



AnyConnect Secure Mobility Client Features, Licenses, and OSs, Release 4.6

This document identifies the AnyConnect release 4.6 features, license requirements, and endpoint operating systems that AnyConnect features support.

Supported Operating Systems

Cisco AnyConnect Secure Mobility Client 4.6 supports the following operating systems.

| Operating System | Version |
|------------------|---|
| Windows | Current Microsoft supported versions of Windows 10 x86(32-bit) and x64(64-bit) Windows 8.1 x86(32-bit) and x64(64-bit) Windows 8 x86(32-bit) and x64(64-bit) Windows 7 SP1 x86(32-bit) and x64(64-bit) |
| Mac | macOS 10.11, 10.12, 10.13*, and 10.14(64-bit) |
| Linux | Red Hat 6 and 7 (64-bit) Ubuntu 14.04 (LTS), 16.04 (LTS), and 18.04 (LTS) (all 64-bit) |

*To use AnyConnect with macOS 10.13 (High Sierra), you must follow a manual process to leverage AnyConnect's complete capabilities. AnyConnect 4.5.02033 has warnings to guide you through the steps. During AnyConnect installation of 4.5.02033, you see a "System Extension Blocked" message that says that if you want to enable this kernel extension, you must open Security and Privacy System Preferences. By clicking OK at this message, a window pops up that details what attention is required to enable the system extension. The window prompts you to **Open Preferences** and **Allow** the Cisco system software in the Security & Privacy screen.

AnyConnect releases 4.3.3086 and 4.2.6014 are the minimum required releases for macOS 10.12 support.

Note: Cisco no longer supports AnyConnect releases for Windows XP.

See the [Release Notes for Cisco AnyConnect Secure Mobility Client](#) for OS requirements and support notes. See the [Supplemental End User Agreement \(SEULA\)](#) for licensing terms and conditions. See the [Cisco AnyConnect Ordering Guide](#) for a breakdown of orderability and the specific terms and conditions of the various licenses.

See the Feature Matrix below for license information and operating system limitations that apply to AnyConnect modules and features.

AnyConnect 4.3 (and later) has moved to the Visual Studio (VS) 2015 build environment and requires VS redistributable files for its Network Access Manager module functionality. These files are installed as part of the install package. You can use the .msi files to upgrade the Network Access Manager module to 4.3 (or later), but the AnyConnect Security Mobility Client must be upgraded first and running release 4.3 (or later).

Also, with the addition of the AnyConnect Umbrella Roaming Security Module, Microsoft .NET 4.0 is required.

License Options

Use of the AnyConnect Secure Mobility Client 4.6 requires that you purchase either an AnyConnect Plus or AnyConnect Apex license. The license(s) required depends on the AnyConnect VPN Client and Secure Mobility features that you plan to use, and the number of sessions that you want to support. These user-based licenses include access to support and software updates to align with general BYOD trends.

AnyConnect 4.6 licenses are used with Cisco ASA 5500 Series Adaptive Security Appliances (ASA), Integrated Services Routers (ISR), Cloud Services Routers (CSR), and Aggregated Services Routers (ASR), as well as other non-VPN headends such as Identity Services Engine (ISE), Cloud Web Security (CWS), and Web Security Appliance (WSA). A consistent model is used regardless of the headend, so there is no impact when headend migrations occur.

One or more of the following AnyConnect licenses may be required for your deployment:

| License | Description |
|----------------------|--|
| AnyConnect Plus | Supports basic AnyConnect features such as VPN functionality for PC and mobile platforms (AnyConnect and standards-based IPsec IKEv2 software clients), FIPS, basic endpoint context collection, 802.1x Windows supplicant, and web security SSL VPN. Plus licenses are most applicable to environments previously served by the AnyConnect Essentials license and users of Network Access Manager or Web Security modules. |
| AnyConnect Apex | Supports all basic AnyConnect Plus features in addition to advanced features such as clientless VPN, VPN posture agent, unified posture agent, Next Generation Encryption/Suite B, SAML, all plus services and flex licenses. Apex licenses are most applicable to environments previously served by the AnyConnect Premium, Shared, Flex, and Advanced Endpoint Assessment licenses. |
| VPN Only (Perpetual) | Supports VPN functionality for PC and mobile platforms, clientless (browser-based) VPN termination on ASA, VPN-only compliance and posture agent in conjunction with ASA, FIPS compliance, and next-generation encryption (Suite B) with AnyConnect and third-party IKEv2 VPN clients. VPN only licenses are most applicable to environments wanting to use AnyConnect exclusively for remote access VPN services but with high or unpredictable total user counts. No other AnyConnect function or service (such as Web Security module, Cisco Umbrella Roaming, ISE Posture, Network Visibility module, or Network Access Manager) is available with this license. |

