



IP PROTECT CLIENT

Deployment Guide

IP Protect Client

Deployment Guide

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Preface

This guide is intended for administrators of IP Protect Client.

It contains all the information required to deploy the software, with licenses and VPN configurations.

A complementary document dedicated to the software's configuration, called "Administrator's Guide".

Prior to proceeding with the deployment of IP Protect Client, please carefully read the section entitled "Security recommendations" in the "Administrator's Guide".

Software release

The minimum software release corresponding to this document is **7.0**.

Chapitre 1. Deploying the VPN Client

1.1 Introduction

The deployment of the software mostly relies on the fact that it can be installed silently, i.e. without any user interaction (prompts or warnings).

All the software configuration options can therefore be set during installation, either using initialization files or the set of MSI parameters and properties passed from the command line.

1.2 Customizing the software

In addition to using the software's **Configuration Panel** to generate VPN configurations to be deployed, you can customize Trustway IP Protect Client during installation and when you use it for the first time by any of the following three means:

- Using a set of parameters and properties passed to the MSI installer from the command line
- Using a software installation configuration file (`vpnsetup.ini`)
- Using a PKCS#11 tokens or smart card initialization file (`vpnconf.ini`)

The configuration files must be stored in the following directories:

- `vpnsetup.ini` must be stored in the `C:\Windows` directory
- `vpnconf.ini` must be stored in the same directory where Trustway IP Protect Client is installed and running (`C:\Program Files\Trustway\Trustway IP Protect Client` by default)

These various means of configuring the software during its installation allow you, for example, to prepare the deployment of the IP Protect Client on heterogeneous platforms equipped with different tokens or smart cards, but for which the certificates to be used have the same characteristics (e.g. the certificates to be used are of "authentication" type).

Other example: IP Protect Client can be deployed on platforms equipped with tokens or smart cards that are unknown to it. The configuration file allows IP Protect Client to recognize them.

1.3 Silent installation

A "silent" installation is an installation that is carried out without any user interaction, prompts, or warnings. The installation is carried out in an entirely transparent manner.

In this case, the installation parameters are configured using a set of MSI parameters and properties passed from the command line or the `vpnsetup.ini` software installation configuration file (see section `vpnsetup.ini` file).

To run the installation in silent mode, use the `/quiet` option in the command line.

- Run the Windows command prompt as administrator and enter the following command line:

```
msiexec /i "[download_directory]\Trustway_IP_Protect_Client.msi" /q
```

Example

```
msiexec /i "[download_directory]\Trustway_IP_Protect_Client.msi" /q  
LICENSE=[license number]
```

[download_directory] is the directory to which the installer has been downloaded.



For more command-line installation options, refer to chapter **Erreur ! Source du renvoi introuvable. Erreur ! Source du renvoi introuvable..**

1.4 Deploying an update

Deploying IP Protect Client update is done in the exact same way as deploying a new installation.

When performing a silent update, the entire update process is silent (back up parameters, uninstall previous version, install new version, restore parameters).

1.5 Repairing

The repair function of the MSI installer is currently not supported.

1.6 Uninstalling the software

The software can be uninstalled from the **Programs and Features** tab in the Windows **Control Panel** or by right clicking the Trustway IP Protect Client icon in the Windows **Start** menu and choosing **Uninstall**.

1.7 Order in which properties and files are taken into account

During installation, the properties passed in the command line have priority over equivalent values possibly present in the `vpnsetup.ini` file.

The `vpnconf.ini` file is taken into account each time IP Protect Client is started.

Chapitre 2. Deploying software activation

2.1 Introduction

Software must be activated in order to be able to use it beyond the trial period.

Software activation is performed online on the website.

The activation parameters can be configured to be automatically applied during the software installation and deployment process, either from the command line or in the `vpnsetup.ini` configuration file. These methods are described in the sections below.

2.2 Activating the software on the website

Using activation parameters, the software's activation can be fully integrated in the deployment process. This allows for the activation process to be automated and performed in a manner that is entirely transparent for the end user (no interaction required).

In order for the activation to be executed automatically and in a manner that is transparent for the user, use the installer's command-line options: `AUTOACTIV` (which automates activation) and `NOACTIVWIN` (which hides the activation window), together with the `LICENSE` and `ACTIVMAIL` properties as described in section [Activating the license](#).

Command line for automated and silent activation:

```
msiexec /i "[download_directory]/Trustway_IP_Protect_Client.msi" /q  
LICENSE=[license_number] ACTIVMAIL=[activation_email] NOACTIVWIN=1 AUTOACTIV=1
```

2.3 Activating “within the tunnel”

Users have 30 days (trial period) from the first time IP Protect Client is installed to connect to the internet to activate the software.

Activation can be performed manually by opening the **About** window of IP Protect Client (refer to IP Protect Client “Administrator's Guide”).

If the `AUTOACTIV` property is set to 1, the IP Protect Client will attempt to activate automatically:

1. Every time IP Protect Client is started,
2. Every time a tunnel is opened.



If activation is not performed (manually or automatically) within 30 days of the installation of the software, you will no longer be able to open a tunnel or activate within the tunnel.

2.4 Identifying activations

When you deploy the software, we recommend that you identify the workstations on which activation has been performed. This will allow for easy activation/deactivation of the installed licenses.

Workstation identification is achieved by using the **Activation email** field during the installation process, e.g. to enter the name of the activated workstation.

Installation script for the Windows command prompt with the identifier of an activated workstation:

```
msiexec /i "[download_directory]/Trustway_IP_Protect_Client.msi" /q  
LICENSE=[license_number] ACTIVMAIL=%ComputerName%@company.com  
NOACTIVWIN=1 AUTOACTIV=1
```

Installation script for Microsoft PowerShell with the identifier of an activated workstation:

```
msiexec /i "[download_directory]/Trustway_IP_Protect_Client.msi" /q  
LICENSE=[license_number] ACTIVMAIL=$env:computername@company.com  
NOACTIVWIN=1 AUTOACTIV=1
```

The operating system automatically enters the %ComputerName% or \$env:ComputerName environment variable during installation. The activation process will then automatically use the environment variable.



