



ViPNet Client for Android 2.2

Configuration Guide



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Introduction

About This Document

This document is designed for ViPNet network users who intend to install ViPNet Client for Android on devices running the Android operating system (see [Android OS](#) on page 24).

This document contains the information about the purpose, setting and the installation procedure of the ViPNet Client for Android application, as well as recommendations for how to use it.

Document Conventions

This document concerns the following conventions:

Table 1. Conventions for notes




Icon	Description
	Warning: Indicates an obligatory action or information which may be critical for continuing user operations.
	Note: Indicates a non-obligatory, but desirable action or information, which may be helpful for users.
	Tip: Contains additional information.

Table 2. Conventions for highlighted information

Icon	Description
Name	The name of an interface element. For instance, the name of a window, a box, a button or a key.
Key+Key	Shortcut keys. To use the shortcut keys, press and hold the first key and press other keys.
Menu > Submenu > Command	A hierarchical sequence of elements. For instance, menu items or sections in the navigation pane.
Code	A file name, path, text file (code) fragment or a command executed from the command line.

About This Application

The ViPNet Client for Android application is designed to protect IP traffic on mobile devices with Android operating system, also referred to as Android devices (see [Supported Android Devices](#) on page 6), by encrypting and filtering IP packets.

Using this application you can establish a protected connection with ViPNet hosts or with hosts, whose traffic is tunneled through ViPNet coordinators, and obtain access to resources on these hosts: intranet portal, email, VoIP, various servers and other corporate services.

You can use ViPNet Client for Android together with ViPNet Connect. ViPNet Connect allows you to communicate with other ViPNet users (voice calls, chat) over the protected channel.

You do not need superuser rights to install the ViPNet Client for Android. The application is easy to use and requires no special skills.

System Requirements

Corporate Network Requirements

Android devices with the ViPNet Client for Android application installed function as clients in a ViPNet virtual private network. You can use this application if, in your organization, there is a ViPNet network managed with [ViPNet Administrator](#) (on page 25) version 3.2.9 or above, or [ViPNet Network Manager](#) (on page 26) version 4.2 or above.

Supported Android Devices

ViPNet Client for Android is compatible with the following devices:

- Samsung GALAXY Note 3 Neo LTE (SM-7505);
- Samsung GALAXY S5;
- Samsung GALAXY S6;
- Samsung GALAXY S6 Edge;
- Samsung GALAXY Tab S 8.4 LTE (SM-T705);
- YotaPhone 2.

ViPNet Client for Android can be installed on most devices running Android OS version 4.1 or later powered by ARM or x86 processors, though correct operation on unsupported devices cannot be guaranteed. To make an inquiry about support for a device that is not on the list, contact Infotecs (see [Feedback](#) on page 10).

What's New in Version 2.2

This section contains a brief description of changes made to version 2.2 and its new features compared to version 2.1. You can find information about version 2.1 of the application in the [Version History](#) (on page 23) appendix.

- **Centralized updating of keys and host links**

ViPNet Client for Android now allows you to update keys and host links centrally. For example, if the ViPNet network administrator has changed some host settings or created new links between hosts, he or she sends keys and host links to network hosts.

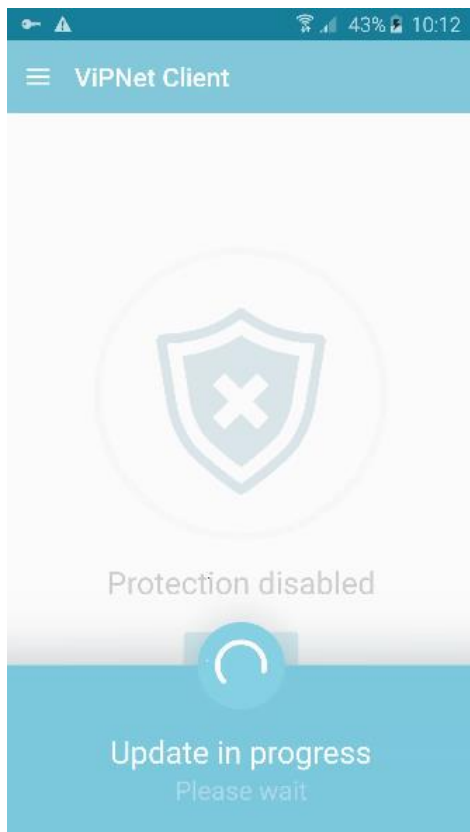


Figure 1. Updating keys and host links

- **The internal functionality of the application is improved**

Minor errors detected in version 2.1 have been fixed.

