

FortiClient v4.0 MR1 for Android v4.0 User Guide



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Change Log

Date	Change Description
2012-08-28	Initial release.

Introduction

The purpose of this document is to provide instructions on how to configure an IPsec VPN or SSL-VPN connection to your network from your Android device.

Product Integration & Support

General support information

FortiOS support

FortiClient v4.0 MR1 for Android supports FortiOS v4.0 MR3 or later.

Licensing

VPN connections are free and no FortiClient license is required when connecting to a FortiGate unit running FortiOS v4.0 MR3 Patch Release 4 or later.

Supported operating system

FortiClient v4.0 MR1 for Android supports Android OS v4.0.4 or later.

Install FortiClient v4.0 MR1 for Android

You can download the FortiClient v4.0 MR1 for Android application from the Google Play application or at https://play.google.com/store.

Online help

You can access the FortiClient v4.1 for Android v4.0 User Guide from the FortiClient application from the Options menu while the application is open. Touch the icon on the right side of the toolbar to open the Options menu. Touch Online Help to access this document.

This document is also available at

http://docs.fortinet.com/fclient/android/forticlient-for-android-400-quickstart.pdf.

Figure 1: Options menu









Open the Application

Open the application

Touch the FortiClient v4.0 MR1 for Android application icon on the Home screen or touch the application's icon on the Launcher. Read the Product License Agreement, and select *Agree* to continue.

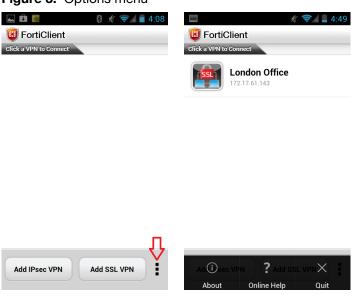
Figure 2: FortiClient launch screen and Product License Agreement



Quit the application

Touch the icon on the right side of the tool bar to launch the Options menu, touch Quit.

Figure 3: Options menu



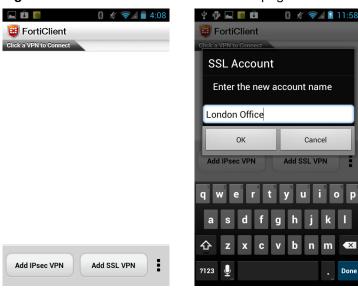
SSL-VPN

Create an SSL-VPN connection

To create a new SSL-VPN connection see the following steps.

- 1. Touch Add SSL-VPN from the toolbar at the bottom of the page.
- 2. Enter the new account name for the SSL-VPN connection and touch OK.

Figure 4: Add SSL-VPN and SSL Account pages



3. Touch Server, enter the server IP address and touch OK.

Figure 5: Server setting page



4. Touch *Port*, enter the port number, and touch *OK*. The default port is 10443.

Figure 6: Port setting page



- 5. Touch User, enter a username, and touch OK.
- **6.** Touch *Password*, enter a password, and touch *OK*. There is no maximum value for the password length. The password can consist of alpha, numeric and special characters.

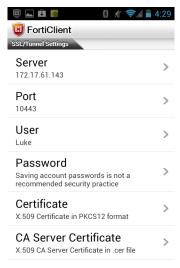


The username and password configured on the client must match the username and password configured on the FortiGate. Contact your network administrator for the correct setting.

Figure 7: Username, password and main settings pages







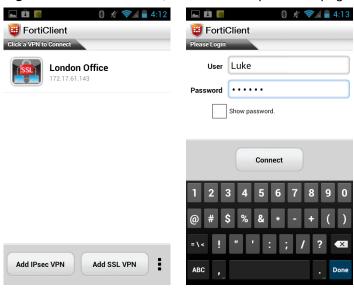
Connect to the VPN

SSL-VPN tunnel mode uses X.509 Certificates (PKCS12 format) for authentication. Certificate settings need to be configured if authentication requires the client certificate, otherwise leave the certificate settings as their default value. For more information see Client and Server CA Certificates.