The value of the ACTIVMAIL property must always be formatted according to the email address syntax, i.e. it must always contain the characters "@" and "." (dot). Activation will fail if this is not the case.

Chapitre 3. Deploying VPN configurations

3.1 Integrity of a VPN configuration

Protecting the integrity of a VPN configuration when it is exported and checking its integrity when it is imported is a function that can be enabled using the `SIGNFILE` property. This property is disabled by default.

Example of a command line to enable signing and checking the integrity of a configuration file:

```
msiexec /i "[download_directory]/Trustway_IP_Protect_Client.msi" /q SIGNFILE=1
```

A preconfigured VPN configuration can be included with the installation of IP Protect Client. This configuration will be automatically imported and applied during software installation. It will therefore be immediately operational for the end user, as of the first time IP Protect Client is started.

The steps to create such an installation are as follows:

1. From the IP Protect Client's **Configuration Panel**, create the VPN configuration for the target workstation.
2. Export the VPN configuration (**Configuration > Export** menu item, refer to the IP Protect Client "Administrator's Guide") and protect it with a password, if desired.
3. Transfer the installation program and the VPN configuration to the target workstation.
4. Run the installation of IP Protect Client by specifying the `TGBCONF_PATH` and `TGBCONF_PASSWORD` properties (if the configuration is password protected, refer to section 6.4 VPN configuration). When the installation is completed, IP Protect Client will have been installed with the imported VPN configuration applied.

Exemple

```
msiexec /i "[download_directory]/Trustway_IP_Protect_Client.msi" /q  
TGBCONF_PATH=C:\Users\Admin\conf.tgb TGBCONF_PASSWORD=[password]
```

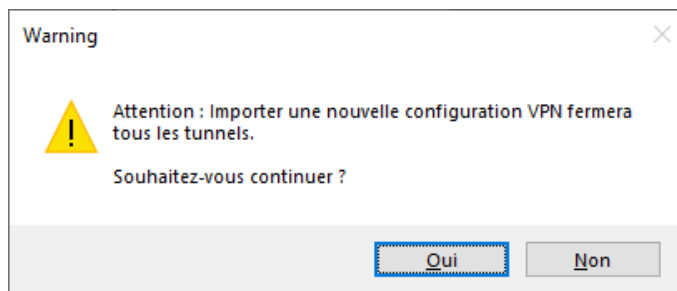
From a deployment security perspective, this method relies on the integrity check function in VPN configurations, if it is enabled. If this is the case, the function ensures that the configuration imported during installation has not been corrupted.

3.2 Deploying a VPN configuration update

Once Trustway IP Protect Client is installed you can update its VPN configuration using the function to import a configuration file from the command line.

To import a configuration from the command line, proceed as follows:

5. Create the VPN configuration for the target workstation.
6. Export the configuration (**Configuration** > **Export** menu item, refer to IP Protect Client “Administrator's Guide”). It can be encrypted with a password.
7. Transfer the VPN configuration to the workstation to be updated.
8. On the target workstation, run `vpnconf.exe` in the command line and, where appropriate, specify the password used to protect the exported configuration (refer to the `/add`, `/replace` and `/pwd` options described in detail in section 5.3 Import).
9. If one or several tunnels are open, the following warning window will appear:




If you want to perform a silent update of the configuration (without warning window), when one or several tunnels are open, use the command-line options to close and then open them again (see chapter **Erreur ! Source du renvoi introuvable. Erreur ! Source du renvoi introuvable.**).



If access to the **Configuration Panel** is restricted to administrators, the command line interpreter (`cmd`, `PowerShell`, etc.) must be run as administrator to be able to use the import or export commands:

`/import`, `/importance`, `/add`, `/replace`, `/export`,
`/exportonce`.

  For further details on the command-line options, refer to section Using command-line options.

Chapitre 4. Deploying the software with tokens or smart cards

4.1 Introduction

IP Protect Client supports a great number of tokens and smart cards that can be used for strong multi-factor authentication (MFA) using one of the following APIs: CNG (default) or PKCS#11.

4.1.1 CNG

CNG stands for "Cryptography API: Next Generation". It is an API to access cryptographic tokens and smart cards, currently provided by Microsoft. IP Protect Client uses it by default, and it does not require any additional configuration.

4.1.2 PKCS#11

PKCS#11 is an API to access cryptographic tokens and smart cards that has been standardized by RSA Labs. Most tokens and smart cards are compatible with PKCS#11. For IP Protect Client to be able to use the PKCS#11 API, a middleware provided by the manufacturer of the token or smart card must first be installed on the target computer.

To force IP Protect Client to use the PKCS#11 API instead of the CNG API, use the **Force PKCS#11 API usage** option (refer to the section entitled "PKI Options" in IP Protect Client "Administrator's Guide") or the MSI property PKCS11ONLY when installing the software (see section PKCS11ONLY).

IP Protect Client supports PKCS#11-compatible tokens or smart cards from leading manufacturers (Gemalto, IN Groupe, Neowave, Feitian, Yubico, etc.) without any additional configuration.

For tokens or smart cards that are not recognized as standard by IP Protect Client, the software allows you to specify their characteristics in a PKCS#11 initialization file called `vpnconf.ini`, described below.

4.2 `vpnconf.ini` file

To enable the Windows Enterprise VPN Client to support tokens or smart cards that are not recognized as standard, you must create a `vpnconf.ini` file in the VPN Client's installation directory (by default :

`C:\Program Files\Trustway\Trustway IP Protect Client`). You can create the file using a standard text editor (e.g. Notepad).

The parameters to be specified in the `vpnconf.ini` file are broken down into several sections:

- A series of (optional) `ATR` sections used to define the attributes of tokens or smart cards that are not recognized as standard by the software
- An (optional) `ROAMING` section to specify the token or smart card to be used when initializing the software.

4.2.1 ATR sections

ATR stands for "Answer To Reset". It is an identifier that the token or smart card returns upon receiving a reset command. This identifier is related to the manufacturer and model of the token or smart card.

Each ATR section describes the required characteristics to access a token or smart card, or a family of tokens or smart cards that are not yet known to the software.

The parameters to be specified in the ATR section are detailed in the following table.