- **Supported Android Devices**

The list of devices supported in version 2.2 has been changed.

Protected ViPNet Network

You can use the ViPNet Client for Android application in a protected ViPNet network based on ViPNet software products.

The ViPNet network is a virtual protected network, which can be deployed over local or global networks of any structure. The ViPNet technology protects communication between network hosts (see [ViPNet host](#) on page 25).

Information transferred over a ViPNet network is protected with special ViPNet software, which encrypts traffic between hosts of the ViPNet network. For traffic encryption and decryption symmetric keys (see [Symmetric key](#) on page 25) are used, which are generated and distributed centrally.

You can manage the protected ViPNet network with the [ViPNet Administrator](#) (on page 25) software suite or the [ViPNet Network Manager](#) (on page 26) program. By means of these programs you can create and configure hosts on your ViPNet network, manage links between them, create and centrally distribute their key sets (see [Key set](#) on page 24) and centrally upgrade ViPNet hosts' software, keys and host links.

There are two types of ViPNet hosts:

- [Client \(ViPNet client\)](#) (on page 24) is a ViPNet users' workstation. ViPNet Client for Android is a client.
- [Coordinator \(ViPNet coordinator\)](#) (on page 24) is a ViPNet network server.

A ViPNet network may also involve local network computers that do not have ViPNet software installed, but that are protected by the tunneling technology (see [Tunneling](#) on page 25). Such hosts are called "tunneled hosts" and their traffic is protected by ViPNet coordinators.

ViPNet Client for Android in a ViPNet Network

A mobile device with the running ViPNet Client for Android application communicates with other ViPNet hosts over a secure channel through the remote coordinator and accesses open Internet resources directly. Traffic between unprotected hosts, unlike traffic between protected ViPNet hosts, is not encrypted and not controlled by the coordinator. To secure the valuable information on the device against third party access, follow the recommendations below (see [Recommendations on the Mobile Device Protection](#) on page 20).

You can use a corporate DNS server for the mobile device with running ViPNet Client for Android to address ViPNet hosts and Internet resources by DNS names that are sensible and easy to remember (instead of IP addresses). You can protect such a server by tunneling or by installing ViPNet software on it.