AnyConnect Plus and Apex Licenses

From the Cisco Commerce Workspace website, choose the service tier (Apex or Plus) and the length of term (1, 3, or 5 year). The number of licenses that are needed is based on the number of unique or authorized users that will make use of AnyConnect. AnyConnect 4.6 is not licensed based on simultaneous connections. You can mix Apex and Plus licenses in the same environment, and only one license is required for each user.

AnyConnect 4.6 licensed customers are also entitled to earlier AnyConnect releases.

Features Matrix

AnyConnect 4.6 modules and features, with their minimum release requirements, license requirements, and supported operating systems are listed in the following sections:

- [AnyConnect Deployment and Configuration](#)
- [AnyConnect Core VPN Client](#)
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- [Umbrella Roaming Security Module](#)

AnyConnect Deployment and Configuration

| Feature | Minimum ASA/ASDM Release | License Required | Windows | Mac | Linux |
|--|---------------------------|------------------|---------|-----|-------|
| Deferred Upgrades | ASA 9.0 ASDM 7.0 | Plus | yes | yes | yes |
| Windows Services Lockdown | ASA 8.0(4) ASDM 6.4(1) | Plus | yes | no | no |
| Update Policy, Software and Profile Lock | ASA 8.0(4) ASDM 6.4(1) | Plus | yes | yes | yes |
| Auto Update | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | yes |
| Web Launch (32 bit browsers only) | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | yes |
| Pre-deployment | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | yes |

| Feature | Minimum ASA/ASDM Release | License Required | Windows | Mac | Linux |
|-----------------------------|---------------------------------|-------------------------|----------------|------------|--------------|
| Auto Update Client Profiles | ASA 8.0(4) ASDM 6.4(1) | Plus | yes | yes | yes |
| AnyConnect Profile Editor | ASA 8.4(1) ASDM 6.4(1) | Plus | yes | yes | yes |
| User Controllable Features | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | no |

AnyConnect Core VPN Client

Core Features

| Feature | Minimum ASA/ASDM Release | License Required | Windows | Mac | Linux |
|---|----------------------------|-------------------------|---------|-----|-------|
| SSL (TLS & DTLS), including Per App VPN | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | yes |
| TLS Compression | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | yes |
| DTLS fallback to TLS | ASA 8.4.2.8 ASDM 6.3(1) | Plus | yes | yes | yes |
| IPsec/IKEv2 | ASA 8.4(1) ASDM 6.4(1) | Plus | yes | yes | yes |
| Split tunneling | ASA 8.0(x) ASDM 6.3(1) | Plus | yes | yes | yes |
| Dynamic Split Tunneling | ASA 9.0 | Plus, Apex, or VPN-only | yes | yes | no |
| Enhanced Dynamic Split Tunneling | ASA 9.8(2) | Plus, Apex, or VPN-only | yes | yes | no |
| Split DNS | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | no |
| Ignore Browser Proxy | ASA 8.3(1) ASDM 6.3(1) | Plus | yes | yes | no |
| Proxy Auto Config (PAC) file generation | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | no | no |
| Internet Explorer tab lockdown | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | no | no |
| Optimal Gateway Selection | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | no |
| Global Site Selector (GSS) compatibility | ASA 8.0(4) ASDM 6.4(1) | Plus | yes | yes | yes |
| Local LAN Access | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | yes |
| Tethered device access via client firewall rules, for synchronization | ASA 8.3(1) ASDM 6.3(1) | Plus | yes | yes | yes |
| Local printer access via client firewall rules | ASA 8.3(1) ASDM 6.3(1) | Plus | yes | yes | yes |

| Feature | Minimum ASA/ASDM Release | License Required | Windows | Mac | Linux |
|-----------------------------|---------------------------------|-------------------------|----------------|------------|--------------|
| IPv6 | ASA 9.0 ASDM 7.0 | Plus | yes | yes | no |
| Further IPv6 implementation | ASA 9.7.1 ASDM 7.7.1 | Plus | yes | yes | yes |
| Certificate Pinning | no dependency | Plus, Apex, or VPN-only | yes | yes | yes |