Parameter	Meaning
[ATR#]	ATR of the token or smart card to be added
mask	Mask to be used with this ATR ¹
scname	Name of the token or smart card (strictly descriptive field)
manufacturer	Name of the manufacturer (strictly descriptive field)
pkcs11dllname	Name of the PKCS#11 DLL
dllpath	Path to the PKCS#11 DLL. The path is the complete path. It must also contain the DLL name. ²
registry	Name of the key in the registry specifying the path to the middleware ³

¹ Details regarding ATRs and ATR masks are provided by the manufacturers of tokens or smart cards. If in doubt, you can configure a mask containing only FF. The lengths of the ATR and the mask must be identical. The mask line can thus be as follows: `mask=FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF`

² At least one of the two parameters `dllpath` or `registry` must be defined.

³ *ibid*

Example

```
[3B:0F:52:4E:42:4F:24:00:23:00:00:00:00:00:00:01]
mask="FF:FF:FF:FF:FF:FF:FF:00:FF:00:00:FF:FF:00:00:FF"
sname="Card Name"
manufacturer="Company Name"
pkcs11dllname="mdlw.dll"
dllpath="C:\path\to\middleware\mdlw.dll"
```

4.2.2 ROAMING section

The ROAMING section is used to specify the token or smart card reader to be used when the option **Use the token or SC reader specified in the VPN Config.** is selected (refer to the section entitled "PKI Options" in IP Protect Client "Administrator's Guide") or when the software has been installed with the SMARTCARDROAMING property set to 2 or 3 (see section 6.7.1 SMARTCARDROAMING).

The parameters to be specified in the ROAMING section are detailed in the following table:

Parameter	Meaning
SmartCardReader	Name of the smart card reader or token to use
SmartCardMiddleware	DLL file used to communicate with the token or smart card
SmartCardMiddlewareType	Type of middleware ⁴
SmartCardMiddlewarePath	Path to the middleware including the middleware name ⁵
SmartCardMiddlewareRegistry	Name of the key in the registry specifying the path to the middleware ⁶

⁴ PKCS#11 is the only value possible for the SmartCardMiddlewareType parameter.

⁵ At least one of the two parameters SmartCardMiddlewarePath or SmartCardMiddlewareRegistry must be defined.



The parameters for accessing the Windows registry must comply with the following syntax:

PRIMARY_KEY:path\\to\\specific\\key:value

Example

```
[ROAMING]
SmartCardReader="Card Name"
SmartCardMiddleware="mdlw.dll"
SmartCardMiddlewareType="PKCS#11"
SmartCardMiddlewareRegistry="HKEY_LOCAL_MACHINE:SOFTWARE\\
Vendor\\Prod\\CK:PKCS#11DLL"
```

Chapitre 5. Using command-line options

5.1 Introduction

Trustway IP Protect Client offers a set of command-line options as standard that can be used in scripts or batch files. These options are used to perform various tasks, such as opening or closing a VPN tunnel, importing or exporting a VPN configuration, etc.

The syntax of these command-line options always remains the same:

```
"[installation_directory]\vpnconf.exe" [/option[:value]]
```

- [installation_directory] is the directory in which the vpnconf.exe executable file is located (i.e. IP Protect Client installation directory).
- If the value contains blank spaces (e.g. a directory name), it must be placed between quotation marks.
 - All available options are detailed below.



The `vpnconf.exe` command line cannot be run when IP Protect Client is started in TrustedConnect mode. You must quit the **TrustedConnect Panel** to use the command-line options, and then restart it.

In this chapter, the tunnel name consists of the following

	Tunnel Name
IKEv2	IKEAuth-ChildSA



The tunnel name is case sensitive. If the name contains spaces, it must be placed between quotation marks.

5.2 Difference between import, importonce, add, and replace

The `/import` option is used to import a VPN configuration and simultaneously start IP Protect Client, if it is not already running.

The `/importonce` option is used to import a VPN configuration without starting IP Protect Client.

When IP Protect Client is already running, both options simply import the VPN configuration.

When the existing VPN configuration (prior to import) of IP Protect Client is not empty, both options will display a pop-up asking the user whether to “Add or replace”, i.e. add the new VPN configuration or replace the old configuration with the new one.

Option	Prompt to “Add or replace”	Starts VPN Client if not already running
<code>/import</code>	Yes	Yes
<code>/importonce</code>	Yes	No
<code>/add</code>	No: adds the VPN configuration	No
<code>/replace</code>	No: replaces the VPN configuration	No

The `/add` and `/replace` options are used to prevent showing the user prompt: the `/add` option will always add the VPN configuration, the `/replace` option will always replace the old configuration with the new one.

If access to the **Configuration Panel** is restricted to administrators, the command line interpreter (cmd, PowerShell, etc.) must be run as administrator to be able to use the import or export commands: `/import`, `/importonce`, `/add`, `/replace`, `/export`, `/exportonce`

5.3 Importing

5.3.1 `/import`

Syntax: `"[installation_directory]\vpnconf.exe" /import:[ConfigFileName]`

Usage: This option is used to import a VPN configuration when IP Protect Client is started.

This option can be used to start IP Protect Client with a specific VPN configuration.

If IP Protect Client is already running, this option will import and update the VPN configuration without stopping the software. A window is displayed prompting you to decide whether the configuration should be added or replaced. If a tunnel is open when you import a configuration, it is closed and no tunnel will be opened automatically.

[ConfigFileName] is the complete path to the file to be imported. If the path contains blank spaces, quotation marks must be added before and after.

Example: `"C:\Program Files\Trustway\Trustway IP Protect Client\vpnconf.exe"`
 `/import:"C:\Users\Admin\Documents\myvpnconf.tgb"`



If the imported VPN configuration is password-protected, you must use the `/import` option together with the `/pwd` option (see below).

If the current VPN configuration is not empty, the software will display a window prompting the user to decide whether to add the imported VPN configuration or replace the existing configuration with the one being imported. To prevent this window from being displayed, use the `/add` or `/replace` options (see below).

5.3.2 **`/importonce`**

Syntax: `"[installation_directory]\vpnconf.exe" /importance:[ConfigFileName]`

Usage: Same behavior as the `/import` option, but without starting the VPN Client.

