



Release Notes for Cisco AnyConnect Secure Mobility Client, Release 4.10.x for Android

AnyConnect for Android Release Notes

AnyConnect for Android Mobile Devices

The AnyConnect Secure Mobility Client provides remote users with secure VPN connections to the Cisco Secure Firewall ASA. 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 Cisco Secure Firewall ASA, provides release specific information for AnyConnect running on Android devices.

The AnyConnect app is available on Google Play, except for the Kindle package, which is available on Amazon.com. 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 Secure Firewall ASA headend, an Advantage or Premier license is required. Trial licenses are available: [AnyConnect Ordering Guide](#).

For the latest end-user license agreement, see [Cisco End User License Agreement, AnyConnect Secure Mobility Client](#).

For our open source licensing acknowledgments, see [Open Source Software Used in AnyConnect Secure Mobility Client for Mobile](#).

AnyConnect Android Beta Testing

Beta builds of AnyConnect are made available for pre-release testing.

To be eligible to receive these versions, opt-in to receive Beta builds using this Google Play link: <https://play.google.com/apps/testing/com.cisco.anyconnect.vpn.android.avf>

You may opt out later using this same Google Play link. After opting out, you will be required to uninstall the Beta build and reinstall the latest non-Beta version of AnyConnect.

Report issues found during beta testing promptly by sending email to Cisco at ac-mobile-feedback@cisco.com. The Cisco Technical Assistance Center (TAC) does not address issues found in Beta versions of AnyConnect.

Android Supported Devices

Full support for [AnyConnect on Android](#) is provided on devices running Android 4.0 (Ice Cream Sandwich) through the latest release of Android.

In order to use the Umbrella module for AnyConnect for Android, you must have Android 6.0 or later.

[AnyConnect for Kindle Fire HD](#) is available from Amazon for the Kindle Fire HD devices, and the New Kindle Fire. AnyConnect for Kindle is equivalent in functionality to the AnyConnect for Android package.

For all current Chromebooks, AnyConnect for Android is officially supported and strongly recommended for the optimal AnyConnect experience on ChromeOS. The native ChromeOS client is intended only for legacy Chromebooks incapable of running Android applications.

Per-App VPN is supported in managed and unmanaged environments. In a managed environment using Samsung KNOX MDM, Samsung devices running Android 4.3 or later with Samsung Knox 2.0, are required. When using Per App in an unmanaged environment, the generic Android methods are used.

For the Network Visibility Module (NVM) capabilities, Samsung devices that are running Samsung Knox 2.8 or later (including 3.3), which requires Android 7.0 or later, are required. For configuration of NVM, the AnyConnect Profile Editor from AnyConnect 4.4.3 (or later) is also required. Earlier releases do not support mobile NVM configurations.

Umbrella Module for AnyConnect for Android

In release 4.8.03645 (and later), Android offers the Cisco Umbrella module for AnyConnect for Android 6.0.1 and later devices. This roaming client for managed Android devices provides DNS-layer protection, and this protection extends to both apps and browsing covered by the work profile.

A mobile device management system (MDM) is required to deploy this client to Android devices and to push the Umbrella configuration to the Android devices. For a list of supported MDMs and other prerequisites, see [Prerequisites for Deploying the Umbrella Module for AnyConnect on Android OS](#).

Some features may have limitations in functionality:

- Per-app VPN does not work with the Umbrella Module because of OS restrictions. If remote access VPN is active, Umbrella protection will only apply to DNS traffic that is intercepted by the VPN tunnel. If remote access is configured for per-app VPN, Umbrella protection only applies to DNS traffic for the tunneled applications.
- Always-On VPN should not be used with the lockdown (Fail Close) option when using Umbrella protection because it stops internet access for the user when the VPN server is not reachable. Refer to your MDM guide to turn off the lockdown setting when Always-On is turned on.

For an explanation of the complete Umbrella feature set, refer to the [Umbrella Module for AnyConnect \(Android OS\)](#) documentation.

