



TheGreenBow VPN Client

Token Configuration Guide

ANTS Smartcard

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1 Introduction

TheGreenBow VPN Client can take into account automatically a wide range of tokens or smartcards.

The list of qualified and supported token with TheGreenBow VPN Client is available at:

http://www.thegreenbow.com/vpn/vpn_token.html

TheGreenBow VPN Client also allows the use of token which are not automatically recognized by the software.

These new tokens just have to be configured in a configuration file called "vpnconf.ini".

The "vpnconf.ini" configuration file must be located in the software installation directory.

For further information about the way the token can be configured with TheGreenBow VPN Client, see also

our Token Configuration Guide available at http://www.thegreenbow.com/vpn/vpn_token.html

This document describes how to configure TheGreenBow VPN Client to use an ANTS Smartcard from "AGENCE NATIONALE DES TITRES SÉCURISÉS"

2 General terminology (CSP, PKCS11, ATR)

Two modes of access to tokens are defined: CSP and PKCS11.

CSP is the "Cryptographic Service Provider" provided by Microsoft Windows. This mode doesn't require additional configuration steps in the VPN Client. However not all the tokens support that mode.

PKCS11 is standardized API to access token. This mode requires a PKCS11 DLL provided by the manufacturer and this DLL has to be configured in the VPN Client. Usually all tokens are supposed to be PKCS11 compatible and the manufacturer provides the DLL through a middleware package to be installed on the computer.

ATR means "Answer To Reset" but is actually a specific identifier returned by any token or smartcard. When the ATR is known by the VPN client, the PKCS11 DLL doesn't have to be configured. When the ATR is not known by the VPN client, a vpnconf.ini file is required to use the token or smartcard.

3 CSP Compatibility

This smartcard is not compatible with CSP mode.

4 PKCS11 Compatibility

The ANTS smartcard works in PKCS11 mode. The ANTS Middleware has to be installed (usually `Middleware_ANTs_xYY_vx.y.z.msi`).

In VPN Client, the "Pkcs11 Only" checkbox needs to be ticked in "PKI Options" dialog box.

For 6.4x version of the VPN Client, a `vpnconf.ini` file is required (see section 5).

Beginning with 6.5x version, the ATR is automatically detected. For IKEv1 the `VpnConf.ini` (see section 5) is still required (or alternatively the "Pkcs11Middleware" registry key, see section 6). For IKEv2 and SSL, the smartcard could be used directly after the ANTS middleware and VPN Client are installed with no additional configuration.

5 "vpnconf.ini" file configuration

5.1 On Windows 32 bits

```
[3B:7F:18:00:00:00:31:B8:64:50:23:EC:C1:73:94:01:80:82:90:00]
mask="FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF"
sname="IAS ECC"
manufacturer="ANTS"
pkcs11DllName="iasP11.dll"
dllpath="C:\windows\system32\iasP11.dll"
```

5.2 On Windows 64 bits

```
[3B:7F:18:00:00:00:31:B8:64:50:23:EC:C1:73:94:01:80:82:90:00]
mask="FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF"
sname="IAS ECC"
manufacturer="ANTS"
pkcs11DllName="iasP11.dll"
dllpath="C:\windows\syswow64\iasP11.dll"
```

6 Registry files for IKEv1

6.1 On Windows 32 bits

Windows Registry Editor Version 5.00

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\App Paths\Tgblke.exe]
"Pkcs11Middleware"="C:\\Windows\\system32\\iasP11.dll"
```

6.2 On Windows 64 bits

Windows Registry Editor Version 5.00

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\App Paths\Tgblke.exe]
"Pkcs11Middleware"="C:\\Windows\\SysWOW64\\iasP11.dll"
```

7 Contacts

News and updates on TheGreenBow web site: www.thegreenbow.com

Technical support by email at: support@thegreenbow.com

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TheGreenBow Security Software