`[ConfigFileName]` is the complete path to the file to be imported. If the path contains blank spaces, quotation marks must be added before and after.

Return code: Refer to the note on return codes below.

0: Command has been executed successfully

1: File not found

2: Error in file signature

3: Wrong password (the configuration is protected)

4: A password is required and could not be obtained (password prompt window canceled)

Example: `"C:\Program Files\Trustway\Trustway IP Protect Client\vpnconf.exe"
/importance:"C:\Users\admin\Documents\mavpnconf.tgb"`



If the VPN configuration is empty, both the `/import` and `/importance` options will not prompt the user for anything and will “add” the VPN configuration.



If the current VPN configuration is not empty, the software will display a window prompting the user to decide whether to add the imported VPN configuration or replace the existing configuration with the one being imported. To prevent this window from being displayed, use the `/add` or `/replace` options (see below).



The `/importance` command is preemptive and will pause the rest of the command line until it has been successfully completed. An error code will be returned in the `ERRORLEVEL` variable (see return codes below).

If `/importance` is not specified with a password, but a password is required, a dialog box opens.



If the user cancels the Add/Replace prompt, a return code set to 1 will be written in `ERRORLEVEL` (users are not supposed to use `/importance` in a script if the execution should be silent).

5.3.3 /add

Syntax: `"[installation_directory]\vpnconf.exe" /add:[ConfigFileName]`

Usage: Used to add a VPN configuration.

[ConfigFileName] is the complete path to the file to be imported. If the path contains blank spaces, quotation marks must be added before and after.

Return code: Refer to the note on return codes below.

- 0: Command has been executed successfully
- 1: File not found
- 2: Error in file signature
- 3: Wrong password (the configuration is protected)
- 4: A password is required and could not be obtained (password prompt window canceled)

Example: `"C:\Program Files\Trustway\Trustway IP Protect Client\vpnconf.exe" /add:"C:\Users\Admin\Documents\myvpnconf.tgb"`



If the imported VPN configuration is password-protected, then /add must be used with the /pwd option (see below).



The /add command is preemptive and will pause the rest of the command line until it has been successfully completed.

An error code will be returned in the `ERRORLEVEL` variable (see return codes below).

If /add is not specified with a password, but a password is required, a dialog box will open.

5.3.4 /replace

Syntax: `"[installation_directory]\vpnconf.exe" /replace:[ConfigFileName]`

Usage: Used to add a VPN configuration.

`[ConfigFileName]` is the complete path to the file to be imported. If the path contains blank spaces, quotation marks must be added before and after.

Return code: Refer to the note on return codes below.

- 0: Command has been executed successfully
- 1: File not found
- 2: Error in file signature
- 3: Wrong password (the configuration is protected)
- 4: A password is required and could not be obtained (password prompt window canceled)

Example: `"C:\Program Files\Trustway\Trustway IP Protect Client\vpnconf.exe" /replace:"C:\Users\Admin\Documents\myvpnconf.tgb"`



If the imported VPN configuration is password-protected, then `/replace` must be used with the `/pwd` option (see below).

The `/replace` command is preemptive and will pause the rest of the command line until it has been successfully completed.
An error code will be returned in the `ERRORLEVEL` variable (see return codes below).
If `/replace` is not specified with a password, but a password is required, a dialog box will open.

5.3.5 `/pwd`

Syntax: `"[installation_directory]\vpnconf.exe" /pwd:[password]`

Usage: Used to specify a password for importing and exporting VPN configurations. This option is used with the following options: `/import`, `/importonce`, `/add`, `/replace`, `/export`, `/exportonce`.

In the command line, the `/pwd` option must be specified after the import or export options.

When exporting the configuration file, the password must be greater than or equal to 16 characters in length.

Example: `"C:\Program Files\Trustway\Trustway IP Protect Client\vpnconf.exe" /import:"C:\Users\Admin\Documents\myvpnconf.tgb" /pwd:mypwd`



From a security standpoint, we recommend using the `/importonce`, `/add` and `/replace` options for maintenance tasks (and not `/import`), since they quit the software immediately after their execution.

5.4 Exportation

5.4.1 `/export`

Syntax: `"[installation_directory]\vpnconf.exe" /export:[ConfigFileName]`

Usage: Used to export a VPN configuration when you start the VPN Client software.

If the software is already running, the `/export` option will export the VPN configuration without stopping it.

`[ConfigFileName]` is the complete path to the file to be imported. If the path contains blank spaces, quotation marks must be added before and after.

`/export` can be used with `/pwd` in order to export a VPN configuration and protect it with a password.

Example: `"C:\Program Files\Trustway\Trustway IP Protect Client\vpnconf.exe" /export:"C:\Users\Admin\Documents\myvpnconf.tgb" /pwd:gqlaRe7fr8TGB2!5`

5.4.2 `/exportonce`

Syntax: `"[installation_directory]\vpnconf.exe" /exportonce:[ConfigFileName]`

Usage: Same behavior as the `/export` option, but without starting IP Protect Client.

If the software is already running, the `/exportonce` option will export the VPN configuration without stopping it.

[ConfigFileName] is the complete path to the file to be imported. If the path contains blank spaces, quotation marks must be added before and after.

`/exportonce` can be used with `/pwd` in order to export a VPN configuration and protect it with a password.

Example: `"C:\Program Files\Trustway\Trustway IP Protect Client\vpnconf.exe" /exportonce:"C:\Users\Admin\Documents\myvpnconf.tgb" /pwd:gq1aRe7fr8TGB2!5`

5.5 Opening/closing a VPN tunnel

The `/stop`, `/closeall`, and `/status` options can only be executed if IP Protect Client is already running and not started in TrustedConnect mode.

The `/open` and `/close` options can be executed even if IP Protect Client is not already running. In this case, the software is started and does not quit, but no return code is output to find out the result of the execution.

5.5.1 /stop

Syntax: `"[installation_directory]\vpnconf.exe" /stop`

Usage: Closes all VPN tunnels currently open and quits the VPN Client software.

