Release Notes for Cisco AnyConnect Secure Mobility Client, Release 4.1.x for Windows 10 Mobile and Phone 8.1

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AnyConnect for Windows Phone Release Notes

AnyConnect for Windows 10 Mobile and Windows Phone 8.1 Devices

The AnyConnect Secure Mobility Client provides remote users with secure VPN connections to the Cisco ASA 5500 Series. It provides seamless and secure remote access to enterprise networks allowing installed applications to communicate as though connected directly to the enterprise network. AnyConnect supports connections to IPv4 and IPv6 resources over an IPv4 or IPv6 tunnel.

This document, written for system administrators of the AnyConnect Secure Mobility Client and the Adaptive Security Appliance (ASA) 5500, supplements the Cisco AnyConnect Secure Mobility Client Administrator Guide, Release 4.1 and provides release specific information for AnyConnect running on Windows Phone devices.

The AnyConnect app is available on the Windows Store only. Cisco does not distribute AnyConnect mobile apps. Nor can you deploy the mobile app from the ASA. You can deploy other releases of AnyConnect for desktop devices from the ASA while supporting this mobile release.

AnyConnect Mobile Support Policy

Cisco supports the AnyConnect version that is currently available in the app store; however, fixes and enhancements are provided only in the most recently released version.

AnyConnect Licensing

To connect to the ASA headend an AnyConnect 4.x Plus or Apex license is required, trial licenses are available, see the Cisco AnyConnect Ordering Guide.

For the latest end-user license agreement, see Cisco End User License Agreement, AnyConnect Secure Mobility Client, Release 4.x.

For our open source licensing acknowledgments, see Open Source Software Used In Cisco AnyConnect Secure Mobility Client Release 4.0 for Mobile

AnyConnect Mobile Related Documentation

For more information refer to the following documentation:

- AnyConnect Release Notes
- AnyConnect Administrator Guides

- Navigating the Cisco ASA Series Documentation

Windows Phone Supported Devices

Windows 10 Mobile Support

AnyConnect on Windows Mobile or Windows Phone is supported on mobile devices that run Microsoft **Windows 10 Mobile**.

Windows 10 Mobile is not intended for non-mobile Windows 10 devices. Cisco has a fully featured version of AnyConnect available for non-mobile devices, which is not distributed in the Windows store.

Windows Phone 8.1 Support

Note "Effective December 31 2017, Cisco will no longer provide AnyConnect for Windows Phone 8.1 for new downloads in the Windows App Store. Microsoft has previously announced End of Support for this operating system https://support.microsoft.com/en-us/help/4001737/products-reaching-end-of-support-for-2017.

Till December 31, 2017 AnyConnect is also supported on mobile devices that run Microsoft **Windows Phone 8.1 Update** which includes the following versions: 8.10.14141.167, 8.10.14147.180, 8.10.14157.200, 8.10.14176.243, 8.10.14192.280, 8.10.14203.206, 8.10.14219.341, or 8.10.14226.359. The OS on the phone **must** be one of the listed versions in order for AnyConnect to work properly.

Users can verify their OS version at **Settings** > **About** > **More Information** on their device. For more OS version information see Microsoft's Windows Phone 8.1 update history.

Note Earlier versions of Windows Phone 8.1 will allow AnyConnect installation, but it will not operate or be available to configure under **Settings** > **VPN** > **AddProfile** > **Type**.

See Windows Phone User Guide for Cisco AnyConnect Secure Mobility Client, Release 4.1.x for installation and upgrade procedures.

New Features in AnyConnect 4.1.03024 for Windows 10 Mobile Devices

AnyConnect 4.1.03024 is a release candidate for Cisco AnyConnect Secure Mobility Client on Windows Phone mobile devices. It includes these Resolved Issues in AnyConnect 4.1.03024 for Windows Phone, on page 8.

Cisco recommends that you review the Guidelines and Limitations for AnyConnect on Windows 10 and Windows Phone 8.1, on page 6 to be aware of current operational considerations.

See the Windows 10 Mobile and Phone 8.1 AnyConnect Feature Matrix, on page 3 for a list of supported features in this app.

New Features in AnyConnect 4.1.03017 for Windows 10 Mobile Devices

AnyConnect 4.1.03017 is a release candidate of Cisco AnyConnect Secure Mobility Client on Windows Phone mobile devices. See the Windows 10 Mobile and Phone 8.1 AnyConnect Feature Matrix, on page 3 for a list of supported features in this app.