Licensing Requirements for Umbrella on Android

You can enable the Umbrella module for AnyConnect for Android with or without a license. Refer to [The Cisco AnyConnect Ordering Guide](#) for AnyConnect software license details. Trial Premier licenses are available for administrators at <http://www.cisco.com/go/license>. Android for AnyConnect requires Cisco Secure Firewall ASA image 8.0(4) or later. For licensing questions and evaluation licenses, contact

ac-temp-license-request@cisco.com and include a copy of **show version** from your Cisco Secure Firewall ASA.

Umbrella licenses are required for the Umbrella module on AnyConnect. Click <https://learn-umbrella.cisco.com/datasheets/cisco-umbrella-package-comparison-2> for additional information.

Prerequisites for Deploying the Umbrella Module for AnyConnect on Android OS



Note

AnyConnect monitors traffic generated from apps and browsers within the work profile created in an MDM and blocks or allows browsing accordingly. Any traffic generated outside the work profile by apps and/or browsers is not monitored.

- Mobile device management system (MDMs) for deploying the software and pushing the Umbrella configuration to the mobile devices. Current tested versions are Mobile Iron, Meraki, VMWare workspace 1 (Airwatch), or Microsoft Intune.
- Android (Samsung/Google Pixel) mobile devices with Android OS version 6.0.1 and above.
- Umbrella license to configure DNS policies, manage registered Android devices, and for reporting.
- Umbrella organization ID for enabling the feature.
- For Trusted Network Detection (TND):
 - If the Umbrella module detects a virtual appliance (VA) with HTTPS enabled, it deactivates itself; however, if the VA does not support HTTPS, the Umbrella module continues.
 - All VA FQDN in `umbrella_va_fqdns` must be enabled.

New Features

New Features in AnyConnect 4.10.05096 for Android Mobile Releases

This version of AnyConnect for Android resolves the bug listed in [Resolved Issues in AnyConnect 4.10.05096 for Android, on page 13](#).

New Features in AnyConnect 4.10.05082 for Android Mobile Releases

This version of AnyConnect for Android adds support for PAC proxy with Android 11+ and resolves the bug listed in [Resolved Issues in AnyConnect 4.10.05082 for Android, on page 13](#).

New Features in AnyConnect 4.10.03113 for Android Mobile Releases

This version of AnyConnect for Android includes the following feature and resolves the bug listed in [Resolved Issues in AnyConnect 4.10.03113 for Android, on page 13](#):

Support for an AnyConnect VPN SAML External Browser —As an optional add-on, you can choose the external browser package (`external-sso-4.10.04065-webdeploy-k9.pkg`) for AnyConnect VPN SAML External Browser use. When you use SAML as the primary authentication method for the AnyConnect VPN connection

profile, you can choose for the AnyConnect client to use a local browser, instead of the AnyConnect embedded browser, when performing web authentication. With this feature, AnyConnect supports WebAuthN and any other SAML-based web authentication options, such as Single Sign On (SSO), biometric authentication, or other enhanced methods that are unavailable with embedded browser. For SAML external browser use, you must perform configuration using ASA release 9.17.1 (CLI), ASDM 7.17.1, or FDM 7.1 and later.



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- Note** For macOS, external browser SAML requires version 10.15 or later. Two known issues exist with external browser SAML on macOS:
- CSCvz51167—Chrome browser crashes after external browser authentication on macOS. This issue exists only in 4.10.04065 and is fixed in upcoming releases.
 - CSCwa38261—External browser SAML is not supported for App Store version of AnyConnect on M1 Mac.

Refer to the following related documentation to set up this feature:

- *ASA Command Reference*
[anyconnect external-browser-pkg](#)
[external-browser](#)
[show webvpn anyconnect external-browser-pkg](#)
- *Cisco ASA Series VPN ASDM Configuration Guide, 7.17.1*
[AnyConnect Connection Profile, Basic Attributes](#)
[AnyConnect VPN External Browser SAML Package](#)
- *Cisco Firepower Threat Defense Configuration Guide for Firepower Device Manager, Release 7.1*
[Configure AAA for a Connection Profile](#)
- *Cisco Firepower Management Center Device Configuration Guide, 7.1*
[Configure AAA Settings for Remote Access VPN](#)

New Features in AnyConnect 4.10.02094 for Android Mobile Releases

This version of AnyConnect for Android resolves the bug listed in [Resolved Issues in AnyConnect 4.10.02094 for Android, on page 13](#).

