Supported VPN Platforms, Cisco ASA 5500 Series

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This document, previously titled *Adaptive Security Appliance VPN Compatibility Reference*, includes the following compatibility and VPN platform information:

Note We have tested the features on the operating systems (OSs) and web browsers named in this document; however, they might work on other OSs and browsers.

For more information, go to the release notes and configuration guides for the products named in this document.

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ASA, ASDM, Cisco Secure Desktop, and AnyConnect Compatibility

The following table shows the compatibility of the adaptive security appliance with Adaptive Security Device Manager, Cisco Secure Desktop, and the AnyConnect VPN client:

ASA	ASDM	Cisco Secure Desktop	AnyConnect VPN Client
8.0(4) and later[1]	6.1(3) and later	3.3.0.118 and later	Cisco AnyConnect Client 2.2.0133 and later
8.0(3)	6.1(3) and later	3.2.1.103 or 3.3.0.118 and later	Cisco AnyConnect Client 2.1.0128 to 2.1.0148
8.0(2)	6.1(3) and later	3.2.0.136 (subsequently referenced as “3.2”)	Cisco AnyConnect Client 2.0.0343 (subsequently referenced as “2.0”)
7.1(x) - 7.2(x)	5.1(x) - 5.2(x)	3.1.1.45 (subsequently referenced as “3.1.1”)[2]	Cisco SSL VPN Client 1.x

1. ASA 8.x and later do not support Cisco SSL VPN Client 1.x.
2. Cisco Secure Desktop does not support Cisco SSL VPN Client 1.x.

Browser-based SSL VPN

The following sections list the VPN platforms supported by browser-based SSL VPN access:

- Browser-based SSL VPN Support for Computer OSs, Release 8.3
- Browser-based SSL VPN Support for Computer OSs, Releases 8.0 – 8.2
- Browser-based SSL VPN Support for Mobile Devices

Browser-based SSL VPN Support for Computer OSs, Release 8.3

Adaptive security appliances running Release 8.3 support SSL VPN connections over browser-based sessions from the following OSs and browsers.

OSs	Browsers
Windows 7 on x86 (32-bit) and x64(64-bit)	Internet Explorer 8.x Firefox 3.x
Windows Vista on x64	Internet Explorer 7.x/8.x, Firefox 3.x
Windows Vista SP2 on x86 Vista SP1 with KB952876 or later on x86	Microsoft Internet Explorer 7 Firefox 2.0 or later.
Windows XP SP2 or later	Microsoft Internet Explorer 7 and 6 Firefox 2.0 or later.
Apple: Mac OS X 10.5	Safari 2.x Firefox 3.x.
Mac OS X 10.6 32- and 64-bit	Safari 4.x Firefox 3.x
Linux	Firefox 2.0 or later.

Release 8.3 supports browser-based access for 64-bit applications on Mac OS 10.5.

Browser-based access no longer supports Windows 2000, Mac OS X 10.4, and Firefox 2.x although they are likely to work.

Browser-based access does not support Google Chrome; however, preliminary testing indicates that smart tunnel access and plug-ins require at least JRE6 Beta 10 to work with this browser.

The following application notes apply to browser-based access on Release 8.3:

- Smart tunnel access supports all 32-bit and 64-bit Windows and Mac OSs supported for browser-based VPN access. Smart tunnel does not support Linux. Additional requirements and limitations apply.
- Port forwarding does not support Windows 7 and 64-bit OSs. Additional requirements and limitations apply.
- An ActiveX version of the RDP plug-in is not available for 64-bit browsers.
- The Windows Shares (CIFS) Web Folders feature does not support Windows 7, Vista, Internet Explorer 8, Mac OS, and Linux. Windows XP SP2 or later requires Microsoft KB892211 hotfix to support Web Folders.
- On Mac OS, Certificate authentication, including the DoD Common Access Card and SmartCard, works with the Safari keychain only.
- For Microsoft Outlook Exchange communication using the MAPI protocol, remote users must use AnyConnect.

Browser-based SSL VPN Support for Computer OSs, Releases 8.0 – 8.2

Adaptive security appliances running Releases 8.0–8.2 support SSL VPN connections over browser-based sessions from the following OSs and browsers.