Connect and Disconnect Features

| Feature | Minimum ASA/ASDM Release | License Required | Windows | Mac | Linux |
|--|---------------------------|------------------|---------|-----|-------|
| Simultaneous Clientless & AnyConnect connections | ASA 8.0(4) ASDM 6.3(1) | Apex | yes | yes | yes |
| Start Before Logon (SBL) | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | no | no |
| Run script on connect & disconnect | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | yes |
| Minimize on connect | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | yes |
| Auto connect on start | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | yes |
| Auto reconnect (disconnect on system suspend, reconnect on system resume) | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | no |
| Remote User VPN Establishment (permitted or denied) | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | no | no |
| Logon Enforcement (terminate VPN session if another user logs in) | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | no | no |
| Retain VPN session (when user logs off, and then when this or another user logs in) | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | no | no |
| Trusted Network Detection (TND) | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | yes |
| Always on (VPN must be connected to access network) | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | no |
| Always on exemption via DAP | ASA 8.3(1) ASDM 6.3(1) | Plus | yes | yes | no |
| Connect Failure Policy (Internet access allowed or disallowed if VPN connection fails) | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | no |
| Captive Portal Detection | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | yes |
| Captive Portal Remediation | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | no |

Authentication and Encryption Features

| Feature | Minimum ASA/ASDM Release | License Required | Windows | Mac | Linux |
|--|---|-------------------------|---------|-----|-------|
| Certificate only authentication | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | yes |
| RSA SecurID /SoftID integration | | Plus | yes | no | no |
| Smartcard support | | Plus | yes | yes | no |
| SCEP (requires Posture Module if Machine ID is used) | | Plus | yes | yes | no |
| List & select certificates | | Plus | yes | no | no |
| FIPS | | Plus | yes | yes | yes |
| SHA-2 for IPsec IKEv2 (Digital Signatures, Integrity, & PRF) | ASA 8.0(4) ASDM 6.4(1) | Plus | yes | yes | yes |
| Strong Encryption (AES-256 & 3des-168) | | Plus | yes | yes | yes |
| NSA Suite-B (IPsec only) | ASA 9.0 ASDM 7.0 | Apex | yes | yes | yes |
| Enable CRL check | n/a | Apex | yes | no | no |
| SAML 2.0 SSO | ASA 9.7.1 ASDM 7.7.1 | Apex or VPN only | yes | yes | yes |
| Enhanced SAML 2.0 | ASA 9.7.1.24 ASA 9.8.2.28 ASA 9.9.2.1 | Apex or VPN only | yes | yes | yes |
| Multiple-certificate authentication | ASA 9.7.1 ASDM 7.7.1 | Plus, Apex, or VPN only | yes | yes | yes |

Interfaces

| Feature | Minimum ASA/ASDM Release | License Required | Windows | Mac | Linux |
|---|--------------------------|------------------|---------------------|-----|-------|
| GUI | ASA 8.0(4) | Plus | yes | yes | yes |
| Command Line | ASDM 6.3(1) | | yes | yes | yes |
| API | | | yes | yes | yes |
| Microsoft Component Object Module (COM) | | | yes | no | no |
| Localization of User Messages | | | yes | yes | no |
| Custom MSI transforms | | | yes | no | no |
| User defined resource files | | | yes | yes | no |
| Client Help | | | ASA 9.0 ASDM 7.0 | yes | yes |

