

Cisco ONE for Access Switching

Cisco ONE™ Software helps customers purchase the right software capabilities to address their business needs. It helps deliver reduced complexity, simplified buying, and the peace of mind that today’s software investments will last into the future. These products offer a greater value to customers with more features at “better together” pricing.

Cisco ONE Software provides customers with the following main benefits:

- Flexible licensing models to smoothly distribute customer’s software spending over time
- Access to updates, upgrades, and new technology from Cisco through Cisco® Software Support Service (SWSS)
- Investment protection for software purchases through software services-enabled license portability
- Software suites that address typical customer use-case scenarios at an attractive price
- Lower cost of entry with new Cisco ONE Subscription for Switching model

Table 1 outlines the common IT challenges and how Cisco ONE Software helps customers deal with these challenges.

Table 1. IT management challenges and Cisco ONE Software benefits

IT management challenges	Cisco ONE Software benefits
<p>Shrinking IT Budgets IT budgets are shrinking while IT demands continue to accelerate. As the costs of IT and downtime skyrocket, companies need to balance shrinking budgets with easy-to-deploy networks that enhance operational efficiency.</p>	<p>Deliver More Value for Your Money Cisco ONE Software is designed for common customer use scenarios and offered at a “better together” price, making it easier and less expensive for you to deploy complete solutions.</p> <p>Increase Investment Protection Software services-enabled license portability lets your software licenses stay current through hardware upgrades and replacements at no additional cost.</p>
<p>Infrastructure Inflexibility IT organizations lack an automated way to keep pace with changing business needs and demands for more resources. It often takes weeks to procure and provision a new network service.</p>	<p>Enhance Business Agility Cisco ONE Software delivers critical business solutions and provides you with the tools you need to deploy, maintain, and manage your software.</p>
<p>Lack of Buying Options Organizations need more options for buying software to improve their flexibility, reduce risk, and cut costs.</p>	<p>Flexible Licensing Models Evenly distribute your software spending over time with subscription-based and other flexible purchasing models.</p>
<p>Implementation Obstacles Deploying software and implementing new use cases can often cause major disruptions to your current operations.</p>	<p>Reduce Risk and Downtime Cisco’s technical and professional services provide the expertise, smart tools and proven processes that reduce risk and lower downtime.</p>
<p>Excessive Time and Costs for Maintenance The majority of your IT budget and most of your workloads are focused on routine maintenance, limiting your ability to innovate and grow your business.</p>	<p>Accelerate ROI and Time-to-Value Optimize the performance of your networks to get the most out of your technology investments. Accelerate your business outcomes with expert guidance from Cisco technical and professional services.</p>

Product overview

Cisco ONE for Access Switching powers Cisco Catalyst® Family switches by introducing a simpler and more economical way to deploy access, aggregation, and core switches across enterprise campus and branch locations. It helps you create, manage, and scale a connected borderless business. Cisco ONE for Access Switching is available through flexible subscriptions and perpetual buying options (Figures 1 and 2).