OSs	Browser
Windows Vista SP2 Vista SP1 with KB952876 or later.	Microsoft Internet Explorer 7 Firefox 2.x and 3.x
Windows XP SP2 or later.	Microsoft Internet Explorer 7 and 6 Firefox 2.x and 3.x
Windows 2000 SP4.	Microsoft Internet Explorer 7 and 6 Firefox 2.x and 3.x
Apple: Mac OS X 10.4 and 10.5	Safari 2.x Firefox 2.x and 3.x
Linux	Firefox 2.x and 3.x

The following application notes apply to browser-based access on Releases 8.0– 8.2:

- Although Releases 8.0 – 8.2 do not support Windows 7 with clientless SSL features, Release 8.2 supports the installation of HostScan and AnyConnect using WebLaunch over a clientless SSL connection established with Internet Explorer 8.0 on Windows 7.
- The Windows Shares (CIFS) Web Folders feature does not support Windows Vista, Mac OS, and Linux. Windows XP SP2 or later and Windows 2000 SP4 require Microsoft KB892211 hotfix to support Web Folders.
- Additional requirements and limitations apply to smart tunnel access and port forwarding.
- On Mac OS, certificate authentication, including the DoD Common Access Card and SmartCard, works with the Safari keychain only.
- For Microsoft Outlook Exchange communication using the MAPI protocol, remote users must use AnyConnect.

Browser-based SSL VPN Support for Mobile Devices

You can access Clientless SSL VPN from your Pocket PC or other certified personal digital assistant (PDA). Neither the ASA administrator nor the Clientless SSL VPN user need do anything special to use Clientless SSL VPN with a certified mobile device. Cisco has certified the following mobile devices for SSL VPN clientless connections:

Device	OS	Browser
HP iPAQ h4150	Pocket PC 2003 and Windows CE 4.20.0 (Build 14053)	Pocket IE
HP iPAQ hx2495b	Windows CE 5.0 5.1.1702 (Build 14366.1.0.1)	Pocket IE
HTC p3600 PDA Phone	Windows Mobile 5.0 5.1.465 (Build 15673.3.3.1)	Pocket IE
iPhone	Software Update 1.1.3 and later	Safari

Other mobile devices (e.g., the BlackBerry) might work but are not supported.

The iPhone does not have a Java Runtime Environment (JRE) and does not support SSL, so the following SSL VPN features are not supported: application access, auto applet download, client/server plug-ins, and e-mail proxy.

Note Smart tunnels, plug-ins, and port forwarding do not support mobile access.

AnyConnect

The following sections list the VPN platforms that AnyConnect supports:

- AnyConnect 2.4 Computer OSs Supported
- AnyConnect 2.4 Windows Mobile Devices Supported
- AnyConnect 2.3 Computer OSs Supported
- AnyConnect 2.3 Windows Mobile Devices Supported
- AnyConnect 2.0 – 2.2 Computer OSs Supported

AnyConnect 2.4 Computer OSs Supported

AnyConnect VPN Client 2.4 supports the following computer OSs.

OSs	Notes:
Microsoft Windows AnyConnect 2.5 supports the following Windows OSs: • Windows 7 on x86 (32-bit) and x64 (64-bit) AnyConnect requires a clean install if you upgrade from Windows XP to Windows 7. If you upgrade from Windows Vista to Windows 7, manually uninstall AnyConnect first, then after the upgrade, reinstall it manually or by establishing a web-based connection to a security appliance configured to install it. Uninstalling AnyConnect before the upgrade and reinstalling it afterwards is necessary because the upgrade does not preserve the Cisco AnyConnect Virtual Adapter. • Windows Vista on x86 (32-bit) and x64 (64-bit)—SP2 or Vista SP1 with KB952876. AnyConnect requires a clean install if you upgrade from Windows XP to Windows Vista. • Windows XP SP2 and SP3.	Requirements • Pentium class processor or greater. • x64 or x86 processors. • 5 MB hard disk space. • RAM: – 256 MB for Windows XP. – 512 MB for Windows Vista. – 512 MB for Windows 7. • Microsoft Installer, version 3.1. If you are using Internet Explorer, use version 5.0, SP2 or later. For WebLaunch, use 32-bit Internet Explorer 6.0 or later, or Firefox 2.0 or later, and enable ActiveX or enable Sun JRE 5 Update 1.5 or later (JRE 6 recommended)
Apple AnyConnect 2.4 supports the following versions of Mac OS: • Mac OS X 10.5 • Mac OS X 10.6 and 10.6.1 (both on 32-bit and 64-bit).	50 MB hard disk space required
Linux AnyConnect supports the following distributions: • Red Hat Enterprise Linux 5 Desktop • Ubuntu 9.x We do not validate other Linux distributions. We will consider requests to validate other Linux distributions for which you experience issues, and provide fixes at our discretion.	AnyConnect supports only standalone installations on Linux. See the AnyConnect Linux Requirements for AnyConnect 2.4.