AnyConnect Network Access Manager

| Feature | Minimum ASA/ASDM Release | License Required | Windows | Mac | Linux |
|---|---------------------------|------------------|---------|-----|-------|
| Core | ASA 8.4(1) ASDM 6.4(1) | Plus | yes | no | no |
| Wired support IEEE 802.3 | | | yes | | |
| Wireless support IEEE 802.11 | | | yes | | |
| Pre-logon & Single Sign on Authentication | | | yes | | |
| IEEE 802.1X | | | yes | | |
| IEEE 802.1AE MACsec | | | yes | | |
| EAP methods | | | yes | | |
| FIPS 140-2 Level 1 | | | yes | | |
| Mobile Broadband support | ASA 8.4(1) ASDM 7.0 | | yes | | |
| IPv6 | ASA 9.0 | | yes | | |
| NGE and NSA Suite-B | ASDM 7.0 | | yes | | |

AnyConnect Secure Mobility Modules

Hostscan and Posture Assessment

| Feature | Minimum ASA/ASDM Release | License Required | Windows | Mac | Linux |
|---------------------------------------|---------------------------|------------------|---------|-----|-------|
| Endpoint Assessment | ASA 8.0(4) | Apex | yes | yes | yes |
| Endpoint Remediation | ASDM 6.3(1) | Apex | yes | yes | yes |
| Quarantine | | Apex | yes | yes | yes |
| Quarantine status & terminate message | ASA 8.3(1) ASDM 6.3(1) | Apex | yes | yes | yes |
| HostScan Package Update | ASA 8.4(1) ASDM 6.4(1) | Apex | yes | yes | yes |
| Host Emulation Detection | | Apex | yes | no | no |
| OPSWAT v4 | ASA 9.9(1) ASDM 7.9(1) | Apex | yes | yes | yes |

ISE Posture

| Feature | Minimum AnyConnect Release | Minimum ASA/ASDM Release | Minimum ISE Release | License Required | Windows | Mac | Linux |
|---|----------------------------|--------------------------|---------------------|------------------|---------|-----|-------|
| Change of Authorization (CoA) | 4.0 | ASA 9.2.1 ASDM 7.2.1 | 2.0 | Plus | yes | yes | yes |
| ISE Posture Profile Editor | 4.0 | ASA 9.2.1 ASDM 7.2.1 | n/a | Apex | yes | yes | yes |
| AC Identity Extensions (ACIDex) | 4.0 | n/a | 2.0 | Plus | yes | yes | yes |
| ISE Posture Module | 4.0 | n/a | 2.0 | Apex | yes | yes | no |
| Detection of USB mass storage devices (v4 only) | 4.3 | n/a | 2.1 | Apex | yes | no | no |
| OPSWAT v4 | 4.3 | n/a | 2.1 | Apex | yes | yes | no |
| Stealth Agent for posture | 4.4 | n/a | 2.2 | Apex | yes | yes | no |
| Continuous endpoint monitoring | 4.4 | n/a | 2.2 | Apex | yes | yes | no |
| Next-generation provisioning and discovery | 4.4 | n/a | 2.2 | Apex | yes | yes | no |
| Application kill and uninstall capabilities | 4.4 | n/a | 2.2 | Apex | yes | yes | no |
| Cisco Temporal Agent | 4.5 | n/a | 2.3 | ISE Apex | yes | yes | no |

| Feature | Minimum AnyConnect Release | Minimum ASA/ASDM Release | Minimum ISE Release | License Required | Windows | Mac | Linux |
|---|----------------------------|--------------------------|---------------------|----------------------|---------|-----|-------|
| Enhanced SCCM approach | 4.5 | n/a | 2.3 | AC Apex and ISE Apex | yes | no | no |
| Posture policy enhancements for optional mode | 4.5 | n/a | 2.3 | AC Apex and ISE Apex | yes | yes | no |
| Periodic probe interval in profile editor | 4.5 | n/a | 2.3 | AC Apex and ISE Apex | yes | yes | no |
| Visibility into hardware inventory | 4.5 | n/a | 2.3 | AC Apex and ISE Apex | yes | yes | no |
| Grace period for noncompliant devices | 4.6 | n/a | 2.4 | AC Apex and ISE Apex | yes | yes | yes |
| Posture rescan | 4.6 | n/a | 2.4 | AC Apex and ISE Apex | yes | yes | yes |
| AnyConnect stealth mode notifications | 4.6 | n/a | 2.4 | AC Apex and ISE Apex | yes | yes | yes |
| Disabling UAC prompt | 4.6 | n/a | 2.4 | AC Apex and ISE Apex | yes | no | no |