To connect to the SSL-VPN see the following steps.

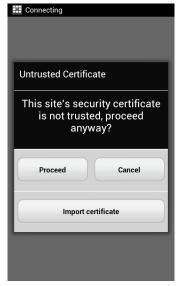
- 1. Touch an available VPN to connect.
- 2. Enter your username and password and touch Connect.

Figure 8: VPN connection, username and password pages



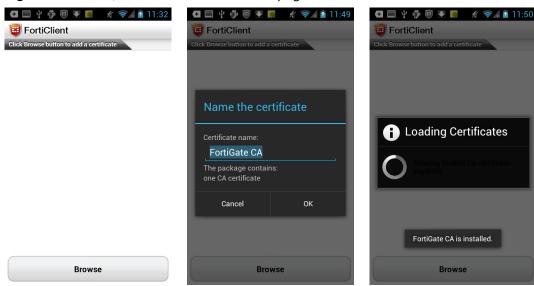
3. You will receive an *Untrusted Certificate* warning message, and you will have the option to *Proceed*, *Cancel*, or *Import certificate*.

Figure 9: Untrusted Certificate warning message



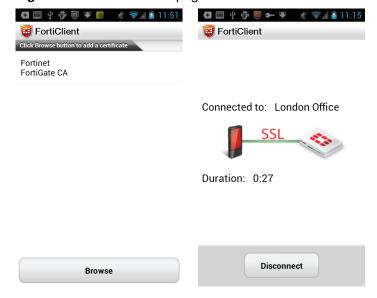
4. Touch *Import Certificate*, browse for the certificate file, edit the name (if required), and touch *OK* to load and install the certificate.

Figure 10:Browse, locate and load certificate pages



- **5.** The certificate is now installed on the device. Use the device back button to return to the connection screen.
- 6. Touch an available VPN to connect.

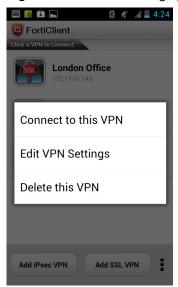
Figure 11:VPn connection pages



Edit VPN settings or delete a VPN configuration

To edit VPN settings or delete an existing VPN configuration, touch & hold the VPN on the connection page.

Figure 12:Edit VPN settings page



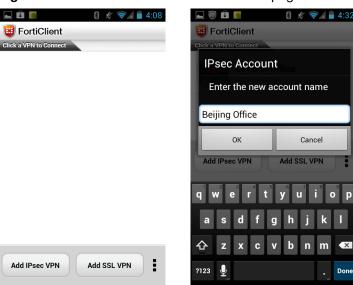
IPsec VPN

Create an IPsec VPN connection

To create a new IPsec VPN connection, see the following steps.

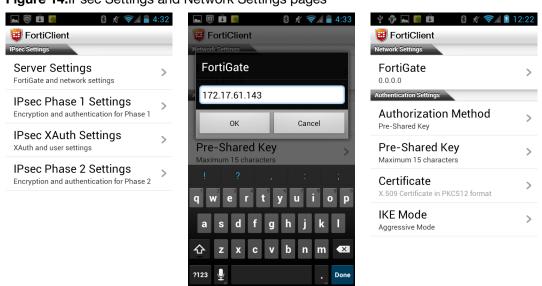
- 1. Touch Add IPsec VPN from the toolbar at the bottom of the page.
- 2. Enter the new account name for the IPsec VPN connection and touch OK.

Figure 13:Add IPsec VPN and IPsec account pages



3. Touch Server Settings, under Network Settings, touch FortiGate, enter the server IP address and touch OK.

Figure 14:IPsec Settings and Network Settings pages



4. Under Authentication Settings, touch Authorization Method and touch either Pre-shared key or X.509 certificate.

5. For pre-shared key, touch Pre-shared Key to enter the pre-shared key value.

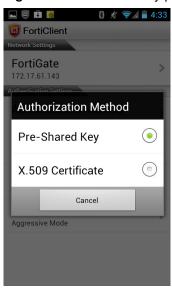
The simplest way to authenticate with the FortiGate unit is by means of a pre-shared key. This is less secure than using certificates, especially if it is used alone, without requiring peer IDs or extended authentication (XAuth).