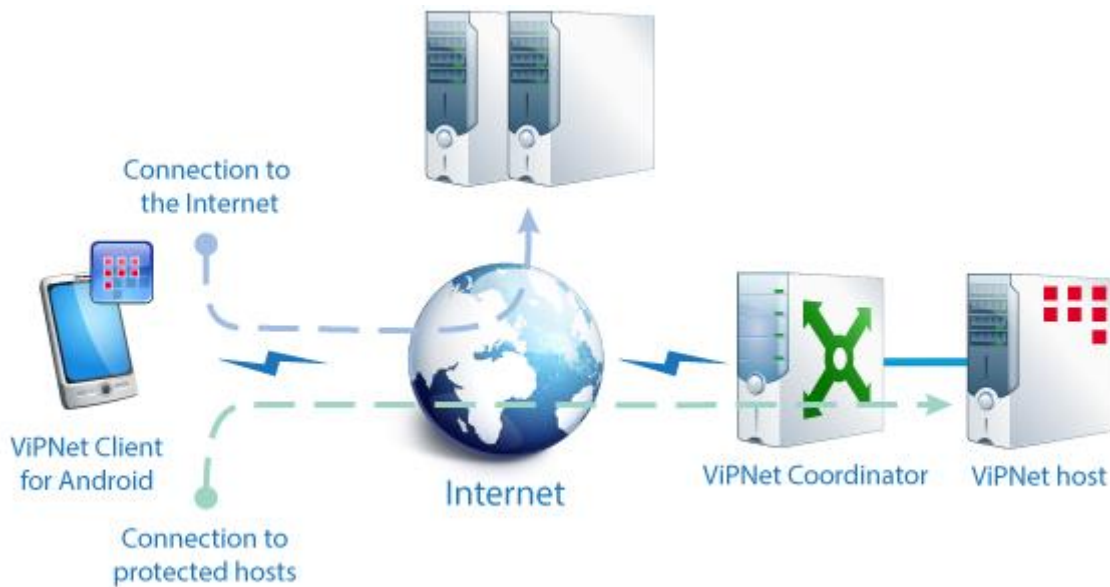


Figure 2. Access to the ViPNet network and Internet resources



Note: If you do not have a ViPNet-protected or tunneled DNS server, the mobile device with running ViPNet Client for Android will not be able to communicate with ViPNet hosts or Internet resources by DNS names.

ViPNet network administrator (see [Configuring Access to ViPNet Hosts Using DNS Names](#) on page 9) can configure the DNS server.

To start using ViPNet Client for Android on your mobile device, get a key set with required settings from your ViPNet network administrator and install it on your device.

Configuring Access to ViPNet Hosts Using DNS Names

To address tunneled or ViPNet hosts by DNS names, do one of the following:

- If you manage your ViPNet network using the ViPNet Administrator software:
 - If your DNS server is a ViPNet host (ViPNet software is installed on it), add the 'DNS server' role to this host.
 - If your DNS server is tunneled by a coordinator, add the 'DNS server' role to the tunneling coordinator and specify the DNS server's IP address.

For more information on adding a DNS server role to hosts, see the document "ViPNet Network Control Center. Administrator's Guide," the chapter "Configuring ViPNet Hosts," the section "Adding Roles to ViPNet Hosts."

- If you manage your ViPNet network in the ViPNet Network Manager program, edit the list of DNS servers. For more information about the DNS servers list, see the document "ViPNet VPN. User's Guide," the chapter "Configuring a ViPNet Network," the section "DNS Server List."

Checklist:

Installing ViPNet Client for Android

To deploy the ViPNet Client for Android app on your Android device, follow the checklist below:

Table 3. Checklist for installing ViPNet Client fro Android

Action	Reference
<input type="checkbox"/> Install ViPNet Client for Android on your device.	Installing and Updating the Application (on page 12)
<input type="checkbox"/> Install the key set file, created by the ViPNet network administrator, on your device.	Installing Keys and Host Links (on page 15)
<input type="checkbox"/> Follow the recommendations on ensuring the best possible protection for your mobile device.	Recommendations on the Mobile Device Protection (on page 20)
<input type="checkbox"/> Start the ViPNet Client for Android app and connect to the ViPNet network.	Starting and Stopping (on page 18)

Distribution Kit

The ViPNet Client for Android installation package includes:

- ViPNet Client for Android setup file `VIPNet-Android-Client-<version>.apk`.
- Documentation in the PDF format:
 - "ViPNet Client for Android. Quick Start."
 - "ViPNet Client for Android. Configuration Guide."

Feedback

Finding Additional Information

For more information about Infotecs products and technologies, see the following resources:

- ViPNet documentation web portal http://www.vipnet.com/redir/doc_vipnet/
- Information about current Infotecs products <http://www.vipnet.com/redir/products/>
- Information about Infotecs solutions <http://www.vipnet.com/redir/solutions/>

Contacting Infotecs

We value any feedback from you. If you have any questions concerning Infotecs products and solutions, any suggestions, complaints or other feedback, feel free to contact us:

- Global contacts page <http://www.vipnet.com/>
- Telephone (Germany): +49 (0) 30 206 43 66 0
- Telephone (USA): +1 (646) 589-8571

Errata

Infotecs makes every effort to ensure that there are no errors or misprints in the text of all documents supplied with ViPNet software. However, no one is perfect, and mistakes do occur. If you find an error in one of our documents, like a spelling mistake or some inaccuracy in describing user scenarios or system features, we would be very grateful for your feedback. By sending in errata you may save other reader hours of frustration, and at the same time you will be helping us provide documentation of even higher quality.

