



Cisco DNA Center

Cisco DNA Center: A Complete Network Management System That Enables Your Network to Drive Business Growth and Innovation.

Your network is more strategic to your business than ever before. You need a network management system that can automate the deployment, connectivity, and lifecycle of your infrastructure and proactively maintain the quality and security of your applications so that your IT staff can focus on networking projects that enhance your core business.

With Cisco DNA Center, the days of time-consuming network provisioning and tedious troubleshooting tasks are over. Zero-touch device connectivity and software image management features bring device install or upgrade from hours to minutes and bring new remote offices online with plug-and-play ease from an off-the-shelf Cisco device. Cisco DNA Center Assurance enables every point on the network to become a sensor, sending continuous, streaming telemetry on application performance and user connectivity in real time. This coupled with automatic trace path visibility and guided remediation means network issues are resolved in minutes—before they become problems. Integration with Cisco Stealthwatch® security provides detection and mitigation of threats, even when they are hidden in encrypted traffic. Cisco DNA Center also provides an open extensible platform with broad support for external applications and systems to exchange data and intelligence, building upon its native functions. Cisco DNA Center is the only centralized network management system to bring all of this functionality into a single pane of glass.

Benefits

- Simplify network management. Manage your enterprise network over a centralized dashboard.
- Deploy networks in minutes, not days. Using intuitive workflows, Cisco DNA Center makes it easy to design, provision, and apply policy across your network.
- Lower costs. Policy-driven provisioning and guided remediation increase network uptime and reduce time spent managing simple network operations.
- Transform your network with cloud services and applications that benefit from this intelligent network optimization.



“Cisco DNA Center is the only way we can keep up with the explosion of devices on our network.”

Marty Miller

Technology strategist
Children’s Hospital Los Angeles

What makes Cisco DNA Center different?

Cisco DNA Center is a complete management and control platform for your network designed, created, and implemented by Cisco. This single software platform includes integrated tools for network management, automation, virtualization, analytics and assurance, security, and Internet of Things connectivity and is an extensible platform for interfacing into your business-critical tools. Until now, functionality this complete could only be achieved through the purchase and operation of multiple third-party software tools. The advantages of having all your core network tools integrated into a single software platform are compelling.

- Multiple tools with multiple interfaces add complexity, which increases the possibility for errors in configuration and management. This can be especially damaging when errors in security settings lead to open vulnerabilities.
- Changing between program interfaces during network operations is time consuming and can make even simple changes or troubleshooting tasks take many times longer to complete.
- Third-party platforms will never support the same levels of device management and control as well as the manufacturer.
- Automatic troubleshooting with guided remediation is extremely complex in today’s virtualized networks. Third-party tools can often tell you if a problem is due to the network or caused by an application, but they can’t offer guided remediation without true integration between the tools that control virtualization, analytics, and automation.
- Real intent-based networking requires extensive real-time data flow between the operational tools that are core to the network. The management of network configuration, security, analytics, and automation all come together to deliver the true business intent of the operation. Core management tools supplied by multiple third-party vendors cannot efficiently share, and react to, the amounts of data and critical information required to deliver a genuine intent-based network experience.

Cisco DNA Center offers a single dashboard for every core functionality in your network. With this platform, IT can become far more nimble and respond to changes and challenges quicker and more intelligently.

Cisco DNA Center is the network management system, foundational controller, and analytics platform at the heart of Cisco’s intent-based network. Beyond device management and configuration, Cisco DNA Center is a set of software solutions that provide:

- A management platform for all of your network
- A software-defined networking controller for automation of your virtual devices and services

Getting started with Cisco DNA Center

Cisco offers a number of ways to get started with Cisco DNA Center depending on your networking goals. Cisco DNA capabilities are delivered through three subscription offers: Cisco DNA Premier, which is SD access and assurance ready, Cisco DNA Advantage, which is SD access and assurance capable, and Cisco DNA Essentials, for basic monitoring and automation. The most value-rich offer, Cisco DNA Premier, delivers policy-based automation with SD access, Cisco DNA Center Assurance, and enhanced security with Cisco Stealthwatch. Customers can enable all Cisco DNA use cases with Cisco DNA Premier. Take advantage of our latest promotions to help you get started.