Example: `"C:\Program Files\Trustway\Trustway IP Protect Client\vpnconf.exe" /stop`

5.5.2 /open

Syntax: `"[installation_directory]\vpnconf.exe" /open:[TunnelName]`

Usage: Used to open a VPN tunnel from the command line.

Return code: 0: Tunnel is still closed
 2: Tunnel is now open

 Other: See the list of return codes below.

Example: `"C:\Program Files\Trustway\Trustway IP Protect Client\vpnconf.exe"`
 `/open:TgbTest-TgbTest`

`@echo return_code = %ERRORLEVEL%`

 Pause

5.5.3 /**status**

Syntax: `"[installation_directory]\vpnconf.exe" /status:[TunnelName]`

Usage: Used to get the status of a VPN tunnel from the command line.

Return code: 0: VPN tunnel is closed
 1: VPN tunnel is being opened
 2: VPN tunnel is open
 3: VPN tunnel is being closed
 4: Error while opening a VPN tunnel

 Other: See the list of return codes below.

Example: `"C:\Program Files\Trustway\Trustway IP Protect Client\vpnconf.exe"`
 `/status:TgbTest-TgbTest`

`@echo return_code = %ERRORLEVEL%`

 Pause

5.5.4 /**close**

Syntax: `"[installation_directory]\vpnconf.exe" /close:[TunnelName]`

Usage: Used to close a VPN tunnel from the command line.

Return code: 0: VPN tunnel is closed

 Other: See the list of return codes below.

Example: `"C:\Program Files\Trustway\Trustway IP Protect Client\vpnconf.exe"`
 `/close:TgbTest-TgbTest`

5.5.5 /closeall

Syntax: "[installation_directory]\vpnconf.exe" /closeall

Usage: Used to close all currently open VPN tunnels.

Return code: 0: All VPN tunnels are closed
Other: See the list of return codes below.

Example: "C:\Program Files\Trustway\Trustway IP Protect Client\vpnconf.exe" /closeall

5.6 Restarting

The /resetike option can only be executed if IP Protect Client is already running and not started in TrustedConnect mode.

5.6.1 /resetike

Syntax: "[installation_directory]\vpnconf.exe" /resetike

Usage: Used to restart the IKE service from the command line.

Return code: 0: IKE service has restarted
Other: See the list of return codes below.

Example: "C:\Program Files\Trustway\Trustway IP Protect Client\vpnconf.exe" /resetike

5.7 Codes retours

The command-line options (/open, /close, /status, /closeall, /resetike) may return the following codes:

-1: Cannot execute the command: IP Protect Client is not running yet.

100 to 499: Internal error (contact support).

500: The specified VPN tunnel does not exist (case sensitive!).

501 to 999: Internal error (contact support).

1000 to 1999: Other issue while accessing the VPN tunnel.

1089: No reply from gateway.

1090: The gateway refuses to authenticate the client (IKE_AUTH Failed).

Chapitre 6. Parameters and properties of the MSI installer

6.1 Introduction

The installer of IP Protect Client is in Microsoft Installer (MSI) format. It can be configured using command-line parameters and so-called properties.

To install IP Protect Client, we recommend starting the `MSIEXEC` command line from an admin shell with the `/i` option, `/q` or `/quiet` option as well as any other suitable properties for your deployment.

Exemple

```
msiexec /i [path_to_installer] /q
```

Syntax rules: Options that call for a specific value must be entered without any blank spaces between the option and the value assigned to it. Values that contain blank spaces, such as directory names, must be placed between quotation marks.



For further details on how `msiexec` works and available installation options, refer to the Microsoft documentation: <https://docs.microsoft.com/en-us/windows-server/administration/windows-commands/msiexec>.

6.2 Passing command-line parameters to MSI

6.2.1 /i

Syntax: `msiexec /i [path_to_installer]`

Usage: Installs or updates IP Protect Client software

Example: `msiexec /i "[download_directory]\Trustway_IP_Protect_Client.msi"`

6.2.2 /x

Syntax: `msiexec /x [path_to_installer]`

Usage: Uninstalls IP Protect Client software

Example: `msiexec /x "[download_directory]\Trustway_IP_Protect_Client.msi"`

6.2.3 /q

Syntax: `msiexec /q` or `/quiet`

Usage: Configures the installation or uninstallation in silent mode (no messages or warnings to the user)

Example: `msiexec /i "[download_directory]\Trustway_IP_Protect_Client.msi" /q`

6.2.4 /L*V!

Syntax: `msiexec /L*V! <path_to_log_file>`

Usage: Enables logging and includes a detailed output in the output log file by specifying the location and name of the output log file.

Example: `msiexec /i "[download_directory]\Trustway_IP_Protect_Client.msi" /L*V! "C:\install.log"`

6.3 Installation



«C:\Program Files\Trustway\Trustway IP Protect Client» is the default installation directory.

6.3.1 APPLICATIONROOTDIRECTORY

Syntax: APPLICATIONROOTDIRECTORY=[installation_directory]

Usage: [installation_directory] is the directory where IP Protect Client software is to be installed.

Quotation marks are required before and after [installation_directory], if the directory name contains blank spaces.

Example: `msiexec /i "[download_directory]\Trustway_IP_Protect_Client.msi"
APPLICATIONROOTDIRECTORY="C:\my directory\vpn"`

6.3.2 NOAUTORUN

Syntax: NOAUTORUN=1

Usage: This property is used to not start IP Protect Client (regardless of the mode: **Connection Panel**, **TrustedConnect**) when Windows is started. Default value 0 (automatic startup).

6.4 VPN configuration

6.4.1 TGBCONF_PATH

Syntax: TGBCONF_PATH=[path_to_conf_file]

Usage: Full path to the VPN configuration file to be used for this installation.

6.4.2 TGBCONF_PASSWORD

Syntax: TGBCONF_PASSWORD=[password]

Usage: Password used to protect the VPN configuration entered as a parameter using the TGBCONF_PATH property.

6.5 Activating the license

6.5.1 ACTIVMAIL

Syntax: `ACTIVMAIL=[activation_email]`

Usage: This property is used to configure the e-mail address used to activate the software.