Installing and Removing ViPNet Client for Android

Installing and Updating the Application

To install or update the ViPNet Client for Android application on the Android device, do the following:

- 1 By default, in the Android OS, you are not allowed to install applications using *.apk files. To install the ViPNet Client for Android application, enable application installation using the files. To do this:
 - 1.1 On the Android device, select **Settings > Permissions > Security**.
 - 1.2 On the **Security** page in the **Device administration** section, select the **Unknown sources** check box. On the confirmation page touch **OK**.



Note: Names and types of interface items may slightly differ depending on the manufacturer.

- 2 Copy the installation file of the application to the Android device.
- 3 On the Android device, open the folder, where you saved the file, using a file manager and select the file.
- 4 On the opened page touch **Next** to confirm installation. Then touch **Install**.

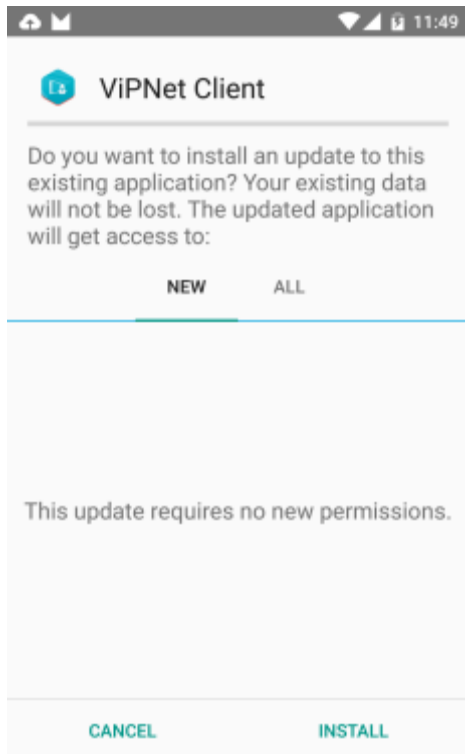




Figure 3. Confirming the start of installation

- 5 On the page that informing you that the installation is completed, touch **Done**.
- 6 Select **Settings > Permissions > Security** and in the **Device administration** section clear the **Unknown sources** check box.

If the application is already installed on your device, the ViPNet Client for Android app icon  will appear in the applications list. To start the application, install keys and host links (see [Installing Keys and Host Links](#) on page 15).

Removing the Application

To uninstall the ViPNet Client for Android application from the Android device, do the following:

- 1 Make sure that the application ViPNet Client for Android is not connected to the ViPNet network (the icon  is displayed on the main page).
- 2 On the Android device, select **Settings > Device > Apps**.



Note: Names and types of interface items may slightly differ depending on the manufacturer.

-
- 3 Select the ViPNet Client for Android application.
 - 4 On the **App info** page, touch **Uninstall**.

5 On the confirmation page, touch **OK**.

The ViPNet Client for Android application will be uninstalled from the device.

Installing, Updating, and Removing Keys and Host Links

Why Do You Need to Install Keys and Host Links

To start ViPNet Client for Android, you need to install keys and host links of your ViPNet host. Otherwise, you cannot work in the protected ViPNet network.

Host links is a set of files containing information on ViPNet network objects including their names, identifiers, IP addresses, and links. These files are created in ViPNet Network Manager or ViPNet Network Control Center and sent to all ViPNet hosts to provide their communication with each other. ViPNet host keys are necessary to encrypt and decrypt IP traffic when you connect with other protected hosts.

To install keys and host links on your Android device, you need a user key set file (see [Key set](#) on page 24) and a password. The ViPNet network administrator must give them to you. You will also need to type the password to connect to the ViPNet network after the ViPNet Client for Android application start.


In the program that is used to manage the ViPNet network, the administrator makes the following settings for the host (an Android device):

- If the ViPNet network is managed with ViPNet Administrator, assigning a “VPN client for mobile devices” role.
- If the ViPNet network is managed with ViPNet Network Manager, adding the “Client Android” host to your network.