Cisco AnyConnect Client, when launched as a standalone client, supports any browser.

To install AnyConnect through a web browser (WebLaunch), the user platform must match one of those in the "Browser-based SSL VPN" section, with one exception: WebLaunch requires the 32-bit version of Internet Explorer. Please instruct users of x64 (64-bit) Windows versions supported by AnyConnect to use the 32-bit version of Internet Explorer or Firefox to install WebLaunch. (At this time, Firefox is available only in a 32-bit version.)

AnyConnect does not support virtualization software such as VMware and Parallels Desktop.

AnyConnect 2.4 Windows Mobile Devices Supported

We designed AnyConnect 2.4 for compatibility with Windows Mobile 6.1, 6.0 and 5.0 Professional and Classic for touch-screens only. Users have reported success with most touch-screens running these versions of Windows Mobile. However, to ensure interoperability, we guarantee compatibility only with the devices we test. The following table lists the supported devices with their corresponding service providers and supported operating system versions. AnyConnect 2.4 adds support for the HTC and Samsung devices.

Device	OS	Wi-Fi
ATT Tilt 3.57.502.2 WWE **Note**: TouchFLO must be disabled.	Windows Mobile 6.1 Professional	✓
Axim X51v with ROM: A03 (23092007	Windows Mobile 6.0 Classic	✓
HTC Touch Pro	Windows Mobile 6.1 Professional	✓
iPAQ 2790	Windows Mobile 5.0 PocketPC	✓
Palm Treo 700wx: • Sprint TREO 700WX-1.15-SPNT	Windows Mobile 5.0+AKU2 PDA Phone	—
Palm Treo 750: • AT&T TREO750-2.27-RWE • AT&T TREO 750-2.25-ATT • T-Mobile TREO750-2.27-RWE	Windows Mobile 6.0 Professional	—
Palm Treo 800–Sprint Treo 800w-1.03-SPNT	Windows Mobile 6.1 Professional	✓
Palm Treo Pro: • AT&T T850UNA-1.01-NAE • Sprint T850EWW-1.03-SPT • T-Mobile T850UNA-1.01-NAE	Windows Mobile 6.1 Professional	✓
Samsung • Epix SGH-i907 • Omnia SCH-i910 • Saga SCH-i770	Windows Mobile 6.1 Professional	✓
Sprint Touch with ROM: 3.03.651.4 **Note**: TouchFLO must be disabled.	Windows Mobile 6.1 Professional	—
T-Mobile Wing 4.26.531.1 WWE	Windows Mobile 6.0 Professional	✓

Device	OS	Wi-Fi
Verizon XV6800 with ROM: 1.00.00.H: • Verizon 2.09.605.8 • Verizon 3.57.605.1	Windows Mobile 6.0 Professional and Windows Mobile 6.0 Professional	✓

AnyConnect 2.3 Computer OSs Supported

AnyConnect VPN Client 2.3 supports the following computer OSs.