Example: `msiexec /i "[download_directory]\Trustway_IP_Protect_Client.msi"
ACTIVMAIL=salesgroup@company.com`

6.5.2 AUTOACTIV

Syntax: `AUTOACTIV=1`

Usage: This property is used to configure the software so that it is automatically activated. If the value is set to 1, IP Protect Client will attempt to activate automatically:

1. Every time IP Protect Client is started
2. Every time a tunnel is opened

Example: `msiexec /i "[download_directory]\Trustway_IP_Protect_Client.msi"
AUTOACTIV=1`

6.5.3 LICENSE

Syntax: `LICENSE=[license_number]`

Usage: This property is used to configure the license number used to activate the software.

Example: `msiexec /i "[download_directory]\Trustway_IP_Protect_Client.msi"
LICENSE=1234567890ABCDEF12345678`

6.5.4 NOACTIVWIN

Syntax: `NOACTIVWIN=1`

Usage: This property is used to prevent the activation window from being displayed.

It can be combined with the `AUTOACTIV=1` property to deploy a non-activated software on the target user workstations and to automate its activation in an entirely transparent manner for the users.

Please bear in mind that the activation window will ultimately be displayed to the user at the end of the trial period if no activation has been carried out by that date.

6.6 Panneau TrustedConnect

Properties related to the **TrustedConnect Panel** are described below.

6.6.1 USEDIALERBYDEFAULT

Syntax: `USEDIALERBYDEFAULT=1`

Usage: The **TrustedConnect Panel** is used as user interface when this property is set to 1. The **TrustedConnect Panel** will start automatically upon Windows logon, unless the `NOAUTORUN` property is set to 1.

6.6.2 DIALERMINIMIZE

Syntax: `DIALERMINIMIZE=5000`

Usage: This property is used to configure the time delay before the **TrustedConnect Panel** is minimized, when the workstation has been detected as being connected to the trusted network (either physically or through the VPN tunnel).

This time delay is configured in milliseconds.

If the value is set to 0, the feature is disabled: the **TrustedConnect Panel** is no longer automatically minimized.

If no time delay is configured, the default time delay is 2000 ms (2 seconds).

6.6.3 DIALERDEFS

Syntax: `DIALERDEFS=01000000`

Usage: This property is used to configure the type of minimization when the minimization time delay is configured: the **TrustedConnect Panel** can be minimized to the taskbar or to the notification area (systray or system tray).

To minimize the **TrustedConnect Panel** to the taskbar, enter the value `01000000`.

If the property is not specified, the **TrustedConnect Panel** is minimized to the notification area (systray) by default.

Reminder: The time delay and minimization type only apply to automatic minimization of the **TrustedConnect Panel** when a connection to the trusted network is detected.

6.6.4 VPNLOGPURGE

Syntax: `VPNLOGPURGE=3`

Usage: This property is used to configure the number of days log files are kept.

The value is expressed in number of days.

The default value is 10 days.

If the value is set to 0, the purging of log files is disabled.

6.6.5 TOKENOUTHANDLE

Syntax: TOKENOUTHANDLE=30

Usage: This property is used to configure the behavior of IP Protect Client when the token is removed or the smart card is removed from the reader while a VPN tunnel is open.

The following three modes are available for this event:

- Mode A: The tunnel is closed immediately as soon as the token/smart card is removed (default behavior).
- Mode B: The tunnel remains open for the configured time period (only available with the **TrustedConnect Panel**).
- Mode C: The tunnel remains open indefinitely.
- Note: In mode C, if the token or smart card is required to open the VPN tunnel, the next renegotiation will fail.

By default, if nothing has been configured, mode A is enabled.

TOKENOUTHANDLE=0 => Tunnel is not closed when the token/smart card is removed (mode C)

TOKENOUTHANDLE=N => With the **TrustedConnect Panel**, time in seconds before the tunnel is closed once the token/smart card is removed (mode B) With the **Connection Panel**, the tunnel remains open indefinitely (mode C).

6.7 Tokens and smart cards

6.7.1 SMARTCARDROAMING

Syntax: SMARTCARDROAMING=1

Usage: This property specifies the smart card reader or token to be used:

Undefined Smart card reader or token configured in the VPN configuration
The subject of the certificate is in the VPN configuration.

- 1 Smart card reader or token configured in the VPN configuration
The subject of the certificate in the VPN configuration is not taken into account.
- 2 Smart card reader or token configured in the `vpnconf.ini` file.
The subject of the certificate is in the VPN configuration.
- 3 Smart card reader or token configured in the `vpnconf.ini` file.
The subject of the certificate in the VPN configuration is not taken into account.
- 4 1st token or smart card inserted
The subject of the certificate is in the VPN configuration.
- 5 1st token or smart card inserted
The subject of the certificate in the VPN configuration is not taken into account.

6.7.2 PKCS11ONLY

Syntax: PKCS11ONLY=1

Usage: This property specifies the smart card or token access mode:

Undefined The CNG mode (Cryptography API: Next Generation) is used (default value)

- 1 Forces use of PKCS#11 mode

6.7.3 KEYUSAGE

Syntax: KEYUSAGE=1

Usage: This property is used to select a certificate based on its “key usage” field:

0 or undefined Certificate is not selected based on “key usage” field.

- 1 Certificate is selected based on “key usage” field whose attribute `digitalSignature=1`.
- 2 Certificate is selected based on “key usage” field whose attributes `digitalSignature=1` and `keyEncipherment=1`.
- 3 Certificate is selected based on “key usage” field whose attributes `digitalSignature=1` and `clientAuthentication=1`.

Caution: When this value is used, only the certificate with the longest validity date is displayed and used (regardless of whether the SMARTCARDROAMING property is enabled).



When the value of the KEYUSAGE property is set to 2 or 3, the **Only authentication certificate** check box on the **PKI Options** tab is grayed out, refer to IP Protect Client “Administrator’s Guide”.

6.7.4 NOCACERTREQ

Syntax: NOCACERTREQ=1

Usage: This property configures IP Protect Client to manage various client/gateway certification authorities (CAs). It must be specified if the client and gateway certificates come from different CAs (this can also be done using the software interface).