New Features in AnyConnect 4.10.02080 for Android Mobile Releases

This version of AnyConnect for Android resolves the bug listed in [Resolved Issues in AnyConnect 4.10.02080 for Android, on page 13](#).

New Features in AnyConnect 4.10.01095 for Android Mobile Releases

This version of AnyConnect for Android adds support for Yubikey and resolves the bugs/ enhancement requests listed in [Resolved Issues in AnyConnect 4.10.01095 for Android, on page 14](#). You can use Yubikey

as an external certificate for VPN certificate authentication. To enable the Yubikey feature, add the following into the Managed Configuration of the MDM VPN profile:

vpn_connection_yubikey_cert_slot with valid slot values of 9a, 9c, 9d, or 9e.

New Features in AnyConnect 4.10.00102 for Android Mobile Releases

This version of AnyConnect for Android adds support for CiscoSSL changes: enable EMS for only TLS, and disable EMS for DTLS.

Known Issues with Google on Android

Because of a limitation from Google on Android OS, the app download may fail in the Google Play store after enabling the Umbrella AnyConnect module. To avoid this, download the apps before enabling the Umbrella module. Google has fixed this behavior in Android OS "Q." For more information, see the [Google issue tracker](#).

Android AnyConnect Feature Matrix

The following table indicates the remote access features that are supported by AnyConnect on Android:

| Category: Feature | Android VPN |
|---|-----------------------------------|
| Deployment and Configuration: | |
| Install or upgrade from application store. | Yes |
| Cisco VPN Profile support (manual import) | Yes |
| Cisco VPN Profile support (import on connect) | Yes |
| MDM configured connection entries | Yes |
| User-configured connection entries | Yes |
| Tunneling: | |
| TLS | Yes |
| Datagram TLS (DTLS) | Yes |
| IPsec IKEv2 NAT-T | Yes |
| IKEv2 - raw ESP | Yes |
| Suite B (IPsec only) | Yes |
| TLS compression | Yes |
| Dead peer detection | Yes |
| Tunnel keepalive | Yes |
| Multiple active network interfaces | No |
| Per-App Tunneling | Yes, Android 5.0+ or Samsung Knox |

| Category: Feature | Android VPN |
|---|---|
| Per-App Tunneling (Disallowed Apps Mode) | Yes |
| 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 |
| Split-DNS | Yes, works with split include |
| Auto Reconnect / Network Roaming | Yes, regardless of the Auto Reconnect profile specification, AnyConnect Mobile always attempts to maintain the VPN as users move between 3G and WiFi networks |
| VPN on-demand (triggered by destination) | No |
| VPN on-demand (triggered by application) | No |
| Rekey | Yes |
| IPv4 public transport | Yes |
| IPv6 public transport | Yes, requires Android 5.0 or later |
| IPv4 over IPv4 tunnel | Yes |
| IPv4 over IPv6 tunnel | Yes |
| IPv6 over IPv4 tunnel | Yes |
| IPv6 over IPv6 tunnel | Yes |
| Default domain | Yes |
| DNS server configuration | Yes |
| Private-side proxy support | Direct proxy support on Android 10+. PAC proxy support on Android 11+. |
| Proxy Exceptions | No |
| Public-side proxy support | No |
| Pre-login banner | Yes |
| Post-login banner | Yes |
| DSCP Preservation | Yes |
| Connecting and Disconnecting: | |
| VPN load balancing | Yes |
| Backup server list | Yes |
| Optimal Gateway Selection | No |
| Authentication: | |
| Touch ID | No |