Figure 1. Cisco ONE Software: Subscription license overview

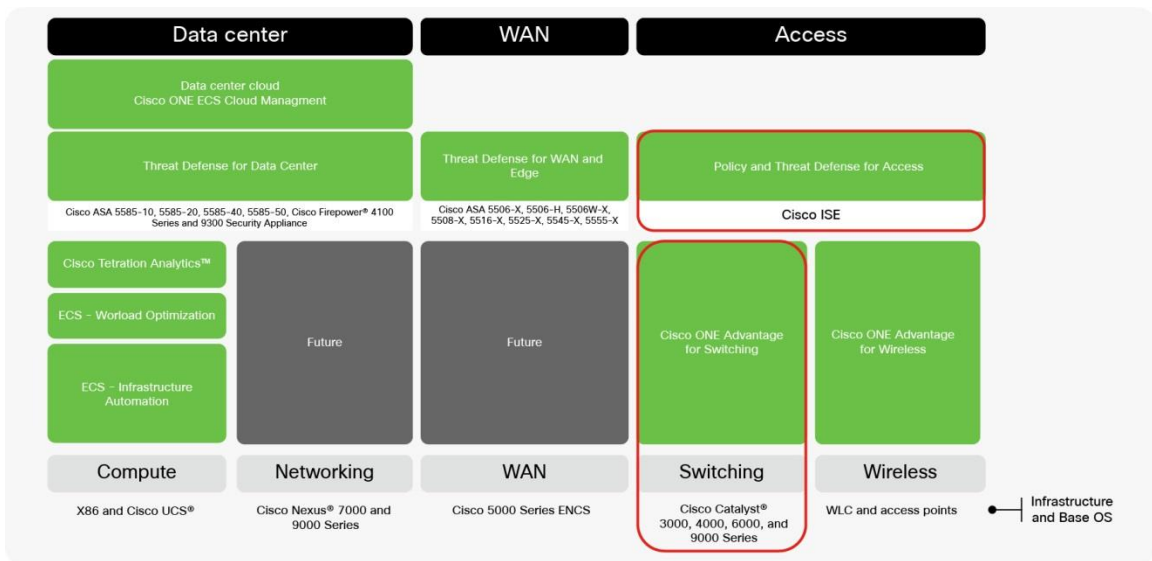
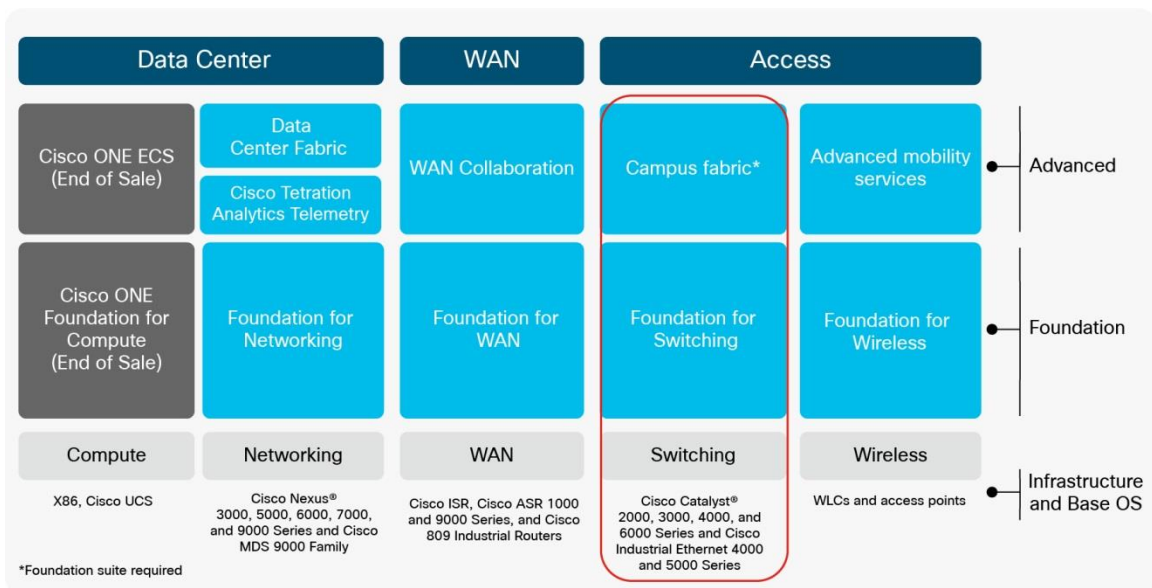


Figure 2. Cisco ONE Software: Perpetual license overview



Cisco ONE for Access Switching subscription offers

Software subscriptions provide a number of benefits:

- Continuous access to innovation
 - Ongoing access to the latest features: New features are being released more often than in the past. Subscriptions give you regular, real-time access to the latest features and accelerate your journey to the cloud.
 - Up-to-date security protection: Software subscriptions help you to stay current with changing security requirements through access to the latest features.
 - Software refresh independent of hardware: Subscriptions free the software refresh cycle from the hardware for ongoing access to innovation.
- Enhanced agility
 - Capability to renew and scale what you want: Stay synchronized with the dynamic nature of your business. Easily update your technology capabilities as your business needs change.
 - License portability for flexibility: Subscriptions offer better license portability across deployment models: cloud environments, on-premises equipment, and new hardware.
 - Shorter planning cycles: Subscriptions enable shorter planning cycles and help avoid the overspending associated with long-term capacity planning.
- Better financial planning
 - Linear, predictable budget spending: Subscriptions give you more spending predictability and linearity and help avoid peaks and valleys.
 - Shift from Capital Expenditures (CapEx) to Operating Expenses (OpEx): Be OpEx-centric in the cloud and consumption economy era. In addition, you lower your initial investment.
 - Keep vendors focused on value: Subscriptions keep vendors more focused on growing value: a key decision-making factor at renewal time.

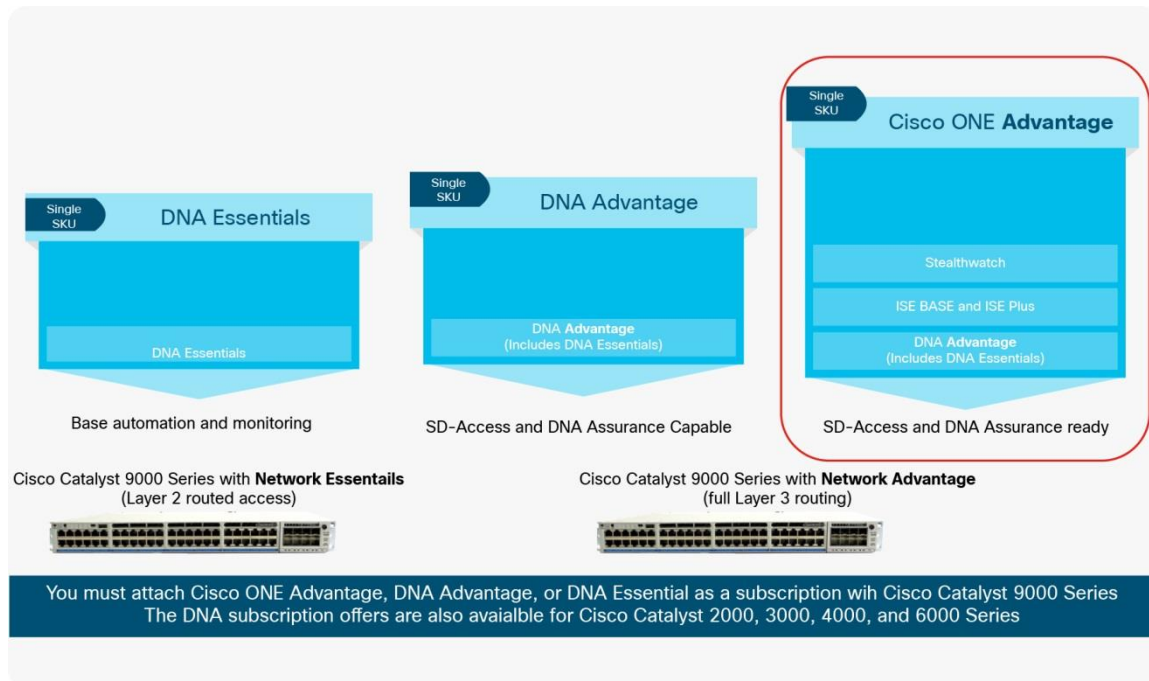
Cisco ONE Advanced Security

Cisco ONE Policy and Threat Defense for Access is a complete software solution that helps provide end-to-end access control and enforcement for your organization's users while at the same time improving security and helping ensure compliance. To learn more about how Cisco ONE Advanced Security suites can help your organization, see the [Cisco ONE Advanced Security for Access data sheet](#).