[Learn more.](#)

Customer success stories

Cisco customers in every industry are changing the way they manage their network with Cisco DNA Center. Take a look at the latest customer case studies to learn how customers are deploying Cisco DNA Center and how it is aligning their network operations with their business goals.

[Learn more.](#)

- An assurance engine to guarantee the best network experience for all your users

Cisco DNA Center software resides on the Cisco DNA Center appliance and controls all of your Cisco devices—both physical and virtual (fabric and nonfabric). From the main menu, Cisco DNA Center has four general sections:

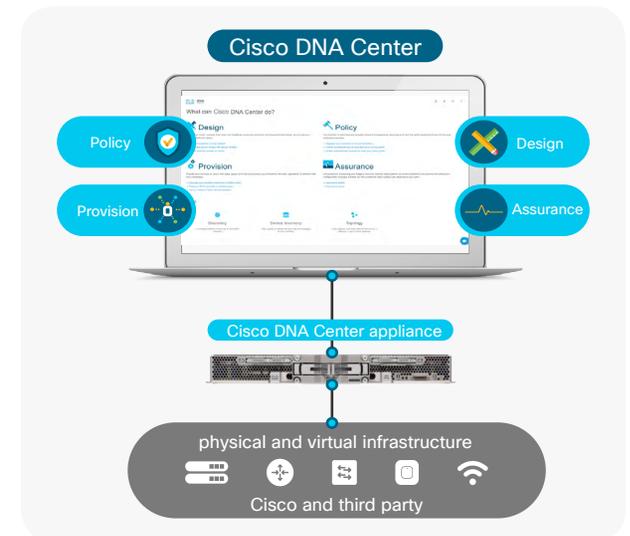
Design: Design your network using physical maps and logical topologies for quick visual reference. The direct import feature brings in existing maps, images, and topologies directly from Cisco Prime Infrastructure and Application Policy Infrastructure Controller Enterprise Module (APIC-EM), making upgrades easy and quick. Device discovery is automatic and can be done through either Cisco Discovery Protocol or simply entering an IP address range.

Policy: Define user and device profiles that facilitate highly secure access and network segmentation based on business needs. Cisco DNA Center takes the information collected in a policy and translates it into network-specific and device-specific configurations required by the different types, makes, models, operating systems, roles, and resource constraints of your network devices. Using Cisco DNA Center, you can create virtual networks, access control policies, and traffic copy policies and application policies.

Provision: Once you have created policies in Cisco DNA Center, provisioning is a simple drag-and-drop task. Categories of identities (users, devices, apps, etc.) in the Cisco DNA Center inventory list are assigned a policy, and this policy will always follow this identity. The process is completely automated and zero touch. New

devices added to the network will be assigned a policy based on its identity—this greatly facilitates remote office setups.

Assurance: Cisco DNA Center Assurance provides a comprehensive solution to assure better and consistent service levels to meet growing business demands. Cisco DNA Center Assurance addresses not just reactive network monitoring and troubleshooting, but also the proactive and predictive aspects of running the network, ensuring client, application, and service performance. The outcome is a consistent experience and proactive optimization of your network with less time spent on troubleshooting tasks.



Cisco Services

Accelerate your intent-based networking journey with [Cisco Services](#). With proven experience, best practices, and innovative tools, our experts help you achieve extraordinary business outcomes and anticipate change so you can pivot quickly, securely, and confidently. Our comprehensive lifecycle of advisory, implementation, optimization, managed, technical, and IT training services helps you move to an open, secure, and automated intent-based network with ease and confidence. We'll help build your in-house expertise with training for your staff and provide centralized Cisco Solution Support with a single point of contact from first call to resolution. Our experts will also help you improve performance, efficiency, and operational excellence while extracting maximum value from your resources.