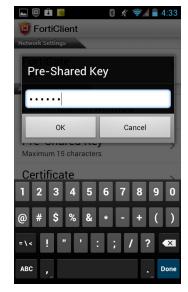
The pre-shared key must contain at least 6 printable characters. For optimum protection against currently known attacks, the key must consist of a minimum of 16 randomly chosen alphanumeric characters.



The pre-shared key configured on the client must match the pre-shared configured on the FortiGate. Contact your network administrator for the correct setting.

Figure 15:Pre-Shared Key page





6. For X.509 certificate, touch *Certificate*, and then browse for the certificate file on your device.

To authenticate withe the FortiGate unit using digital certificates, you must have the required certificates installed on the android device (peer) and the FortiGate unit (server).



Contact your network administrator for the correct X.509 certificate file.

Figure 16:Load certificate page





7. Touch IKE Mode, touch either Aggressive Mode or Main Mode (ID protection).

In Aggressive Mode, the phase 1 parameters are exchanged in single message with authentication information that is not encrypted.

In Main Mode, the phase 1 parameters are exchanged in multiple rounds with encrypted authentication information.



The IKE Mode selected on the client must match the mode selected on the server. Contact your network administrator for the correct setting.

- **8.** Use the device back button to return to the IPsec Settings page.
- **9.** Touch *IPsec Phase 1 Settings* to view or edit the phase 1 proposal encryption and authentication settings. You can choose to use the default settings.

Select the encryption and authentication algorithms that will be used to generate keys for protecting negotiations. You can select any of the following symmetric-key algorithms:

- DES-Digital Encryption Standard, a 64-bit block algorithm that uses a 56-bit key.
- 3DES-Triple-DES, in which plain text is encrypted three times by three keys.
- AES128-A 128-bit block algorithm that uses a 128-bit key.

You can select one of the following message digests to check the authenticity of messages during phase 1 negotiations:

- MD5-Message Digest 5, the hash algorithm developed by RSA Data Security.
- SHA1-Secure Hash Algorithm 1, which produces a 160-bit message digest.

Select one or more Diffie-Hellman groups from DH group 1, 2, 5, and 14. When using aggressive mode, DH groups cannot be negotiated.



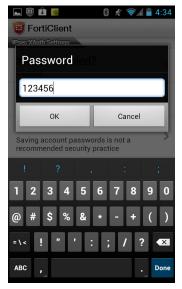
Contact your network administrator for the correct phase 1 encryption and authentication algorithms, and DH group.

10. Touch IPsec XAuth Settings to view or edit the XAuth and user settings. XAuth is enabled by default. Touch User to enter the FortiGate IPsec username. Touch Password to enter the password value. To use XAuth, you must first configure the user's credentials on your FortiGate, and external RADIUS or LDAP server.

Extended authentication (XAuth) increases security by requiring the remote dialup client user to authenticate in a separate exchange at the end of phase 1. XAuth draws on existing FortiGate user group definitions and uses established authentication mechanisms such as PAP, CHAP, RADIUS and LDAP to authenticate dialup clients.

Figure 17:XAuth username and password pages





11.Touch *IPsec Phase 2 Settings* to view or edit the phase 2 encryption and authentication settings. You can choose to use the default settings.

Select the encryption and authentication algorithms that will be used to generate keys for protecting negotiations. You can select any of the following symmetric-key algorithms:

- DES-Digital Encryption Standard, a 64-bit block algorithm that uses a 56-bit key.
- 3DES-Triple-DES, in which plain text is encrypted three times by three keys.
- AES128-A 128-bit block algorithm that uses a 128-bit key.