Cisco ONE Advantage

Cisco ONE Advantage delivers an unbound network on an open and extensible architecture to help you navigate the digital journey. Benefits include lower initial costs, access to ongoing innovation, agility to respond more quickly, and better budget predictability. These 3-, 5-, and 7-year subscriptions include full Cisco Digital Network Architecture (DNA) capabilities supported by Cisco Software-Defined Access (SD-Access) analytics, automation, and security. Switching subscription offers are categorized into Good, Better, and Best solutions: DNA Essentials, DNA Advantage, and Cisco ONE Advantage, respectively. Cisco ONE Advantage is the lead offer (Figure 3).

Figure 3. Cisco ONE Software: Cisco ONE Advantage Offer



Software components of Cisco ONE Advantage

Cisco ONE Advantage for Wireless delivers policy-based automation with [Cisco Software-Defined Access \(SD-Access\)](#), [Cisco DNA Assurance](#), and enhanced security. Cisco ONE Advantage is offered as a 3-, 5-, or 7-year subscription and includes both software licenses and support services.

- [Cisco DNA Advantage](#) delivers policy-based automation with SD-Access, monitoring, and Cisco DNA Assurance.
- [Cisco DNA Essentials](#) delivers base automation, monitoring, and management.
- [Cisco Prime™ Infrastructure](#) is network management that connects the network to the device to the user to the application: end to end and all in one. Its capabilities permit simplified deployment of Cisco value-added features and single-pane management. It increases application visibility and serves as the core management solution for wireless and wired lifecycle management and assurance.
- [Cisco Identity Services Engine \(ISE\) Base](#) enhances security policy management and control by simplifying access control and security compliance for wired and wireless devices including integration with third-party devices. It provides secure access (Authentication, Authorization, and Accounting [AAA] and IEEE 802.1x), guest management, and link encryption (MAC Security [MACsec]).
- [Cisco Identity Services Engine \(ISE\) Plus](#) provides Bring-Your-Own-Device (BYOD) support, profiling and feed services, Endpoint Protection Services (EPS), Cisco Platform Exchange Grid (pxGrid), and Cisco Mobility Services Engine (MSE) integration for location services.
- [Cisco Stealthwatch®](#) uses existing networks through Cisco [NetFlow](#) as a sensor and enforcer to improve threat defense and to provide [visibility, analytics, and protection](#) across networks, data centers, branch offices, and clouds.

Cisco platforms supported by Cisco ONE for Access Switching subscription offers

Cisco ONE for Access Switching is available on the following Cisco Catalyst switches:

- Cisco Catalyst 9000 Series Storage Switches (Cisco Catalyst [9300](#), [9400](#), and [9500](#) Series): These are Cisco's leading stackable enterprise switches. They are built for security, Internet of Things (IoT), and cloud environments and are the next generation of the Industry's most widely deployed switching platform.
- Cisco Catalyst 3000 Series Switches (Cisco Catalyst [3650](#) and [3850](#) fiber and nonfiber switches)
- Cisco Catalyst 4500 Series Switches (Cisco Catalyst [4500E](#) and [4500-X](#))
- Cisco Catalyst 6800 Series Switches (Cisco Catalyst [6880-X](#), [6840-X](#), and [6807-XL](#))

Table 2 lists feature sets for the various Cisco ONE Software subscription offers.

Table 2. Feature sets for Cisco ONE Software for Access Switching subscription offers