| Category: Feature | Android VPN |
|---|--|
| SAML 2.0 | Yes |
| Client Certificate Authentication | Yes |
| Online Certificate Status Protocol (OCSP) | Yes |
| Manual user certificate management | Yes |
| Manual server certificate management | Yes |
| SCEP legacy enrollment Please confirm for your platform. | Yes |
| SCEP proxy enrollment Please confirm for your platform. | Yes |
| Automatic certificate selection | Yes |
| Manual certificate selection | Yes |
| 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 |
| Native OS GUI | No |
| API / URI Handler (see below) | Yes |
| UI customization | No |
| UI localization | Yes, app contains pre-packaged languages |
| User preferences | Yes |
| Home screen widgets for one-click VPN access | Yes |
| AnyConnect specific status icon | Optional |
| Mobile Posture: (AnyConnect Identity Extensions, ACIDex) | |
| Serial number or unique ID check | Yes |
| OS and AnyConnect version shared with headend | Yes |
| AnyConnect Network Visibility Module support | Yes, with specific Samsung Knox and MDM requirements |
| URI Handling: | |
| Add connection entry | Yes |

| Category: Feature | Android VPN |
|---|-------------|
| Connect to a VPN | Yes |
| Credential pre-fill on connect | Yes |
| Disconnect VPN | Yes |
| Import certificate | Yes |
| Import localization data | Yes |
| Import XML client profile | Yes |
| External (user) control of URI commands | Yes |
| Reporting and Troubleshooting: | |
| Statistics | Yes |
| Logging / Diagnostic Information (DART) | Yes |
| Certifications: | |
| FIPS 140-2 Level 1 | Yes |

Cisco Secure Firewall ASA Requirements

A minimum release of the Cisco Secure Firewall 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 9.7.1.24, 9.8.2.28, 9.9.2.1 or later to use the SAML authentication feature. Make sure that both the client and server versions are up-to-date.
- You must upgrade to ASA 9.3.2 or later to use TLS 1.2.
- You must upgrade to ASA 9.3.2 or later to use Per-App VPN tunneling mode.
- You must upgrade to ASA 9.0 to use the following mobile features:
 - IPsec IKEv2 VPN
 - Suite B cryptography
 - SCEP Proxy
 - Mobile Posture
- Cisco Secure Firewall ASA Release 8.0(3) and Adaptive Security Device Manager (ASDM) 6.1(3) are the minimum releases that support AnyConnect for mobile devices.

Other Cisco Headend Support

AnyConnect SSL connectivity is supported on Cisco IOS 15.3(3)M+/15.2(4)M+.

AnyConnect IKEv2 connectivity is supported on Cisco ISR g2 15.2(4)M+.

AnyConnect SSL and IKEv2 is supported on Cisco Secure Firewall Threat Defense, release 6.2.1 and later.

Guidelines and Limitations for AnyConnect on Android

- The Secure Firewall ASA does not provide distributions and updates for AnyConnect for Android. They are available on Google Play. The APK (package) file for the latest version is also posted on Cisco.com.
- AnyConnect for Android supports only the Network Visibility Module and Umbrella; it does not support any other AnyConnect modules.
- The Android device supports no more than one AnyConnect profile, which is the last one received from a headend. However, a profile can consist of multiple connection entries.
- If users attempt to install AnyConnect on devices that are not supported, they receive the pop-up message `Installation Error: Unknown reason -8`. This message is generated by the Android OS.
- With users who have AnyConnect in a widget on their home screen, the AnyConnect services are automatically started (but not connected) regardless of the "Launch at startup" preference.
- AnyConnect for Android requires UTF-8 character encoding for extended ASCII characters when using pre-fill from client certificates. The client certificate must be in UTF-8 if you want to use prefill, per the instructions in [KB-890772](#) and [KB-888180](#).
- AnyConnect blocks voice calls if it is sending or receiving VPN traffic over an EDGE connection per the inherent nature of EDGE and other early radio technology.
- Some known file compression utilities do not successfully decompress log bundles packaged with the use of the AnyConnect Send Log button. As a workaround, use the native utilities on Windows and macOS to decompress AnyConnect log files.
- DHE Incompatibility—With the introduction of DHE cipher support in AnyConnect, incompatibility issues result in Cisco Secure Firewall ASA versions before ASA 9.2. If you are using DHE ciphers with Secure Firewall ASA releases earlier than 9.2, you must disable DHE ciphers on those Secure Firewall ASA versions.