Cisco DNA Center Advise and Implement Service extends the capabilities of the Cisco DNA Center platform to ensure rapid and secure deployment of Cisco DNA Center for simplified control of wired and wireless environments across campus, branch, and WAN. Our experts help you extend the value of Cisco DNA Center with cross-domain and third-party software integration and customized feature enhancements. Using an architectural approach to policy automation and assurance, this service enables you to manage, scale, and securely integrate Cisco DNA Center with IT and business systems for greater IT efficiency.

Table 1. Cisco DNA Center features

Feature	Description	Benefits
Automation Software Image Management	Manages software upgrades and controls the consistency in image versions and configurations across your network.	Speed and simplify the deployment of new software images and patches. Pre/post checks ensure no adverse effects from upgrade.
Automation Plug-and-Play	Zero-touch provisioning for new device installation. Allows off-the-shelf Cisco devices to be provisioned simply by connecting to the network.	Deploy new devices in minutes, and without onsite support visits. Eliminate repetitive tasks and staging.
Enterprise Network Function Virtualization (ENFV)	Automation support for ENFV facilitates branch virtualization on any hardware device—Cisco or third party.	Save time in setting up network virtual services. Support existing branch migration without hardware upgrade.
EasyQoS	Automation feature that creates an optimal end-to-end Quality-of-Service (QoS) chain for each link in the network.	Consistent QoS across the WAN and enterprise-wide. Achieve toll-quality voice from any bring your own device.
Encrypted Traffic Analytics (ETA)	Allows the system to look for trends that could indicate a security threat in encrypted data traffic.	Provide detection of malware, attacks, and other threats.
Network Health Dashboard and Client Health Dashboard	Assurance feature that gives a quick overview of the health of every network device and client on the network, wired and wireless.	General overview of the operational status for every network device provisioned from Cisco DNA Center. Any poorly connected devices will be highlighted with suggested remediation.
Device 360 Client 360	Assurance feature allowing viewing of device or client connectivity from any angle or context. Included is information on topology, throughput, and latency from different times and applications.	Give a detailed view of any device or client performance over time and from any application context. Provide for very granular troubleshooting in seconds.
Network Time Travel	Assurance feature allowing operator to see device or client performance in a timeline view to understand the network state when an issue occurred.	Allow an operator to go back in time and see the cause of a network issue, instead of trying to recreate the issue in a lab.

Why Cisco?

You need a network that is constantly learning, constantly adapting, and constantly protecting. This is the future of networking.

With our deep understanding of technology and relationships with IT, Cisco can help bring the boardroom and your IT together to work effectively toward better outcomes for IT and the business. With Cisco DNA, we can help you create revenue opportunities, lower costs, reduce risks, and ensure regulatory compliance. And we can help you simplify your network operations and accelerate their response to changing IT and business needs.

Together with our partners, we help our clients innovate, manage market transitions, and turn technology into business advantage.

Next steps

For more information, visit the Cisco DNA Center website at www.cisco.com/go/dnacenter.

Feature	Description	Benefits
Path Trace	Assurance feature that allows the operator to visualize the path of an application or service from client, through all devices and to the server.	A common, and critical, troubleshooting task that normally requires 6 to 10 minutes is displayed instantly upon clicking on a client or application.
Aironet® Active Sensor	A compact network sensor designed to monitor your wired or wireless network.	Operator can simulate real-world client experiences so that it can validate wireless performance for critical venues and high-value locations such as conference halls and meeting rooms.
Cisco DNA Center Open Platform	A broad set of APIs, SDKs, and adapters, which extends the capabilities of Cisco DNA Center to external applications, systems, and processes.	Platform allows Cisco DNA Center to share network insights that can provide important intelligence related to business and IT operations, security, compliance, and worker and customer experience.

Cisco DNA Center allows you to run the network with maximum performance, reliability, security, and open interfaces. Unlock the power of data by starting your journey with Cisco DNA Center today.

Cisco Capital

Financing to help you achieve your objectives

Cisco Capital® can help you acquire the technology you need to achieve your objectives and stay competitive. We can help you reduce capital expenditures, accelerate your growth, and optimize your investment dollars and ROI. Cisco Capital financing gives you flexibility in acquiring hardware, software, services, and complementary third-party equipment. And there's just one predictable payment.

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