	Cisco Catalyst 9500 Series	Cisco Catalyst 9400 Series	Cisco Catalyst 9300 Series	Cisco Catalyst 3650 Series	Cisco Catalyst 3850 Series	Cisco Catalyst 2000 Series	Cisco Catalyst 4000 Series	Cisco Catalyst 6000 Series
Cisco ONE Advantage								
Cisco ONE differentiators								
Advanced security analytics (visibility and threat detection across the network with Stealthwatch ^{1,2}) Flow collector and management license included	✓ (25 flows of Stealthwatch)	✓ (100 flows of Stealthwatch)	✓ (25 flows of Stealthwatch)	✓ (25 flows of Stealthwatch)	✓ (25 flows of Stealthwatch)		✓ (25 flows of Stealthwatch)	✓ (25 flows of Stealthwatch)
Endpoint-based policy (granular SD-Access with endpoint profiling from ISE) ¹	✓ (25 endpoints of ISE Plus and ISE Base)	✓ (100 endpoints of ISE Plus and ISE Base)	✓ (25 endpoints of ISE Plus and ISE Base)	✓ (25 endpoints of ISE Plus and ISE Base)	✓ (25 endpoints of ISE Plus and ISE Base)		✓ (25 endpoints of ISE Plus and ISE Base)	✓ (25 endpoints of ISE Plus and ISE Base)
Switch features								
Optimized network deployments (multicast Domain Name System [mDNS] gateway)	✓	✓	✓					
Advanced automation (containers, Python, Cisco IOS [®] Embedded Event Manager, and autonomic networking infrastructure)	✓	✓	✓					
Advanced telemetry and visibility (Flexible NetFlow and Wireshark)	✓	✓	✓					
Optimized telemetry and visibility (Encapsulated Remote SPAN [ERSPAN], Cisco Application Visibility and Control, and NBAR2)	✓	✓	✓					
High availability and resiliency (patching)	✓	✓	✓					
Advanced security (encrypted traffic analytics)	✓	✓	✓					

	Cisco Catalyst 9500 Series	Cisco Catalyst 9400 Series	Cisco Catalyst 9300 Series	Cisco Catalyst 3650 Series	Cisco Catalyst 3850 Series	Cisco Catalyst 2000 Series	Cisco Catalyst 4000 Series	Cisco Catalyst 6000 Series
Cisco DNA Center features								
Day-0 network launch automation (Cisco network plug-and-play application, network settings, and device credentials)	✓	✓	✓	✓	✓		✓	✓
Element management (discovery, inventory, topology, software image, licensing, and configuration management)	✓	✓	✓	✓	✓		✓	✓
Element management (patching)	✓	✓	✓	✓	✓		✓	✓
Network monitoring (Cisco Product Security Incident Response Team [PSIRT] compliance; End-of-Life [EoL] and End-of-Support [EoS] reporting; telemetry quotient; client 360; device 360; and top talkers, NetFlow, and streaming telemetry collection and correlation)	✓	✓	✓	✓	✓		✓	✓
Static quality-of-service (QoS) configuration and monitoring (easy QoS applications)	✓	✓	✓	✓	✓		✓	✓
Policy-based automation (SD-Access; group-based policy for access, application prioritization, monitoring, and path selection; and SD-Access with integrated wireless)	✓	✓	✓	✓	✓		✓	✓
Network assurance and analytics (insights from analytics and machine learning for the network, clients, and applications that cover onboarding, connectivity, and performance)	✓	✓	✓	✓	✓		✓	✓

¹ Additional flows and endpoints are available as add-on purchases in increments of 25.

² The Stealthwatch license includes the flow collector and management console.

Cisco ONE for Access Switching perpetual license offers

Cisco ONE perpetual license offers for switching provide comprehensive solutions for enterprise campus and branch offices. Foundation for Switching includes capabilities needed to implement a complete, secure, and feature-rich access infrastructure. Campus Fabric builds on the capabilities of Foundation for Switching with powerful tools to scale, secure, and optimize your network (see Figure 2).

Cisco ONE Campus Fabric

Add scalability for business growth and resiliency for mission-critical operations:

- Transparently manage heterogeneous and distributed LANs.
- Scale your network for business expansion with advanced Layer 3 features.
- Add resiliency for mission-critical applications.
- Segment your network for security, compliance, and complex business processes.
- Optimize utilization of network infrastructure.
- Conserve bandwidth and improve network efficiency with advanced multicast capabilities.

Cisco ONE Foundation for Switching

Connect, secure, and manage users and devices for a connected organization:

- Connect users to your network with comprehensive capabilities for Layer 2 and Layer 3 switching, mobility, security, application visibility, segmentation, and QoS.
- Use one management platform for wired, wireless, and VPN users and devices.
- Authenticate and authorize any user or device with a single policy and a guest portal. Centralize and unify network access policy management to provide consistent, secure access for end users across wired and wireless networks.
- Reduce operating expenses by simplifying network deployment, operations, and management with a unified solution for wireless and wired lifecycle management and assurance.