Installing Keys and Host Links

To install keys and host links, do the following:

- 1 Copy the key set file that you have got by the ViPNet network administrator to your mobile device with the ViPNet Client for Android application.
- 2 On your Android device, touch the ViPNet Client for Android app icon.

- 3 On the start page with the icon , touch **Install keys**.
- 4 In the displayed window, choose one of the file management tools available on your device.
- 5 Navigate to the folder, where you have saved the key set file, and select the file.
- 6 On the corresponding page, type the password that you have got from the ViPNet network administrator and then touch **Log on**.

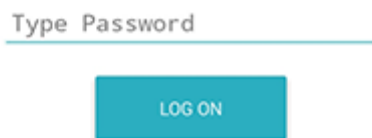


Figure 4. Typing ViPNet user password

- 7 Wait until the keys and host links installation will be completed.

After keys and host links installation you can access protected hosts of your ViPNet network.

Updating Keys and Host Links

You need to update keys and host links if the ViPNet network topology or ViPNet hosts options has been changed or master key (on page 24) has been changed. The ViPNet network administrator creates keys and host links and sends them centrally to hosts, where they are accepted and installed automatically, without any user actions.

In some cases you may need to update keys and host links manually, namely, when you cannot transfer new keys and host links over the network for some reason or when master keys have been changed for the network. To update manually, do the following:



- 1 Remove keys and host links that are installed on the device (see [Removing Keys and Host Links](#) on page 17).
- 2 Install the new keys and host links that you have got by the ViPNet network administrator (see [Installing Keys and Host Links](#) on page 15).

The keys and host links will be updated and you can continue working in ViPNet network.

Removing Keys and Host Links

If necessary, you can remove keys and host links that are installed on the device. You need it, for example, if keys and host links have been updated (see [Updating Keys and Host Links](#) on page 16) or in case you hand over the device to another ViPNet user.

To remove the keys and host links from the device, do the following:

- 1 On your Android device, touch the ViPNet Client for Android app icon .
- 2 Touch  to extend the application menu.
- 3 Touch the user name.
- 4 On the **Information** page, touch **Delete key set** and confirm the deletion.

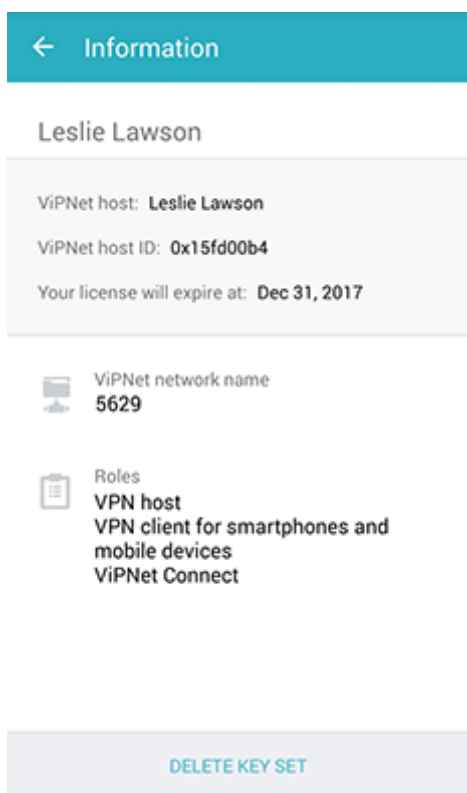


Figure 5. Removing keys and host links


Keys and host links will be removed from the device.

Using ViPNet Client for Android

Starting and Stopping

When you start the ViPNet Client for Android application and connect to the ViPNet network, you can access to corporate resources, exchange data with other ViPNet users, and perform other tasks on a corporate network.


To start ViPNet Client for Android and connect to a ViPNet network, do the following:

- 1 Make sure that your mobile device is connected to the Internet.
- 2 On your Android device, touch the ViPNet Client for Android app icon .
- 3 On the main page, touch **Enable**.
- 4 To establish a secure connection, type your ViPNet user password in the corresponding box (see [figure 4](#) on page 16) and touch **Log on**.
- 5 If a warning appears on the screen that a VPN connection will be established, select the **I trust this application** check box and touch **OK**.