OSs	Notes
Microsoft Windows: • x86 (32-bit) and x64 (64-bit) Microsoft Windows Vista SP2, or Vista SP1 with KB952876. AnyConnect requires a clean install if you upgrade from Windows XP to Windows Vista. • Windows XP SP2 or later. • Windows 2000 SP4.	Requirements • Pentium class processor or greater. • x64 or x86 processors on Windows XP and Windows Vista. • 5 MB hard disk space. • RAM: – 128 MB for Windows 2000. – 256 MB for Windows XP. – 512 MB for Windows Vista. • Microsoft Installer, version 3.1. If you are using Internet Explorer, use version 5.0, SP2 or later. For WebLaunch, use Internet Explorer 6.0 or later, or Firefox 2.0 or later, and enable ActiveX or install Sun JRE 5 Update 1.5 or later (JRE 6 recommended).
Apple: Mac OS X 10.4 and 10.5	50 MB hard disk space required
Linux	AnyConnect supports Linux Kernel releases 2.4 and 2.6 on 32-bit architectures, and 64-bit architectures that support biarch (that is, that run 32-bit code). AnyConnect supports only standalone installations on Linux. The following Linux distributions follow the AnyConnect Linux Requirements and work with the AnyConnect Client: • Ubuntu 7 and 8 (32-bit only). • Red Hat Enterprise Linux 3 or 4. (As of publication, we have not tested AnyConnect with Red Hat Linux 5.) • Fedora Core 4 through 9. To use Fedora 9 with the AnyConnect client, you must first install Sun Microsystems JRE, preferably JRE 6, Update 5 or higher. • Slackware 11 or 12.1. • openSUSE 10 • SUSE 10.1

Cisco AnyConnect Client, when launched as a standalone client, supports any browser; however to install AnyConnect through a web browser (WebLaunch), the user platform must match one of those in the "Browser-based SSL VPN" section.

AnyConnect does not support virtualization software such as VMware and Parallels Desktop.

AnyConnect 2.3 Windows Mobile Devices Supported

We designed AnyConnect 2.3 for compatibility with Windows Mobile 6.1, 6.0 and 5.0 Professional and Classic for touch-screens only. Users have reported success with most touch-screens running these versions of Windows Mobile. However, to ensure interoperability, we guarantee compatibility only with the devices we test. The following table lists the supported devices with their corresponding service providers and supported operating system versions.

Device	OS	Wi-Fi
ATT Tilt 3.57.502.2 WWE **Note**: TouchFLO must be disabled.	Windows Mobile 6.1 Professional	✓
Axim X51v with ROM: A03 (23092007	Windows Mobile 6.0 Classic	✓
iPAQ 2790	Windows Mobile 5.0 PocketPC	✓
Palm Treo 700wx–Sprint TREO 700WX-1.15-SPNT	Windows Mobile 5.0+AKU2 PDA Phone	—
Palm Treo 750: • AT&T TREO750-2.27-RWE • AT&T TREO 750-2.25-ATT • T-Mobile TREO750-2.27-RWE	Windows Mobile 6.0 Professional	—
Palm Treo 800: • Sprint Treo 800w-1.03-SPNT	Windows Mobile 6.1 Professional	✓
Palm Treo Pro: • AT&T T850UNA-1.01-NAE • Sprint T850EWW-1.03-SPT • T-Mobile T850UNA-1.01-NAE	Windows Mobile 6.1 Professional	✓
Sprint Touch with ROM: 3.03.651.4 **Note**: TouchFLO must be disabled.	Windows Mobile 6.1 Professional	—
T-Mobile Wing 4.26.531.1 WWE	Windows Mobile 6.0 Professional	✓
Verizon XV6800 with ROM: 1.00.00.H: • Verizon 2.09.605.8 • Verizon 3.57.605.1	Windows Mobile 6.0 Professional and Windows Mobile 6.0 Professional	✓

AnyConnect 2.0 – 2.2 Computer OSs Supported

AnyConnect VPN Client 2.0 – 2.2 supports the following computer OSs.