Software components of Cisco ONE for Access Switching perpetual license offers

Cisco ONE Campus Fabric provides a rich set of enterprise-class features, including complete Layer 3, advanced hardware-based IP unicast, and IP multicast routing.

- [IP Services](#), Enterprise Services, and Advanced Enterprise Services)* provide advanced Layer 3 routing, route virtualization (using VRF), Nonstop Forwarding (NSF), and [multicast features](#). The IP Services image provides a rich set of enterprise-class features, which includes advanced hardware-based IP unicast and IP multicast routing.

Cisco ONE Foundation for Switching helps manage, secure, and optimize your wired network.

- The IP Base feature set includes advanced QoS, rate limiting, Access Control Lists (ACLs), and basic static and Routing Information Protocol (RIP) functions for complete Layer 2 (access layer) features and enterprise Layer 3 (access layer) features.
- [Cisco Identity Services Engine \(ISE\) Base](#) enhances security policy management and control by simplifying access control and security compliance for wired and wireless devices including integration of third-party devices. It provides secure access (AAA and IEEE 802.1x), guest management, basic BYOD support, and link encryption (MACsec).
- [Cisco Prime Infrastructure](#) is network management that connects the network to the device to the user to the application: end to end and all in one. Its capabilities permit simplified deployment of Cisco value-added features and single-pane management. It increases application visibility and serves as the core management solution for wireless and wired lifecycle management and assurance.

Cisco platforms supported by Cisco ONE for Access Switching perpetual license offers

Cisco ONE for Access Switching perpetual license offers are available on the following platforms:

- Cisco Industrial Ethernet [4000](#) and [5000](#) Series Switches
- Cisco Catalyst 2000 Series Switches (Cisco Catalyst [2960X and 2960-XR](#))
- Cisco Catalyst 3000 Series Switches (Cisco Catalyst [3560-CX](#), [3650](#) and [3850](#) fiber and nonfiber switches)
- Cisco Catalyst 4500 Series Switches (Cisco Catalyst [4500E](#) and [4500-X](#))
- Cisco Catalyst 6800 Series Switches (Cisco Catalyst [6880-X](#), [6840-X](#) and [6807-XL](#))

Table 3 lists the Cisco IOS Software feature sets for the various Cisco ONE perpetual software offers.

Table 3. Cisco IOS Software feature set across the Cisco ONE Software offers

Cisco IOS Software licenses	Cisco Industrial Ethernet 4000 and 5000 Series	Cisco Catalyst 2000 Series	Cisco Catalyst 3650 and 3850 (nonfiber) Series	Cisco Catalyst 3850 (fiber) Series	Cisco Catalyst 4000 Series (4500E and 4500X)	Cisco Catalyst 6800 Series
Base Platform	LAN Base	LAN Base	LAN Base	IP Base	LAN Base (4500) IP Base (4500X)	IP Services
Foundation	–	–	IP Base	–	IP Base (4500) – (4500X)	–
Advanced	IP Services	–	IP Services	IP Services	Enterprise Services	Advanced Enterprise Services

Table 4 lists the features and capabilities of Cisco ONE for Access Switching. The top part of the table lists the features for Cisco ONE Foundation for Access Switching across the different platforms. The bottom part of the table lists features for Cisco ONE Campus Fabric.

Table 4. Features and capabilities of Cisco ONE for Access Switching

	Cisco Industrial Ethernet 4000 and 5000 Series	Cisco Catalyst 2000 Series	Cisco Catalyst 3000 Series	Cisco Catalyst 4000 Series (4500E and 4500X)	Cisco Catalyst 6800 Series
Cisco ONE Foundation for Access Switching					
Application experience					
Cisco Flexible NetFlow	✓ (NetFlow Lite)	✓	✓	✓	✓
Media features (Mediatrace, Metadata, Performance, and Monitor)			✓	✓	✓
Web Cache Communications Protocol			✓	✓	✓
Wireshark			✓	✓	
IT simplicity and programmability					
Smart Install	✓	✓	✓	✓	✓
IP Service-Level Agreements	✓		✓	✓	✓
Embedded Event Manager	✓		✓	✓	✓
Auto Smart Ports	✓	✓	✓	✓	✓
Service Discovery Gateway (Bonjour)			✓	✓	✓
Plug and Play	✓	✓	✓	✓	✓
Protect Your Network with Robust Security					
Secure Group Tags (SGT) and Secure Group Access Control Lists	✓		✓	✓	✓