Your permission for this application to create a VPN connection is effective till you reboot the device or till you break the ViPNet connection from the session information window (see [figure 7](#) on page 20). If you reboot your mobile device or break the ViPNet connection by touching **Disconnect**, in some versions of the Android operating system the warning may be displayed again at the next VPN connection attempt.



You will be connected to the ViPNet network. Now you can work with corporate network resources, check corporate mail, and more.

After you finish working in the corporate network, disable the ViPNet connection in one of the following ways:

- In the window with the information about the current session (see [figure 7](#) on page 20), touch **Disconnect**.
- On your Android device, touch the ViPNet Client for Android app icon  and then touch **Disable**.

Viewing the ViPNet Connection Settings

To view the information about the ViPNet connection settings:

- 1 On your Android device, touch the ViPNet Client for Android app icon .
- 2 Touch  to extend the application menu.
- 3 On the application menu, touch **Options**.

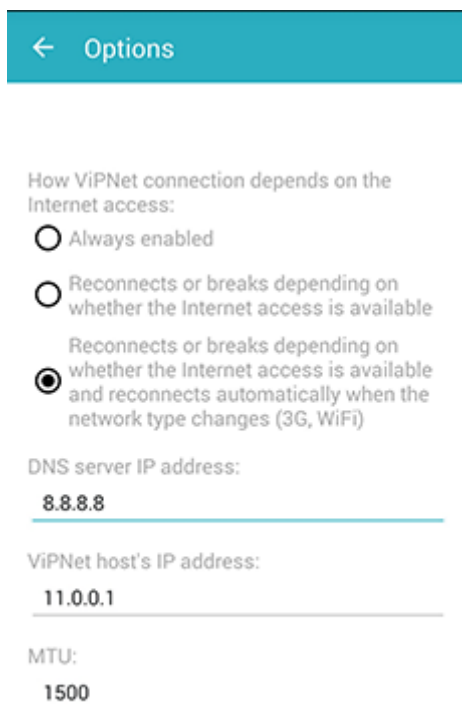



Figure 6. Editing your ViPNet connection settings


By default, when you start ViPNet Client for Android and connect your device to the ViPNet network (the  is displayed on the main page), your device remains connected while there is access to the Internet. If you change the network type while the ViPNet connection is active, for example, if you change 3G to Wi-Fi, the ViPNet Client for Android application disconnects from the ViPNet network and then reconnects.



Warning: We recommend keeping all parameters on the **Settings** page unchanged.

Viewing Information about Current Session

To view the information about ViPNet Client for Android current session (user name, session duration, incoming and outgoing traffic volume) slide your finger down the screen and select the notification with

the icon . The window with the information will appear.

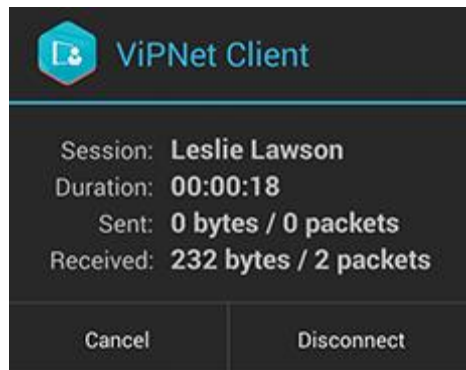


Figure 7. Information about ViPNet Client for Android current session



Note: The actions specified in this section and the interface of the current session data window may vary depending on a specific device and version of the Android operating system.

Recommendations on the Mobile Device Protection

Insufficient protection of the mobile device, which is used to access corporate network resources, endangers not only personal data on the device, but also valuable corporate information.

To protect your data on your Android device and to access the corporate network securely, follow the recommendations:

- Start the ViPNet Client for Android application only if you need to access the ViPNet network. Stop the ViPNet Client for Android application once you have completed your work in the ViPNet network.
- Never leave your mobile device with ViPNet Client for Android running unattended.
- Set the password-protected screen lock on your mobile device (a standard Android feature). We recommend you to create a complex password that contains at least six symbols and includes upper and low case letters, numbers, and underscores.
- Use the Android OS encryption to encrypt data on your mobile device.