Android on Google Play Store

Cisco highly recommends that all users run the current version of our Android release, which is available on the Google play store. Additionally, an .apk version is available on Cisco.com for the current version only. In the unlikely event that the Google play store is unavailable, administrators who have access to the AnyConnect software download page can get this version.

Known Compatibility Issues

- If you are experiencing connectivity issues with the VPN tunnel on Android 10, try disabling Android 10 Private DNS functionality.
- IPv6 on public and private interfaces.

IPv6 is supported on both private and public transports using AnyConnect 4.05015 (and later), on Android 5 (and later). With this combination the following is now allowed: IPv4 over an IPv6 tunnel, IPv6 over an IPv6 tunnel.

This is in addition to the previously allowed tunnel configurations on earlier AnyConnect and Android releases: IPv4 over an IPv4 tunnel, and IPv6 over an IPv4 tunnel.



Note Due to Google issue [65572](#), IPv6 over IPv4 does not work on Android 4.4. You must use Android 5 or later.

- Battery saver and AnyConnect:
 - Android 5.0 introduced battery saver capabilities that block background network connectivity on your device. When battery saver is enabled, AnyConnect will transition to the Paused state if it is in the background. To work around this on Android 5.0, users may turn off battery saver via the device settings: Settings -> Battery -> Battery saver or from the notification bar.
 - In Android 6.0+, when AnyConnect transitions to the Paused state as a result of battery saver, you see a popup with the option to make AnyConnect part of the allowed list from battery saver mode. Making AnyConnect part of the allowed list provides a battery savings without impacting its ability to run in the background.
 - Once AnyConnect is paused due to the batter saver, a manual reconnect is necessary to bring AnyConnect out of the Paused state, regardless of your action to turn off battery saver or to add AnyConnect to the allowed list.
- Split DNS does not work on any Android 4.4 device, and also does not work on Samsung 5.x Android devices. For Samsung devices, the only workaround is to connect to a group with split DNS disabled. On other devices you must upgrade to Android 5.x to receive the fix for this problem.

This is due to a known issue that is present in Android 4.4 ([Issue #64819](#)), fixed in Android 5.x, but not incorporated into Samsung 5.x android devices.
- Due to a bug in Android 5.x ([Google Issue #85758](#), Cisco Issue # CSCus38925), if the AnyConnect app is closed from the recent apps screen, it may not operate properly. To restore proper operation, terminate AnyConnect in **Settings** and then restart it.
- On Samsung mobile devices the **Settings > Wi-Fi > Smart network switch** allows switching from Wifi to LTE to maintain a stable Internet connection (when the WiFi connection is not optimum). This also results in a pause and reconnect of the active VPN tunnel. Cisco recommends turning this off, since it may result in continuous reconnects.
- On Android 5.0 (Lollipop), which supports multiple active users, the VPN connection tunnels data for a single user only, not for all users on the device. Background data flow may be occurring in the clear.

- Due to a bug in Android 4.3.1([Google Issue #62073](#)), users using the AnyConnect ICS+ package cannot enter non-fully qualified domain names. For example, users cannot type "internalhost," they must type "internalhost.company.com."
- The AT&T firmware updates on HTC One to Android 4.3 (software version: 3.17.502.3) do not support "HTC AnyConnect." Customers must uninstall "HTC AnyConnect" and install "AnyConnect ICS+." (HTC AnyConnect will work on the international edition, with software version of 3.22.1540.1). Check your software version on your device at **Settings > About > Software information > Software number**.
- We are pleased to report that [Google Issue #70916](#), VPN connections will fail to connect if the administrator has set the MTU for Android tunnels lower than 1280, has been resolved in Android 5.0 (Lollipop). The following problem information is provided for reference:

Due to a regression in Android 4.4.3,([Google Issue #70916](#), Cisco CSCup24172), VPN connections will fail to connect if the administrator has set the MTU for Android tunnels lower than 1280. This issue has been reported to Google and will require a new version of the OS to correct the regression introduced in Android 4.4.3. To workaround this problem, ensure that the head-end administrator has not configured the tunnel MTU to be lower than 1280.