	Cisco Industrial Ethernet 4000 and 5000 Series	Cisco Catalyst 2000 Series	Cisco Catalyst 3000 Series	Cisco Catalyst 4000 Series (4500E and 4500X)	Cisco Catalyst 6800 Series
MACsec	✓		✓	✓	✓
SGT Exchange Protocol	✓	✓	✓	✓	✓
IEEE 802.1x	✓	✓	✓	✓	✓
Device Sensor		✓	✓	✓	✓
Resiliency					
Cisco StackPower®			✓		
Stateful Switchover			✓	✓	✓
Save time and enhance visibility					
Cisco Prime Infrastructure	✓	✓	✓	✓	✓
Cisco Prime Assurance	✓	✓	✓	✓	✓
Protect your infrastructure down to the port level					
Cisco Identity Services Engine (ISE) Base AAA and RADIUS ⁵ , Basic BYOD, Cisco TrustSec [®] (SGT), MACsec, and External Representational State Transfer (REST) Services	✓ (50 endpoints)	✓ (50 endpoints)	✓ (50 endpoints)	✓ (150 endpoints)	✓ (150 endpoints)
Higher bandwidth speeds up to 10 Gbps (including IEEE 802.11ac Wave 2) over traditional Cat 5e cabling or above					
Multigigabit Ethernet (Mgig) Access			✓ Catalyst 3850		
Layer 3 features and routing					
RIP, OSPF Routed Access (1000 routes), EIGRP Stub, HSRP, VRRP	✓		✓	✓	✓
Policy-Based Routing, Unicast Reverse Path Forwarding	✓		✓	✓	✓
Protocol-Independent Multicast	✓		✓	✓	✓
Cisco ONE Campus Fabric					
Advanced routing					
BGP	✓		✓	✓	Foundation
EIGRP	✓		✓	✓	Foundation
IS-IS	✓		✓	✓	✓
Full OSPF	✓		✓	✓	Foundation
Protocol-Independent Multicast	✓		✓	Foundation	Foundation
IPv6 Routing (OSPFv3, EIGRPv6, etc.)	✓		✓	✓	✓
Policy-Based Routing	✓		✓	✓	✓
Virtualization					
VRF			✓	✓	Foundation
VRF Lite	✓		✓	✓	Foundation
Layer 2 VPNs					✓
MPLS Layer 3 VPNs					✓
L3VPN over mGRE					✓
Easy Virtual Network				✓	✓
Security					
ACL Dry Run					✓
ACL Atomic Commit					✓

	Cisco Industrial Ethernet 4000 and 5000 Series	Cisco Catalyst 2000 Series	Cisco Catalyst 3000 Series	Cisco Catalyst 4000 Series (4500E and 4500X)	Cisco Catalyst 6800 Series
Layer 3 Secure Group Tags	✓		✓	Foundation	Foundation
Resiliency and availability					
Nonstop Forwarding with Stateful Switchover			✓	Foundation	Foundation
IP Service-Level Agreements (IPSLAs)	✓		✓	Foundation	✓
Enhanced Object Tracking for IPSLAs			✓	Foundation	✓
Service Advertising Framework				✓	✓
Multiprotocol					
Multiprotocol BGP				✓	✓
Ethernet over MPLS					✓
Native VPLS					✓
Advanced VPLS					✓

³ Additional Identity Services Engine features such as profiling, posture, and TACACS+ need to be purchased individually. For more information, refer to the Identity Services Engine data sheet at https://www.cisco.com/c/en/us/products/collateral/security/identity-services-engine/data_sheet_c78-656174.html?cachemode=refresh.