OSs	Notes
Microsoft Windows[1]: • x86 (32-bit) Microsoft Windows Vista and SP1 with KB952876 AnyConnect requires a clean install if you upgrade from Windows XP to Windows Vista. • x64 (64-bit) Microsoft Windows Vista and SP1 with KB952876 • x86 (32-bit) Microsoft Windows XP SP2 and SP3 • x64 (64-bit) Microsoft Windows XP SP2[2] • x86 (32-bit) Microsoft Windows 2000 SP4 with MSI 3.1 or later and MSXML 3.0 or later	Requirements • Pentium class processor or greater. • x64 or x86 processors on Windows XP and Windows Vista. • 5 MB hard disk space. • RAM: – 128 MB for Windows 2000. – 256 MB for Windows XP. – 512 MB for Windows Vista. • Microsoft Installer, version 3.1. If you are using Internet Explorer, use version 5.0, SP2 or later. For WebLaunch, use Internet Explorer 6.0 or later, or Firefox 2.0 or later, and enable ActiveX or install Sun JRE 5 Update 1.5 or later (JRE 6 recommended).
Apple: Mac OS X 10.4 and 10.5[2, 3, 4]	50 MB hard disk space required
Linux[2]	AnyConnect supports Linux Kernel releases 2.4 and 2.6 on 32-bit architectures, and 64-bit architectures that support biarch (that is, that run 32-bit code). The following Linux distributions follow the AnyConnect Linux Requirements and work with the AnyConnect Client: • Ubuntu 7 and 8 (32-bit only) • Red Hat Enterprise Linux 3 and 4 • Fedora Core 4 through 9. To use Fedora 9 with the AnyConnect client, you must first install Sun Microsystems JRE, preferably JRE 6, Update 5 or higher. • Slackware 11 and 12.1 • openSUSE 10 • SUSE 10.1

1. Start Before Logon supported beginning with AnyConnect 2.2 and Cisco Secure Desktop 3.2.1.
2. Start Before Logon not supported on x64 Windows XP SP2, Mac OS, and Linux.
3. Safari keychain required on Mac OS for certificate authentication, including DoD Common Access Card and SmartCard support.
4. WebLaunch support of Mac OS 10.5 beginning with AnyConnect 2.1

Cisco AnyConnect Client, when launched as a standalone client, supports any browser; however to install AnyConnect through a web browser (WebLaunch), the user platform must match one of those in the "Browser-based SSL VPN" section.

AnyConnect does not support virtualization software such as VMware and Parallels Desktop.

Cisco Secure Desktop

The following sections list the platforms and link to the lists of applications that Cisco Secure Desktop supports:

- Cisco Secure Desktop 3.5 Support for AnyConnect and Browser-based SSL
- Cisco Secure Desktop 3.1 – 3.4 Support for AnyConnect and Browser-based SSL
- Host Scan Support for Antivirus, Antispyware, and Firewall Applications

Cisco Secure Desktop 3.5 Support for AnyConnect and Browser-based SSL

Cisco Secure Desktop 3.5 supports only AnyConnect and browser-based SSL VPN connections. The following table shows the Cisco Secure Desktop modules and the OSs they support.

Module	Supported OSs
Host Scan	x86 (32-bit) and x64 (64-bit): Windows 7, Vista, Vista SP1, and Vista SP2 x64 (64-bit) Windows XP SP2, and x86 (32-bit) Windows XP SP2 and SP3 Windows Mobile versions 6.0, 6.1, 6.1.4, and 6.5 for touch screen devices only (Windows Mobile Professional). 32-bit and 64-bit Mac OS X 10.6, 10.6.1, 10.6.2 32-bit and 64-bit Mac OS X 10.5.x 32-bit and 64-bit biarch Redhat Enterprise Linux 3 32-bit and 64-bit biarch Redhat Enterprise Linux 4 32-bit and 64-bit biarch Fedora Core 4 and later Ubuntu 32-bit and 64-bit biarch Linux operating systems (that is, 64-bit operating systems that can run 32-bit code) require the 32-bit versions of these libraries to run Host Scan: libxml2, libcurl (with openssl support), openssl, glibc 2.3.2 or later, and libz.
Secure Desktop (Vault), Keystroke Logger Detection, and Host Emulation Detection	x86 (32-bit) Windows Vista, SP1, and SP2 (KB935855 must be installed.) x86 (32-bit) Windows XP SP2 and SP3 Notes: • AnyConnect supports the Vault only on Windows XP. • Secure Desktop, Keystroke Logger Detection and Host Emulation Detection do not support Windows 7.
Cache Cleaner	32-bit browsers only on the following OSs: • x86 (32-bit) and x64 (64-bit): Windows 7, Vista, Vista SP1, and Vista SP2 • x64 (64-bit) Windows XP SP2, and x86 (32-bit) Windows XP SP2 and SP3 • 32-bit and 64-bit Mac OS X 10.6.2, 10.6.1, and 10.6, and 10.5.x • 32-bit and 64-bit Redhat Enterprise Linux 4 and 3 • 32-bit and 64-bit Fedora Core 4 and later • Ubuntu 32-bit and 64-bit biarch Linux operating systems (that is, 64-bit operating systems that can run 32-bit code) require the 32-bit versions of these libraries to run Cache Cleaner: libxml2, libcurl (with openssl support), openssl, glibc 2.3.2 or later, and libz. **Note**: Cache Cleaner does not support the standalone startup of AnyConnect Client from any computer.