- Disable USB debugging (a standard Android OS feature). If USB debugging is enabled you can connect the mobile device to the computer and manage it by means of Android Debug Bridge. This utility allows you, for example, to copy a file to the device, to install or to remove applications, to get superuser rights (see [Superuser \(root\)](#) on page 25).
- Only install software from known sources on your device.

Troubleshooting

Installation of a Key Set on a Device Fails

If you are unable to install a key set (*.dst) file on your device, make sure that the key set complies with the following requirements:

- The key set has been created in ViPNet Administrator version 3.2.9 and later or Brand > Network Manager version 4.2 and later.
- If your network is managed via ViPNet Administrator, the device should have the VPN client for mobile devices role. The device should connect to the network through a firewall with dynamic NAT and traffic routing through a coordinator.
- If your network is managed via ViPNet Network Manager, the Client Android host type should be specified for your device.

Installation of ViPNet Client for Android Fails


Make sure that the device, on which you are trying to install the app, is included in the list of supported devices (see [Supported Android Devices](#) on page 6).

No Connection to the ViPNet Network

You can connect to the ViPNet network only if your mobile device with the ViPNet Client for Android app can establish IPv4 connections. To check the Internet protocol version configured by default by your mobile operator and change the protocol if needed, do the following:





Note: The actions below may vary depending on a specific device or version of the Android operating system.

- 1 Open **Settings > Wireless & Networks > More > Mobile networks > Access Point Names**.
- 2 Select your current Internet connection in the list and, on the settings page, check the **APN protocol** and **APN roaming protocol** settings.
- 3 If **IPv6** is specified as the APN protocol, change the protocol version:
 - If you can change the protocol of your current Internet connection:
 - Touch **APN protocol** and select **IPv4**.
 - Touch **APN roaming protocol** and select **IPv4**.
 - If you are unable to change the protocol in the settings of your current Internet connection:
 - On the **Access Point Names** page, touch the icon  and select **Create APN** to create a new Internet connection.
 - On the displayed page, select **IPv4** as the APN protocol and APN roaming protocol. Copy all other settings from your current connection.
 - On the **Access Point Names** page, make the created Internet connection your current connection.

Contacting Technical Support

If the recommendations provided in the [Troubleshooting](#) (on page 21) section did not help you to correct the ViPNet Client for Android behavior, report an error to Infotecs. To do this:

- 1 On your Android device, touch the ViPNet Client for Android app icon .
- 2 Touch  to extend the application menu.
- 3 On the menu, select **Report about error**.
- 4 Choose the means of sending the report from the ones available on your device.
- 5 Write a message to describe the problem.

An archive file will be attached to your message automatically.

Your confidential information is not collected. Infotecs protects your private information responsibly and takes all measures to prevent unauthorized access to the information and its disclosure.

- 6 If you write a message using a mail client, send the message to the address specified by default.

In other cases, send the report to the Infotecs technical support (see [Feedback](#) on page 10).

Wait for the reply with an instruction on dealing your problem. The reply will arrive at the address that you used to send the report.

Version History

This Appendix describes general changes that were made to previous versions of ViPNet Client for Android.

What's New in Version 2.1

This section contains a brief description of changes made to version 2.1.

- **Installation without the superuser (root) rights**

Now you can install the ViPNet Client for Android application on the Android device without the superuser (see [Superuser \(root\)](#) on page 25) rights. It makes installation simpler.

- **Installing directly on a device**

Now you can install the ViPNet Client for Android application directly on the Android device using the *.apk file. You do not need the ViPNet Distribution Center program any more.

- **Simultaneous access to ViPNet hosts and open Internet resources**

Now using the ViPNet Client for Android application you can work with protected ViPNet hosts and open Internet resources simultaneously. You access open Internet resources directly, bypassing the coordinator.

There are no other modes in this version of the ViPNet Client for Android.

- **Automatic connection to DNS server**

Now you do not need to configure the access to corporate DNS and WINS servers manually on Android devices. While creating a key set for your device, the ViPNet network administrator specifies the required settings that become effective on your device automatically right after you install the key set (see [Installing Keys and Host Links](#) on page 15).