Cisco and partner services

Cisco ONE Software Services

Services from Cisco and our certified partners enable the primary features of Cisco ONE Software to help you maximize business outcomes and protect your investment. Pairing software and hardware support together provides the best set of benefits to reduce costs and keep your business on track.

Cisco ONE Software Foundation and Advanced Applications suites both use Cisco Software Support Service (SWSS) for ongoing support and maintenance. SWSS provides the technical support expertise you need to successfully navigate the rich features and functionality of Cisco ONE Software, and is required for a minimum of 12 months. SWSS protects your investments through access to ongoing innovation, license portability, major software upgrades, minor software updates and maintenance, access to our award-winning Technical Assistance Center (TAC), and instant access to online resources. By providing an integrated and comprehensive service, we help you quickly resolve issues while seeing cost savings and productivity gains.

Your SWSS contract provides:

- Access to the TAC for software issues 24 hours a day, 7 days a week
- Major upgrades, minor updates, and maintenance for licensed software applications
- Software license portability entitlement
- Access to ongoing innovation
- Access to online resources
- Investment protection

To help ensure coverage for your Cisco base OS software and hardware, Cisco Smart Net Total Care (SNTC) is highly recommended. SNTC provides 24-hour global support for the underlying hardware platforms where Cisco ONE Software is deployed.

Cisco Smart Net Total Care includes access to TAC for hardware and entitlement to smart capabilities to reduce your operating expenses and free your IT staff to focus on business innovation. Entitlement provides self-service access to the SNTC portal, free download of the Cisco collector software, and community support for the portal and collector. SNTC includes:

- Access to the TAC for hardware and base OS software issues 24 hours a day, 7 days a week
- Software updates for base OS software
- Access to online resources
- Advance hardware replacement
- Entitlement to smart capabilities

By providing an integrated and comprehensive service, we help you quickly resolve issues while seeing cost savings and productivity gains.

Professional services for Cisco ONE Software

Professional services for Cisco ONE Software include optional Quick Start enablement services tailored to domain-specific Cisco ONE Software bundles and use cases. These services help you quickly deploy all Cisco ONE Software feature and capabilities.

The expert guidance, processes, and tools from Cisco and our partner professional services organizations help you fully realize the technology benefits, reduce implementation risk, and achieve faster time-to-value. These fixed-scope, fixed-price services can be ordered alongside Cisco ONE Software products with a single click, greatly simplifying the ordering process.

Quick-start services include basic end-to-end turn-up of new capabilities and, depending on which Cisco ONE Software product you buy, may include one or more of the following:

- Technology transformation and strategy workshop
- Readiness assessment of software environment
- Logical changes to underlying network, computing, or storage architecture
- Software installation, configuration, and customization
- Task automation and orchestration
- Migration and on-boarding
- Feature and functionality test
- Development of operational run books
- Knowledge transfer

Cisco also offers an optional set of day-2 services for adoption, change management, and optimization for Cisco ONE Software, including ongoing support for:

- Change governance
- Continuous assessment, monitoring, and optimization of software features and capabilities
- Basic enablement and design for additional capabilities
- Basic enablement and design for system integration
- Planning for technology optimization and transformation
- Proactive bug scrubs, metrics measurement, and software reviews

The combination of day-1 (Quick Start planning and deployment) and day-2 (Adoption, Change Management, and Optimization) professional services delivers optimal support for Cisco ONE Software and enhances your ability to achieve your desired business outcomes.

Cisco ONE for Access Switching ordering information

For a complete list of Cisco ONE for Access Switching product and service part numbers, [click here](#).

Cisco Capital financing to help you achieve your objectives

Cisco Capital[®] financing can help you acquire the technology you need to achieve your objectives and stay competitive. We can help you reduce CapEx, 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. Cisco Capital financing is available in more than 100 countries. [Learn more](#).

For more information

To learn more about how Cisco ONE Software can help your organization, visit the Cisco ONE website: <https://www.cisco.com/go/one>. If you're interested in having a conversation about Cisco ONE Software, please contact your account manager or authorized reseller.



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