To enable Host Scan with WebStart, the remote user must do the following:

Step 1 Connecting to the ASA. The Opening webstart.xml window opens.

Step 2 Click **Open With** and **Choose**.

Step 3 Select **Applications/Utilities/Java/J2SE 5.0/Java Cache Viewer**.

Step 4 Click **OK**.

Do not associate jnlp files with javaws or Applications/Utilities/Java/Java Web Start.

Cisco Secure Desktop 3.1 – 3.4 Support for AnyConnect and Browser-based SSL

Cisco Secure Desktop supports only AnyConnect and browser-based SSL VPN connections. The following tables show the Cisco Secure Desktop modules and the OSs they support.

Module	Supported OSs
Host Scan	x64 (64-bit)[1] Microsoft Windows Vista SP2, or Vista SP1 with KB952876 (Cisco Secure Desktop 3.4.1 or later) x86 (32-bit) Microsoft Windows Vista SP2 (Cisco Secure Desktop 3.4.1 or later) x86 (32-bit) Microsoft Windows Vista and Vista SP1 with KB952876 (Cisco Secure Desktop 3.2.1.118 or later) x86 (32-bit) Windows XP SP2 or SP3 x64 (64-bit) Windows XP SP2 x86 (32-bit) Windows 2000 SP4 64-bit Mac OS X 10.4 and 10.5 (Cisco Secure Desktop 3.4.1 or later) 32- bit Mac OS X 10.4 and 10.5 (Cisco Secure Desktop 3.2.1 or later; 3.2.18 or later recommended) 32- and 64-bit biarch (that is, 64-bit that can run 32-bit code) Linux with the following requirements: libxml2, libcurl (with openssl support), openssl, glibc 2.3.2 or later, and libz (Cisco Secure Desktop 3.2.1 or later; 3.2.1.118 or later recommended)
Secure Desktop (Vault), Keystroke Logger Detection, and Host Emulation Detection	x86 (32-bit) Windows Vista with KB935855 (or later) must be installed. The AnyConnect standalone client does not support the Vault on Windows Vista; however you can use WebLaunch with Windows Vista. Also, Secure Desktop does not let Internet Explorer run outside the Vault on a host computer running Windows Vista. x86 (32-bit) Windows XP SP2 and SP3. x86 (32-bit) Windows 2000 SP4. **Note**: AnyConnect does not support the Vault.
Cache Cleaner	x86 (32-bit) and x64 (64-bit) Windows Vista and later. x86 (32-bit) Windows XP SP2 and SP3. x86 (32-bit) and x64 (64-bit) Windows XP SP2. x86 (32-bit) Windows 2000 SP4. 32- and 64-bit Mac OS X 10.4 – 10.5 with Safari 1.0 or later, or Firefox 2.0 or later. 32- or 64-bit biarch Linux with libxml2, libcurl (with openssl support), openssl, glibc 2.3.2 or later, and libz. WebLaunch requires Sun Java 1.5 or later and Firefox 2.0 or later. **Note**: Cache Cleaner does not support the standalone startup of AnyConnect Client from any computer.

1. Host Scan, Cache Cleaner, and AnyConnect via WebLaunch do not support 64-bit versions of Internet Explorer. Please instruct users of x64 (64-bit) Windows OSs to use the 32-bit version of Internet Explorer or Firefox to avoid VPN connection issues if you configure the adaptive security appliance to install Host Scan or Cache Cleaner on the VPN endpoint, or if users install AnyConnect via WebLaunch. (At this time, Firefox is available only in a 32-bit version.)

To enable Host Scan with WebStart, the remote user must do the following:

Step 1 Connecting to the ASA. The Opening webstart.xml window opens.

Step 2 Click **Open With** and **Choose**.

Step 3 Select **Applications/Utilities/Java/J2SE 5.0/Java Cache Viewer**.