When encountered, the message displayed to the end user is: System configuration settings could not be applied. A VPN connection will not be established, and AnyConnect debug logs will report:

```
E/vpnandroid( 2419): IPCInteractionThread: NCSS: General Exception occurred, telling
client
E/vpnandroid( 2419): java.lang.IllegalStateException: command '181 interface fwmark
rule add tun0'
failed with '400 181 Failed to add fwmark rule (No such process) '
E/vpnandroid( 2419): at android.os.Parcel.readException(Parcel.java:1473)
E/vpnandroid( 2419): at android.os.Parcel.readException(Parcel.java:1419)
E/vpnandroid( 2419): at
com.cisco.android.nchs.aidl.IICSSupportService$Stub$Proxy.establish
(IICSSupportService.java:330)
E/vpnandroid( 2419): at com.cisco.android.nchs.support.VpnBuilderWrapper.establish
(VpnBuilderWrapper.java:137)
E/vpnandroid( 2419): at com.cisco.android.nchs.support.NCSSIPCServer.callServiceMethod
(NCSSIPCServer.java:233)
E/vpnandroid( 2419): at
com.cisco.android.nchs.ipc.IPCInteractionThread.handleClientInteraction
(IPCInteractionThread.java:230)
E/vpnandroid( 2419): at com.cisco.android.nchs.ipc.IPCInteractionThread.run
(IPCInteractionThread.java:90)
E/acvpnagent( 2450): Function: ApplyVpnConfiguration
File: NcssHelper.cpp Line: 740 failed to establish VPN
E/acvpnagent( 2450): Function: PluginResult AndroidSNAKSystem::configDeviceForICS()
File: AndroidSNAKSystem.cpp Line: 665 failed to apply vpn configuration
E/acvpnagent( 2450): Function: virtual PluginResult
AndroidSNAKSystem::ApplyConfiguration()
File: AndroidSNAKSystem.cpp Line: 543 Failed to Configure System for VPN.
```

- We are pleased to report that Android 4.4 (KitKat) bug [Google Issue #61948](#) (AnyConnect users will experience High Packet Loss over their VPN connection /users will experience timeouts) has been resolved in Google's release of Android 4.4.1 which Google has begun distributing to some devices via Software Update. The following problem information is provided for reference:

Due to a bug in Android 4.4 ([Issue #61948](#), also see the [Cisco Support Update](#)), AnyConnect users will experience High Packet Loss over their VPN connection. This has been seen on the Google Nexus 5 running Android 4.4 with AnyConnect ICS+. Users will experience timeouts when attempting to access

certain network resources. Also, in the ASA logs, a syslog message will appear with text similar to "Transmitting large packet 1420 (threshold 1405)."

Until Google produces a fix for Android 4.4, VPN administrators may temporarily reduce the maximum segment size for TCP connections on the Cisco Secure Firewall ASA by configuring the following sysopt connection tcpmss <mss size>. The default for this parameter is 1380 bytes. Reduce this value by the difference between the values seen in the ASA logs. In the above example, the difference is 15 bytes; the value should thus be no more than 1365. Reducing this value will negatively impact performance for connected VPN users where large packets are transmitted.

- AnyConnect for Android may have connectivity issues when connecting to a mobile network using the IPv6 transition mechanism known as 464xlat. Known affected devices include the Samsung Galaxy Note III LTE connecting to the T-Mobile US network. This device defaults to an IPv6 only mobile network connection. Attempting a connection may result in a loss of mobile connectivity until the device is rebooted.