6.7.5 PKICHECK

Syntax: `PKICHECK=1`

Usage: This property is used to specify the way in which the IP Protect gateway certificate is checked:

- 0 or undefined The VPN gateway certificate is not checked.
- 1 The following characteristics of the IP Protect gateway certificate are checked: validity date, certificate chain, signature, and CRL of each certificate in the certificate chain.
- 2 The following characteristics of the IP Protect gateway certificate are checked: validity date, certificate chain, signature of each certificate in the certificate chain (not the CRLs)—default value.
- 3 Same as 1.

6.7.6 X509DIRECTORYSTRING

Syntax: `X509DIRECTORYSTRING=14`

Usage: This property specifies the expected identifier for the Remote ID:

- Undefined Expected identifier type: `teletexString`
- 14 Expected identifier type: `teletexString`
- 13 Expected identifier type: `printableString`
- 1C Expected identifier type: `universalString`
- 0C Expected identifier type: `utf8String`
- 1E Expected identifier type: `bmpString`



The characters “0x” must no longer be prefixed to the value of the `X509DirectoryString` property.

6.7.7 MACHINESTORE

Syntax: `MACHINESTORE=1`

Usage: This property is used to enable the use of the machine's certificate store instead of the user's. If it is not defined, the user's store will be used by default.

6.7.8 DNPATTERN

Syntax: `DNPATTERN=[text]`

Usage: This property is used to specify the certificate to be used: when specified, IP Protect Client searches for the certificate whose subject contains the `[text]` pattern on the token, smart card or in the Windows certificate store.

If this property is not specified, IP ProtectClient searches for the first certificate that meets the other characteristics configured.

6.7.9 NOPINCODE

Syntax: `NOPINCODE=1`

Usage: This property is used to prevent a PIN code from being requested for tokens that do not require it. For example, this is the case with Ercom's microSD.

6.7.10 PINTIMEOUT

Syntax: `PINTIMEOUT=120`

Usage: This property specifies a timeout value in seconds that is used to automatically close the PIN code entry window when the timeout has expired.

6.8 General parameters

6.8.1 MENUITEM

Syntax: `MENUITEM=[0..31]`

Usage: This property is used to determine which items appear in the taskbar menu.

The value assigned to the `MENUITEM` property is a bit field, in which every bit represents one item of the taskbar menu:

- 1 (1st bit) ⇨ **Quit**
- 2 (2nd bit) ⇨ **Connection Panel**
- 4 (3rd bit) ⇨ **Console**
- 8 (4th bit) ⇨ **Save and Apply** (obsolete since version 5)
- 16 (5th bit) ⇨ **Configuration Panel**

By default, all the menu items are displayed: value = 31 (1F hex).

Example: `MENUITEM=3`

Will only display the **Connection Panel** and **Quit** items.

- 0 The taskbar menu is not displayed
 - 1 Displays **Quit**
 - 2 Displays **Connection Panel**
 - 3 Displays **Connection Panel** and **Quit**
 - 4 Displays **Console**
 - 5 Displays **Console** and **Quit**
 - 6 Displays **Connection Panel** and **Console**
 - 7 Displays **Connection Panel**, **Console** and **Quit**
- Etc.

6.8.2 RESTRICTCONFADMIN

Syntax: `RESTRICTCONFADMIN=0`

Usage: This property is used to restrict access to the **Configuration Panel** to administrators only. By default, only administrators can access the **Configuration Panel**.

6.8.3 NOSPLITTUNNELING

Syntax: `NOSPLITTUNNELING=1`

Usage: This property disables the default route of the physical interface when the tunnel is established. Only applies to tunnels configured with “All traffic through the tunnel”.

6.8.4 NOSPLITDNS

Syntax: `NOSPLITDNS=1`

Usage: This property ensures that the DNSs of the virtual interface also apply to the physical interface when the tunnel is established. Only applies to tunnels configured with “All traffic through the tunnel”.

6.8.5 ROUTINGMODE

Syntax: `ROUTINGMODE=1`

Usage: This property is used to prevent local traffic coming from the physical interface from going through the tunnel. Only the traffic coming from the virtual interface will be allowed through.

6.8.6 FORCELOCALTRAFFICTOTUNNEL

Syntax: FORCELOCALTRAFFICTOTUNNEL=1

Usage: In “all through tunnel” mode, this property is used to route the local traffic coming from the physical interface through the tunnel. If this property is not included (default setting), the mode will not be enabled.

0 or undefined Mode disabled

1 Mode enabled

6.8.7 IKESTART

Syntax: `IKESTART=1`

Usage: This property is used to start the IKE service independently of the software's interface. If this property is not included (default setting), the mode will not be enabled.

Undefined The mode is not enabled

1 The mode is enabled

Other value The mode is not enabled

6.8.8 SIGNFILE

Syntax: `SIGNFILE=1`

Usage: This property is used to force the integrity hash check for the VPN configuration file.

The default value is 0 (i.e. disabled).

6.8.9 GINABEHAVES

Syntax: `GINABEHAVES=1`

Usage: In its default behavior, the GINA mode displays a panel on the Windows logon screen that allows you to open one or more tunnels before logging on to Windows. However, this panel will not be displayed on the lock screen when the user has locked the session.

This property is used to make the GINA mode panel visible on the lock screen.

The default value is 0.

6.9 Logs

6.9.1 SYSTEMLOGOUTPUT

Syntax: `SYSTEMLOGOUTPUT=7`

Usage: This property is used to select the output of administrator logs. The outputs can be combined, e.g. use the value 7 to combine the 3 outputs.

- 0 No system logs
- 1 Log files
- 2 Syslog server
- 4 Windows event observer

6.9.2 SYSTEMLOGSYSLOGSERVER

Syntax: `SYSTEMLOGSERVER=syslogserver.company.com`

Usage: This property is used to specify the machine's IP address or name to syslog servers.

6.9.3 SYSTEMLOGSYSLOGPORT

Syntax: `SYSTEMLOGSYSLOGPORT=5514`

Usage: This property is used to specify the port of the machine for syslog servers. The default port is 514.

Chapitre 7. vpnsetup.ini file

7.1 Introduction

The `vpnsetup.ini` file is used to configure the installation of Trustway IP Protect Client from a file, rather than passing command-line properties to MSI.