Cisco recommends that you review the Guidelines and Limitations for AnyConnect on Windows 10 and Windows Phone 8.1, on page 6 to be aware of current operational considerations.

Windows 10 Mobile and Phone 8.1 AnyConnect Feature Matrix

The following remote access features are supported by Cisco AnyConnect on Windows Phone:

Category: Feature	Windows Phone
Deployment and Configuration:	
Install or upgrade from Application Store	Yes
Cisco VPN Profile support (manual import)	No
Cisco VPN Profile support (import on connect)	No
MDM configured connection entries	Yes
User-configured connection entries	Yes
Tunneling:	
TLS	Yes
Datagram TLS (DTLS)	No
IPsec IKEv2 NAT-T	No
IKEv2 - raw ESP	No
Suite B (IPsec only)	No
TLS compression	No
Dead peer detection	No
Tunnel keepalive	No
Multiple active network interfaces	No
Per App Tunneling (requires Plus or Apex license and ASA 9.4.2 or later)	No
Full tunnel (OS may make exceptions on some traffic, such as traffic to the app store)	Yes
Split tunnel (split include)	Yes
Local LAN (split exclude)	No, defect in Windows Phone 8.1.

Category: Feature	Windows Phone
Split-DNS	Yes
Auto Reconnect / Network Roaming	Yes, if user remains on the same network and the network connection has not terminated.
VPN on-demand (triggered by destination)	Yes
VPN on-demand (triggered by application)	No
Rekey	Yes, initiated by gateway only.
IPv4 public transport	Yes
IPv6 public transport	Yes
IPv4 over IPv4 tunnel	Yes
IPv6 over IPv4 tunnel	Yes
Default domain	Yes
DNS server configuration	Yes
Private-side proxy support	Yes, limited support in Windows Phone 8.1.
Proxy Exceptions	No
Public-side proxy support	No
Pre-login banner	Yes
Post-login banner	Yes
DSCP Preservation	No
Connecting and Disconnecting:	
VPN load balancing	Yes
Backup server list	No
Optimal Gateway Selection	No
Authentication:	
SAML 2.0	No
Client Certificate Authentication	Yes
Online Certificate Status Protocol (OCSP)	No
Manual user certificate management	Yes, using Windows Phone capabilities.
Manual server certificate management	Yes
SCEP legacy enrollment Please confirm for your platform.	No
SCEP proxy enrollment Please confirm for your platform.	No
Automatic certificate selection	Yes

Category: Feature	Windows Phone
Manual certificate selection	No
Smart card support	No
Username and password	Yes
Tokens/challenge	Yes
Double authentication	Yes
Group URL (specified in server address)	Yes
Group selection (drop-down selection)	Yes
Credential prefill from user certificate	Yes
Save password	No
User interface:	
Standalone GUI	Yes, limited functions.
Native OS GUI	Yes
API / URI Handler (see below)	No
UI customization	No
UI localization	No
User preferences	Partial
Home screen widgets for one-click VPN access	No
AnyConnect specific status icon	No
Mobile Posture: (AnyConnect Identity Extensions, ACIDex)	
Serial number or unique ID check	No
OS and AnyConnect version shared with headend	Yes
URI Handling:	
Add connection entry	No
Connect to a VPN	No
Credential pre-fill on connect	No
Disconnect VPN	No
Import certificate	No
Import localization data	No
Import XML client profile	No
External (user) control of URI commands	No

Category: Feature	Windows Phone
Reporting and Troubleshooting:	
Statistics	No
Logging / Diagnostic Information (DART)	Yes, Field Medic app required.
Certifications:	
FIPS 140-2 Level 1	No

Adaptive Security Appliance Requirements

A minimum release of the ASA is required for the following features:

Note Refer to the feature matrix for your platform to verify the availability of these features in the current AnyConnect mobile release.

- You must upgrade to ASA 9.3.2 or later to use TLS 1.2.
- You must upgrade to ASA 9.0 to use the following mobile features:
  - IPsec IKEv2 VPN
  - Suite B cryptography
  - SCEP Proxy
  - Mobile Posture
- ASA Release 8.0(3) and Adaptive Security Device Manager (ASDM) 6.1(3) are the minimum releases that support AnyConnect for mobile devices.