Web Security

| Feature | Minimum ASA/ASDM Release | License Required | Windows | Mac | Linux |
|----------------------------------|--------------------------|------------------|---------|-----|-------|
| Core | ASA 8.4(1) | Plus | Yes | yes | no |
| Cloud-Hosted Configuration | ASDM 6.4(1) | | Yes | | |
| Secure Trusted Network Detection | ASA 8.4(1) | | | | |
| Dynamic Configuration Elements | ASDM 7.0 | | | | |
| Fail Close / Fail Open Policy | | | | | |

AMP Enabler

| Feature | Minimum ASA/ASDM Release | Minimum ISE Release | License Required | Windows | Mac | Linux |
|-------------|--------------------------|---------------------|------------------|---------|-----|-------|
| AMP enabler | ASDM 7.4.2 ASA 9.4.1 | ISE 1.4 | Plus | Yes | Yes | No |

Network Visibility Module

| Feature | Minimum ASA/ASDM Release | Minimum ISE Release | License Required | Windows | Mac | Linux |
|--|--------------------------|---------------------|------------------|---------|-----|-------|
| Network Visibility Module | ASDM 7.5.1 ASA 9.5.1 | no ISE dependency | Apex | Yes | Yes | Yes |
| Adjustment to the rate at which data is sent | ASDM 7.5.1 ASA 9.5.1 | no ISE dependency | Apex | Yes | Yes | Yes |
| Customization of NVM timer | ASDM 7.5.1 ASA 9.5.1 | no ISE dependency | Apex | Yes | Yes | Yes |
| Broadcast and multicast option for data collection | ASDM 7.5.1 ASA 9.5.1 | no ISE dependency | Apex | Yes | Yes | Yes |
| Creation of anonymization profiles | ASDM 7.5.1 ASA 9.5.1 | no ISE dependency | Apex | Yes | Yes | Yes |
| Broader data collection and anonymization with hashing | ASDM 7.7.1 ASA 9.7.1 | no ISE dependency | Apex | Yes | Yes | Yes |
| Support for Java as a container | ASDM 7.7.1 ASA 9.7.1 | no ISE dependency | Apex | Yes | Yes | Yes |
| Configuration of cache to customize | ASDM 7.7.1 ASA 9.7.1 | no ISE dependency | Apex | Yes | Yes | Yes |
| Periodic flow reporting | ASDM 7.7.1 ASA 9.7.1 | no ISE dependency | Apex | Yes | Yes | Yes |

Umbrella Roaming Security Module

| Feature | Minimum ASA/ASDM Release | Minimum ISE Release | License Required | Windows | Mac | Linux |
|----------------------------------|--------------------------|---------------------|--|---------|-----|-------|
| Umbrella Roaming Security Module | ASDM 7.6.2 ASA 9.4.1 | ISE 2.0 | Either Plus or Apex Umbrella licensing is mandatory | Yes | Yes | No |

For information on Umbrella licensing, see <https://www.opendns.com/enterprise-security/threat-enforcement/packages/>.

Reporting and Troubleshooting Modules

Customer Experience Feedback

| Feature | Minimum ASA/ASDM Release | License Required | Windows | Mac | Linux |
|------------------------------|--------------------------|------------------|---------|-----|-------|
| Customer Experience Feedback | ASA 8.4(1) ASDM 7.0 | Plus | yes | yes | no |

Diagnostic and Report Tool (DART)

| Log Type | Minimum ASA/ASDM Release | License Required | Windows | Mac | Linux |
|------------------------|---------------------------|------------------|---------|-----|-------|
| VPN | ASA 8.0(4) ASDM 6.3(1) | Plus | yes | yes | yes |
| Network Access Manager | ASA 8.4(1) ASDM 6.4(1) | Apex | yes | no | no |
| Posture Assessment | | | yes | yes | yes |
| Web Security | | | yes | yes | no |

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