Perpetual software compatible with Cisco DNA Advantage license	3/5/7 year term subscription	Includes Cisco DNA Essentials, 3/5/7 year term subscription
Management options	CLI, WebUI	CLI, WebUI	CLI, WebUI, Cisco DNA Center	CLI, WebUI, Cisco DNA Center

Features

	Network Essentials	Network Advantage	Cisco DNA Essentials	Cisco DNA Advantage
Essential wireless capabilities 802.1x authentications, Guest access, device onboarding, Infra and client IPv6, ACLs, QoS, Videostream, Smart defaults, RRM, Spectrum intelligence, TrustSec SXP, AP and client SSO, Dynamic QoS, Analytics, ADP, OpenDNS, mDNS, IPSec, Rogue Management and Detection on controller, Mobility.	✔	✔		
High availability AP and Client SSO.	✔	✔		
DevOps integration PnP Agent, NETCONF, Yang Data Models.	✔	✔		
Optimized radio frequency FRA, Client link, ClearAir Advanced, NG-HDX, Predictive/Proactive RRM.	✔	✔		
IoT optimized Identity PSK, Enhanced Device profilers.	✔	✔		
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.	✔	✔		
Advanced high availability and resiliency (patching) features In-Service Software Upgrade (ISSU), AP Device Pack (APDP), AP Service Pack (APSP), Rolling AP upgrades, Hot Patching, SMU.		✔		
Flexible network segmentation VXLAN (Virtual Extensible LAN).		✔		
Network Plug and Play (PnP) provisioning Zero-touch provisioning for new device installation allows off-the-shelf Cisco devices to be provisioned simply by connecting to the network, managed by Cisco DNA Center.			✔	✔
Network Site Design and Device Provisioning Design your wireless network for proper coverage and maximize the throughput. Provision wireless network appliances with the proper setting to maximize performance.			✔	✔
Software Image Management (SWIM) Automatically manage software upgrades and control the consistency of image versions and configurations across your network, managed by Cisco DNA Center.			✔	✔
Full Flexible NetFlow This next generation in flow technology optimizes the network infrastructure, reducing operating costs and improving capacity planning and security incident detection.			✔	✔
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.			✔	✔
Wireless 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.			✔	✔
Network health dashboard Provides operational status of every network device connected to Cisco DNA Center, with suggested remediation for any communication issues, managed by Cisco DNA Center.			✔	✔
Client health dashboard Displays operational status of every client connected to Cisco DNA Center, with suggested remediation for any issues, managed by Cisco DNA Center.			✔	✔
Application health dashboard Displays overall health of all applications on the network, with special section for business-relevant application issues and suggested remediation, managed by Cisco DNA Center.			✔	✔
Base Security DNA Center management & visibility for Rogue detection.			✔	✔
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.			✔	✔
Out of box reports Cisco DNA Center pre-built reports that can be consumed directly or exported to third party tools such as Tableau.			✔	✔
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.				✔
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.				✔
Location Plug and Play Helps to automate the onboarding of new devices on the network by applying configuration settings without manual intervention.				✔
Automated ISE integration for guest Cisco Identity Services Engine (ISE) guest services enable you to provide secure network access to guests such as visitors, contractors, consultants, and customers.				✔
Third-party API integration A flexible framework is provided to integrate third-party application software.				✔
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 DNA Spaces See A powerful, end-to-end, indoor location services cloud platform that unlock insights and trends into customer, employee and asset behavior.				✔
Cisco DNA Spaces Act (optional upgrade) A powerful, end-to-end, indoor location services cloud platform that translate network view of people and assets into business view.				✔
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.				✔
Encrypted Traffic Analytics (ETA) Detect malware within encrypted traffic. This is an optional feature of Cisco Stealthwatch (which can be purchased a-la-carte), managed by Cisco DNA Center.				✔
Adaptive Wireless Intrusion Prevention System (wIPS) A complete wireless security solution that uses the Cisco Unified Access™ infrastructure to detect, locate, mitigate, and contain wired and wireless rogues and threats at Layers 1 through 3.				✔
EasyQoS configuration With an end-to-end effective QoS configuration, each part of the QoS policy is cohesive and compatible achieving an end-to-end service level.				✔
EasyQoS dynamic monitoring Assign policies to applications based on business relevance and business-critical QoS priority for life-saving devices, for example.				✔
Policy-based automation Policies, in the form of rules, can be used to automate various services provided by Cisco for policy-based network management.				✔
Patch lifecycle management Intelligent device management for lifecycle patching, managed by Cisco DNA Center.				✔
Guided remediation Automates resolution to keep your network performing at an optimal level with less mundane troubleshooting work.				✔
Apple iOS insights Wi-Fi assurance and analytics from Cisco DNA and rich telemetry data from iOS 11 help IT understand the iPhone and iPad user experience when connected to a Cisco Wi-Fi network. These impactful insights make it possible to deliver optimal performance and resolve issues faster.				✔
Compliance Compliance reports managed by Cisco DNA Center.				✔
Proactive issue detection Aironet Active Sensor Tests, Intelligent capture, Client Location Heatmaps, Spectrum Analyzer.				✔
Application performance Simplify application delivery and management, efficiently centralize applications and IT, and reduce operational costs.				✔
App 360, AP 360, WLC 360, and Client 360 Display devices and client connectivity from any angle or context, providing for very granular troubleshooting in seconds.				✔

Support

	Network Essentials	Network Advantage	Cisco DNA Essentials	Cisco DNA Advantage
SWSS Software Support Service in the subscription software stack and OS software on the AP (requires SNTC on the WLC), and 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		