To prevent this problem, use the AnyConnect ICS+ app, and change your device settings to obtain IPv4 network connectivity or connect using a Wi-Fi network. For the Samsung Galaxy Note III LTE connecting to the T-Mobile US network, follow the [instructions provided by T-Mobile](#) to set the Access Point Name (APN) on your device, making sure APN Protocol is set to IPv4.

- The AnyConnect ICS+ package may have issues when a private IP address range within the VPN overlaps with the range of the outside interface of the client device. When this route overlap occurs, the user may be able to successfully connect to the VPN but then be unable to actually access anything. This issue has been seen on cellular networks which use NAT (Network Address Translation) and assign addresses within the 10.0.0.0 - 10.255.255.255 range, and is due to AnyConnect having limited control of routes in the Android VPN framework. The vendor specific Android packages have full routing control and may work better in such a scenario.
- An Asus tablet running Android 4.0 (ICS) may be missing the tun driver. This causes AVF AnyConnect to fail.
- Android security rules prevent the device from sending and receiving multimedia messaging service (MMS) messages while a VPN connection is up. Most devices and service providers display a notification if you try to send an MMS message while the VPN connection is up. Android permits sending and receiving of messages when the VPN is not connected.
- Due to [Google Issue 41037](#), when pasting text from the clipboard, a space is inserted in front of the text. In AnyConnect, when copying text such as a one time password, the user has to delete this erroneous white space.

Open and Resolved AnyConnect Issues

The [Cisco Bug Search Tool](#) 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://Cisco.com>.

Note that some cross platform bugs defined in the desktop release notes (https://www.cisco.com/c/en/us/td/docs/security/vpn_client/anyconnect/anyconnect410/release/notes/release-notes-anyconnect-4-10.html) may apply to the mobile releases. Once a bug has been reported as fixed, it becomes available on all operating system platforms (including mobile operating systems) with a higher AnyConnect release number. Those bugs with *vpn*, *core*, *nvm*, and similar components that apply across platform will not be duplicated in the subsequent mobile releases. For example, a *vpn* component bug resolved in desktop release 4.9.00086 will

not be listed again in iOS release 4.9.00512 because the iOS version is greater than the release version where the bug was reported as fixed.

Resolved Issues in AnyConnect 4.10.05096 for Android

| Identifier | Headline |
|------------|--|
| CSCwb47154 | VPN failing to connect over certain 5G networks (specific to CLAT46) |

Resolved Issues in AnyConnect 4.10.05082 for Android

| Identifier | Headline |
|------------|--|
| CSCwa91811 | UAC client is unable to resolve very long domain names |

Resolved Issues in AnyConnect 4.10.03113 for Android

| Identifier | Headline |
|------------|---|
| CSCvz47805 | NVM component of Android AnyConnect app presents misleading activity messages |
| CSCvz56901 | UAC: crash after QR scan of reg encoded URL with missing characters |

Resolved Issues in AnyConnect 4.10.02094 for Android

| Identifier | Headline |
|------------|--|
| CSCvz43376 | App crashes when it is upgraded from older version (4.10.01095) to latest (4.10.02080) |

Resolved Issues in AnyConnect 4.10.02080 for Android

| Identifier | Headline |
|------------|--|
| CSCvy09188 | Unmanaged per-app configuration failing on Android 11+ non-Samsung devices |

Resolved Issues in AnyConnect 4.10.01095 for Android

| Identifier | Headline |
|------------|--|
| CSCvx78098 | [ENH] PerApp AnyConnect should track app install and automatically reconnect |
| CSCvy43467 | Issue with always-on feature on Android 9 |
| CSCvy66608 | AnyConnect client certificate import may fail on Samsung Android 11 |

AnyConnect Mobile Related Documentation

For more information refer to the following documentation:

- [AnyConnect Release Notes](#)
- [AnyConnect Administrator Guides](#)
- [Cisco Secure Firewall ASA Documentation Landing Page](#)

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