Known Issues and Limitations

Guidelines and Limitations for AnyConnect on Windows 10 and Windows Phone 8.1

- Performance is limited due to non-support of DTLS and IPsec/IKEv2.
- VPN roaming (transitioning between WiFi and 3/4G networks) is not supported.
- AnyConnect does not receive or process the AnyConnect VPN Profile from the Secure Gateway.
- A user initiated disconnect does not cleanly disconnect from the head end. Cisco recommends you connect to ASA VPN groups with a small idle timeout to clear orphaned sessions on the ASA.
- When the mobile device user is connecting to an ASA that does not have a valid mobile license, the user will get into a login loop, where after entering credentials the authentication will restart and eventually

(after 5 attempts) send the user a generic error message: `The VPN connection has failed with error code 602.` Please contact your administrator and ensure that a valid mobile license is installed on the secure gateway

Known Compatibility Issues with AnyConnect on Windows 10 Mobile & Phone 8.1

- Due to the implementation of some Windows apps, they are not supported when a VPN is connected.

  The following Windows native apps have been tested and do not work: MSN Money, MSN Food and Drink, Health & Fitness, MSN News, Weather, MSN Sports. The following apps have been tested and operate successfully: xbox Music, xbox Games, xbox video, Podcasts

- Due to an OS defect in Windows Phone 8.1 and Windows Phone 10, certain scenarios (intermittently seen during roaming/reconnects) will result in the inability to pass traffic.

  After hitting this scenario, subsequent connection attempts will result in a 602 Error. You must reboot your device to work around this issue. We expect Microsoft to resolve this defect in Windows 10 Mobile and will work with Microsoft to expedite resolution.

- Windows Phone 8.1 does not support automatic VPN reconnects if radio coverage is interrupted.

  Specifically, automatic VPN reconnects are not supported when the phone switches from WiFi to cellular network (or vice versa) or when roaming from one WiFi network to another. Windows Phone 8.1 will attempt to automatically reconnect the VPN if radio coverage is maintained and connectivity to the VPN gateway is lost due to a temporary network disruption. In this case the operating system will attempt to reconnect the VPN when there is data to send through the tunnel. The operating system will try to reconnect the VPN either ten times, or for one minute, whichever happens first. After ten attempts or one minute the operating system will disconnect the VPN fully and user intervention will be required to reconnect.

- Windows Phone 8.1 OS imposes the following policies regarding split tunnel VPN:

  Both IPv4 and IPv6 split tunneling is supported, but if either IPv4 or IPv6 is set to tunnel all traffic then any split tunnel rules for the other address family are ignored and all IPv4 and IPv6 traffic will be tunneled.

  In order to access hosts on the network when split tunnel VPN is configured, either split DNS or a default domain name must also be specified in the group policy configuration sent from the VPN gateway. Otherwise some hosts will be inaccessible.

  - Hostnames for which DNS resolution happens in the tunnel must resolve to addresses which fall in the split tunnel routes.

  - Hostnames for which DNS resolution happens outside the tunnel must resolve to addresses which fall outside the split tunnel routes.

- Windows Phone 8.1 OS supports limited proxy configuration with the following considerations:

  Windows Phone 8.1 OS does not support proxies on any port other than TCP 80. When the VPN server configuration includes a proxy server with a port number, AnyConnect strips the port number prior to applying the configuration to the VPN channel.

  Furthermore, the Windows Phone 8.1 OS does not allow proxy exceptions to be applied to the VPN connection. Any proxy exceptions configured on the VPN server and delivered to AnyConnect will be silently ignored.

- The automatic connection feature in the VPN Profile requires additional on-demand VPN configuration be done before you can save a profile. Without the additional on-demand configuration in place, you must turn the **Connect automatically** feature Off to **Save** the profile.

- There is a known issue with certificate usage identification on Windows Phone OS version "8.10.14157.200" or earlier. Verify your OS version in **Settings** > **About**. To avoid this issue upgrade your Windows Phone if one is available in **Settings** > **Phone Update**.

Open and Resolved AnyConnect Issues

The Cisco Bug Search Tool, https://tools.cisco.com/bugsearch/, has detailed information about the following open and resolved issues in this release. A Cisco account is required to access the Bug Search Tool. If you do not have one, register at https://tools.cisco.com/RPF/register/register.do.

Open Issues in AnyConnect 4.1.03024 for Windows 10 Mobile

Identifier	Headline
CSCuv32132	[Windows Phone] Client needs to handle DPD settings from asa properly
CSCuv68051	[Windows Phone] Reconnect Issue

Resolved Issues in AnyConnect 4.1.03024 for Windows Phone

Identifier	Headline
CSCvc11637	[Windows 10 Mobile] not sync connection status between headend and anyconnect on windows phone