Step 4 Click **OK**.

Do not associate jnlp files with javaws or Applications/Utilities/Java/Java Web Start.

Host Scan Support for Antivirus, Antispyware, and Firewall Applications

Host Scan examines the remote computer connecting to the VPN for antivirus and antispyware applications, and software firewalls for compliance with configured, corporate security policies. To access the list of packages that Host Scan supports, go to the webpage that applies:

- For Host Scan in Cisco Secure Desktop 3.5 or 3.4.2, go to the Cisco Secure Desktop Compatibility Information.
- For Host Scan in Cisco Secure Desktop 3.4 or 3.4.1, go to the Cisco Secure Desktop Configuration Guides.
- For Host Scan in Cisco Secure Desktop 3.3, go to "Antivirus, Antispyware, and Firewall Packages Supported by Host Scan," then click **Next** and **Accept** in the subsequent pages.

IPsec

The following sections identify the IPsec clients that connect to the ASA.

- IPsec Support for Computer Software and Hardware Clients
- IPsec Support for Mobile Clients

IPsec Support for Computer Software and Hardware Clients

All releases of the ASA support the following IPsec clients:

- Cisco VPN Client

  Cisco VPN Client 5.0.0.6 supports Microsoft Windows 7 x86 (32-bit), Vista all released x86 versions, and Windows XP x86. This release does not support Microsoft Windows 2000 and Tablet PC 2004/2005, although it may work with these OSs. Windows x64 (64-bit) requires the Cisco AnyConnect VPN Client.

  Cisco VPN Client Release 4.9.01 supports Mac OS X 10.4 & 10.5

  Cisco VPN Client Release 4.8.02 supports Linux (Red Hat)

  Cisco VPN Client Release 4.6.02 supports Solaris UltraSparc (32 and 64-bit)
- Cisco ASA 5505
- Cisco PIX 501 Firewall
- Cisco VPN 3002 hardware client

- Cisco IOS 8xx Series
- Microsoft L2TP/IPsec client

IPsec Support for Mobile Clients

The following sections identify the mobile IPsec clients that connect to the ASA.

IPsec for Apple iPhone 3G

The Apple iPhone 3G ships with advanced VPN Client capabilities for Cisco IPsec connectivity already installed. Original iPhone users can upgrade to the iPhone 2.0 software to take advantage of this new capability. Features of the VPN Client include:

- The following authentication types:
  - Pre-shared keys
  - Certificates
  - Xauth
  - One-time passwords, including tokens such as RSA, Rainbow, Entrust, and SafeNet
  - RADIUS, including both one-time password tokens and other types of xauth
  - RADIUS Expiry
  - Kerberos
- VPN load balancing (clustering)
- Split tunneling control

The Cisco ASA 5500 series and PIX Firewalls work with the Cisco VPN Client on the iPhone. We highly recommend the 8.0(x) software release or later, but you can also use the 7.2(x) software.

IPsec Support for Windows Mobile

For Windows Mobile, the following third-party vendors offer a VPN client that works with the ASA: Antha, Apani, Bluefire, Microsoft, and NCP.DE. Cisco supports the Microsoft client; the respective vendors support the other clients.

L2TP/IPsec Client Support for Mobile Devices

The following mobile OSs support a built-in L2TP/IPsec client that Cisco has tested successfully with the ASA:

- Microsoft Windows Mobile 2003 for Pocket PC PDA
- Microsoft Windows Mobile 5.0 PDA and PDA Phone
- Apple iPhone

The iPhone supports MS-CHAP v2 (preferred) for PPP. It has also been tested for MS-CHAP v1 and PAP support for PPP authentication. The VPN Client on the iPhone 3G supports pre-shared keys and certificates.

Windows Mobile based handheld devices support MS-CHAP v1 and v2, and pre-shared keys.

Some Windows Mobile 2003 (HP iPAQ h4150) and 5.0 (HP iPAQ hx 2495b) PDAs support enrollment with an available certificate authority server and can use certificate-based authentication.

IPsec Support Offered by Other Mobile Devices

Bluefire offers a version of the Palm Treo that has an IPsec client that works with the ASA.

Nokia provides support for Symbian on the Nokia 92xx Communicator series, Nokia 6600 and Nokia E61.