In this version of ViPNet Client for Android, you may not configure the access to corporate DNS and WINS servers manually.

Glossary

Android OS

An operating system for mobile devices, which is developed and supported by Google. This operating system can be installed on communicators or tablet PCs of various vendors. For more information on devices running on Android OS, see Wikipedia ([https://en.wikipedia.org/wiki/Android_\(operating_system\)](https://en.wikipedia.org/wiki/Android_(operating_system))).

Client (ViPNet client)

A ViPNet host that is the start and the end point of data transfer. Opposite to a coordinator, a client does not route VPN traffic and service data.

Coordinator (ViPNet coordinator)

A ViPNet Coordinator HW appliance or a network host with installed ViPNet Coordinator for Windows or ViPNet Coordinator VA software. A ViPNet coordinator functions as a server on a ViPNet network and routes VPN traffic and service data.

Key set

A file with the `.dst` extension created in ViPNet Key and Certification Authority for each user of a ViPNet host. This file contains host links, keys, and a license file necessary to start working with the ViPNet software on the host. To ensure functioning of a ViPNet program, you must install a key set on the host with this program.

Master key

A key, which is used to derive symmetric keys by encrypting a pair of ViPNet identifiers of the corresponding workgroups or hosts using this key. There can be three types of master keys in a ViPNet network:

- a master key for workgroups' exchange keys,
- a master key for protection keys for exchange keys,
- a master key for users' personal keys.

A master key is created using a random numbers generator. A master key should be secretly stored in the Key Authority, as compromising a master key leads to compromising all the keys derived from it.

When you establish a partner network connection, you derive cross network exchange keys from a so-called 'cross-network master key.'

Protected connection

A connection between two hosts that is encrypted by means of ViPNet software.

Protected host

A host with installed ViPNet software that can encrypt traffic in the network layer.

Role

A ViPNet host's functionality, designed to solve user-oriented and service tasks for a ViPNet network. Roles are used in network licensing (by being specified in the license file) and define which program features can be used and which software can be installed on your ViPNet host.

Roles may have some attributes: user permissions that affect the choice of features and quantitative characteristics.

Roles for each ViPNet host are specified by the ViPNet network administrator in ViPNet Network Control Center.

Superuser (root)

A user account in UNIX systems presupposing that the user has special permissions to control the system totally, edit system files, start special applications, back up the system. Root user rights have no restrictions.

Symmetric key

A bits sequence of a defined length used both to encrypt and decrypt information.

In ViPNet software, symmetric keys are used to encrypt and decrypt IP traffic, applications' data (including mail data), and service and application packets.

Tunneling

Encryption of unprotected hosts' traffic, while the traffic is transferred via a public network.

Unprotected IP traffic

Unencrypted IP packets.

ViPNet Administrator

A software suite intended to manage a ViPNet network. It includes the ViPNet Network Control Center server and client applications and the ViPNet Key and Certification Authority program.

ViPNet host

A network node with installed ViPNet software registered in ViPNet Network Control Center.

ViPNet Key and Certification Authority

A part of the ViPNet Administrator software. The ViPNet Key and Certification Authority (KCA) administrator creates and updates keys for ViPNet hosts and manages certificates and certificate revocation lists.

ViPNet network

A logical network that is created and maintained with ViPNet software and consists of ViPNet hosts.

A ViPNet network has a special addressing system, which provides for data exchange between its hosts. Each ViPNet network has its own unique number (host ID).

ViPNet Network Control Center

In a network managed using the ViPNet Administrator software, ViPNet Network Control Center (NCC) is a program that is a part of ViPNet Administrator. It is designed to create and configure ViPNet networks. Its main features are as follows:

- Creating a virtual network (creating network objects and their links, including partner network links);
- Changing network configuration;
- Generating and distributing host links;
- Distributing host keys and user keys;
- Generating information on users' links for ViPNet Key and Certification Authority;
- Granting permissions to ViPNet users.

ViPNet Network Manager

A program that is a part of the ViPNet VPN software suite. It is intended to create, configure, and administer small and middle-sized ViPNet networks. ViPNet Network Manager also functions as certification and key authorities.

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