Due to Microsoft MSI installer constraints, as opposed to previous versions of the software, the `vpnsetup.ini` file may no longer be located in the same directory as the installer, but should be in the `C:\Windows` folder.

The `vpnsetup.ini` file is used to define the following parameters:

- Software activation parameters
- Parameters of the **TrustedConnect Panel**
- PKI parameters for token, smart card, and certificate management
- General operating parameters
- System log parameters
- Other parameters

The names of the parameters for the `vpnsetup.ini` file are identical to those of the MSI installer's properties (see section Parameters and properties of the MSI installer), the only difference being that they are not case-sensitive (no difference is made between lowercase and uppercase characters).

It can be edited using a standard text editor (e.g. Notepad). Just like any other ini file, it is organized into sections. The parameters must be entered in the appropriate section, as specified below.



The MSI installer's installation and VPN configuration properties, namely `APPLICATIONROOTDIRECTORY`, `TGBCONF_ADMINPASSWORD`, `NOAUTORUN`, `TGBCONF_PATH`, and `TGBCONF_PASSWORD` have no equivalent in the `vpnsetup.ini` file.

7.2 [Activation] section

The `[Activation]` section uses the following parameters :

- `ActivMail` (see section 6.5.1)
- `AutoActiv` (see section 6.5.2)
- `License` (see section 6.5.3)
- `NoActivWin` (see section 6.5.4)

7.3 [Dialer] section

The `[Dialer]` section uses the following parameters :

- `UseDialerByDefault` (see section 6.6.1)
- `DialerMinimize` (see section 6.6.2)
- `DialerDefs` (see section 6.6.3)
- `VpnLogPurge` (see section 6.6.4)
- `TokenOutHandle` (see section 6.6.5)
- `GinaBehaves` (see section 6.8.9)

7.4 [PKIOptions] section

The parameters defined in the `[PKIOptions]` section are used to specify how the software should use smart cards, tokens, and certificates:

- `SmartcardRoaming` (see section 6.7.1)
- `PKCS11Only` (see section 6.7.2)
- `KeyUsage` (see section 6.7.3)
- `NoCACertReq` (see section 6.7.4)
- `PKICheck` (see section 6.7.5)
- `X509DirectoryString` (see section 6.7.6)
- `MachineStore` (see section 6.7.7)
- `DnPattern` (see section 6.7.8)

7.5 [AddRegKey] section

The `[AddRegKey]` section is used to define the general operating parameters:

- `NoPinCode` (see section 6.7.9)
- `PinTimeOut` (see section 6.7.10)
- `MenuItem` (see section 6.8.1)
- `RestrictConfAdmin` (see section 6.8.2)
- `NoSplitTunneling` (see section 6.8.3)
- `NoSplitDNS` (see section 6.8.4)
- `ForceLocalTrafficToTunnel` (see section 6.8.6)
- `IkeStart` (see section 6.8.7)

7.6 [Config] section

The `[Config]` section uses the following parameter:

- `SignFile` (see section 6.8.8)

7.7 [Logs]section

The `[Logs]` section is used to define options for system logs. This section uses the following parameters:

- `SystemLogOutput` (see section 6.9.1)
- `SystemLogSyslogServer` (see section 6.9.2)
- `SystemLogSyslogPort` (see section 6.9.3)

7.8 [VirtMDriver]section

The `[VirtMDriver]` section uses the following parameter:

- `RoutingMode` (see section 6.8.5)

7.9 Sample vpnsetup.ini file

```
[Activation]
activemail=john.doe@company.com
AutoActiv=1
License=123456-123456-123456
NoActivWin=1

[Dialer]
UseDialerByDefault=1
DialerMinimize=5000
DialerDefs=01000000
VPNLogPurge=3
TokenOutHandle=30
GINABEHAVES=1

[PKIOptions]
PKICheck=1
SmartcardRoaming=1
NoCACertReq=0
KeyUsage=1
PKCS11Only=1
X509DirectoryString=14
DnPattern=company
MachineStore=1

[AddRegKey]
ForceLocalTrafficToTunnel=1
IkeStart=1
pintimeout=120
NoPinCode=1
MenuItem=4
RestrictConfAdmin=1
NoSplitTunneling=1
NoSplitDNS=1

[Config]
SignFile=0

[VirtMDriver]
RoutingMode=1

[Logs]
SystemLogOutput=7
SystemLogSyslogServer=syslogserver.company.com
SystemLogSyslogPort=5514
```

Chapitre 8. Support

In the event of a problem with one of our products, or for any question relating to them, the means of accessing Trustway support are specified below.

There are now two distinct ways:

1. « SOL » (Support On Line), for the demands others than opening support tickets:

- Download different versions of Trustway's applications
- Access to technical information (Manual and BLL)
- Access from this website: <http://support.bull.com/ols>
- Login & Password is obtained on first connection by providing a serial number (and zip code) of a Trustway hardware under support contract
- If the hardware is no longer under contract, the login is deleted. The registration procedure must then be repeated once the contract has been renewed
- Follow the website <http://support.bull.com/ols/online/calls/new-subscription> for help with the first connection.

2. « A-Smile » (Previously known as « Bull Tickets ») to report and track issues and problems:

- Access via " <https://tickets.bull.com/otrs/customer.pl>
- Login : your e-mail address in minuscules
- Password : obtained during the first connection via the contact form or through your support contacts (srv.support-trustway@atos.net). The password can be retrieved later by clicking on "forgotten password".
- For more details on the use of « A-Smile », refer to the instructions for use [mode-operat-client-fr-V5.4.4.pdf](#)
- Specify when opening the ticket that it is a Trustway product.

You can also open a ticket via the CAU (Centre d'Appel Unique) by calling the following number: 08 20 08 20 00.

Do not hesitate to contact us using the support email address srv.support-trustway@atos.net.

To open a ticket, we recommend that you use the A-Smile application.

Trustway Products Support Team
BULL S.A.S., An Atos Compagny
Rue Jean Jaurès - BP 68

78340 Les Clayes Sous-Bois - FRANCE

[Visit Trustway Products](#)