You can select one of the following message digests to check the authenticity of messages during phase 1 negotiations:

- MD5-Message Digest 5, the hash algorithm developed by RSA Data Security.
- SHA1-Secure Hash Algorithm 1, which produces a 160-bit message digest.

Select one or more Diffie-Hellman groups from DH group 1, 2, 5, and 14. When using aggressive mode, DH groups cannot be negotiated.



Contact your network administrator for the correct phase 2 encryption and authentication algorithms, and DH group.

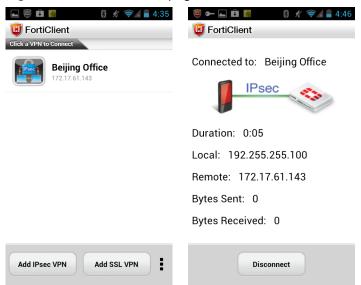
12. Use the device back button to return to the connection screen.

Connect to the IPsec VPN

To connect to the IPsec VPN see the following steps.

- 1. Touch an available VPN to connect.
- **2.** Enter the username and password, and touch *Connect*.

Figure 18:VPN connection pages



Edit VPN settings or delete a VPN configuration

To edit VPN settings or delete an existing VPN configuration, touch & hold the VPN on the connection page.

Figure 19:Edit VPN settings page



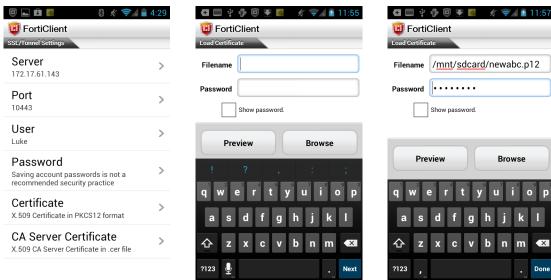
Client and Server CA Certificates

Client certificate

If the SSL-VPN connection requires a client certificate, the certificate needs to be imported to the device via the FortiClient application. The certificate needs to be in a PKCS12 format, and downloaded to the Android device first.

Select the > arrow next to the certificate from the SSL/Tunnel Settings screen. Select Browse, and locate the PKCS12 certificate from device storage, select Done to accept the file.

Figure 20:SSL/Tunnel Settings and Load Certificate pages



The certificate path will be visible under Filename, enter the Password, and select Preview. The certificate field is populated with the certificate name. Select Save to load the certificate.

Figure 21:Preview Certificate page

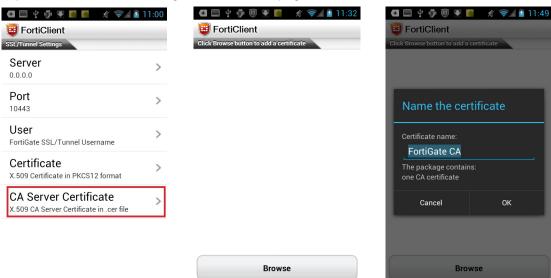


CA certificate

If the server certificate is not signed by a trusted root certificate authority, then the CA certificate needs to be imported to the device via the FortiClient application.

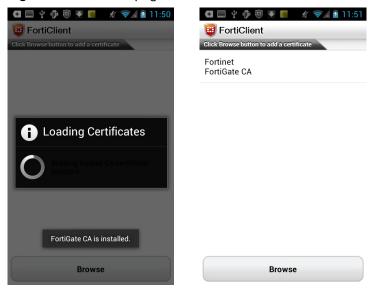
Select the > arrow next to the certificate from the SSL/Tunnel Settings screen. Select Browse, and locate the .cer format certificate from device storage. Select the certificate file, edit the name (if required), and select OK to load and install the certificate.

Figure 22:SSL/Tunnel Settings and certificate pages



Once the file is successfully loaded, the CA certificate summary is displayed.

Figure 23:Certificate pages



The CA certificate can also be imported at the Untrusted Certificate warning screen, see SSL-VPN.

Figure 24:Untrusted Certificate page



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