

TheGreenBow VPN Client

Yubikey Neo configuration guide

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1 Introduction

TheGreenBow VPN Client software is designed to work with certificates for establishing a VPN tunnel to a remote IPsec gateway. The certificates can be stored on smartcards with PIN code access protection. This document describes how to use Yubikey Neo with TheGreenBow VPN Client.

This document explains how to configure the Yubikey Neo token and TheGreenBow VPN 6.1x version.

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

Main information about Yubikey Neo tokens can be read from Yubico website :

<https://www.yubico.com/products/yubikey-hardware/yubikey-neo/>

OpenSC PKCS#11 middleware can be used. This software can be downloaded from :

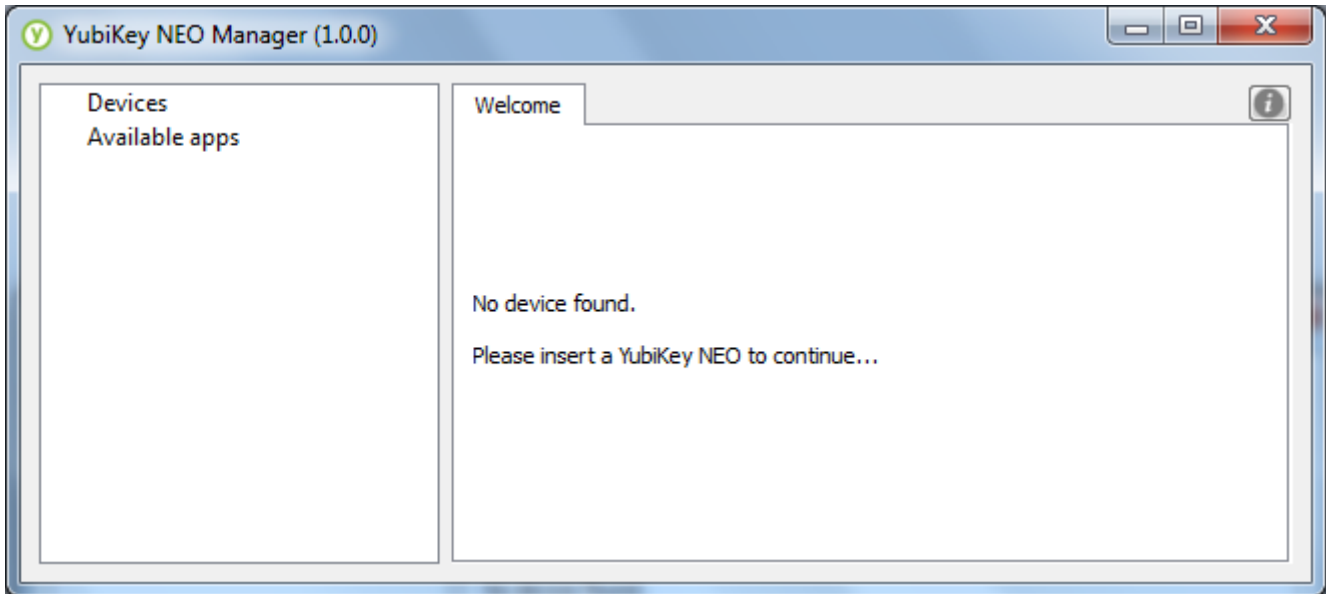
<https://github.com/OpenSC/OpenSC/wiki>

2 Yubikey Neo Manager

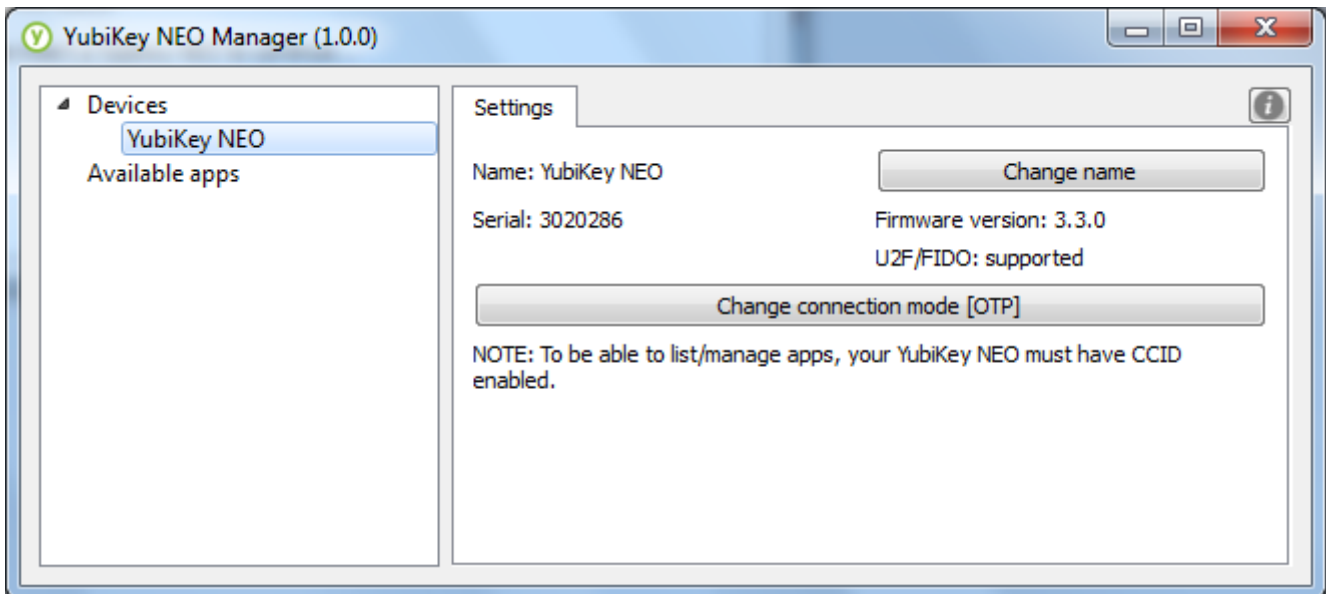
CCID mode must be enabled for Yubikey Neo token otherwise TheGreenBow VPN Client would not be able to access to any certificate stored on the token. Yubikey Neo manager can be downloaded from Yubico website :

<https://developers.yubico.com/yubikey-neo-manager/>

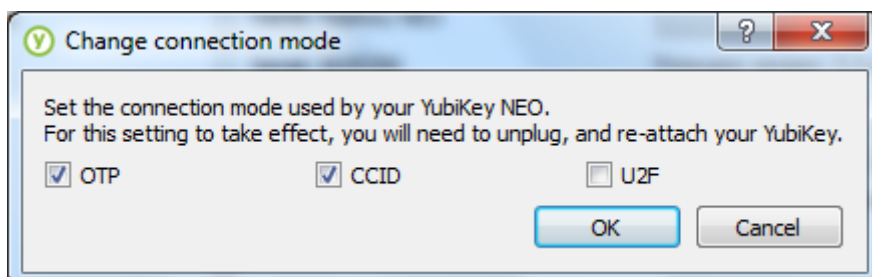
Yubikey Neo Manager is used for changing connection Mode.



After inserting the token the following window is displayed.

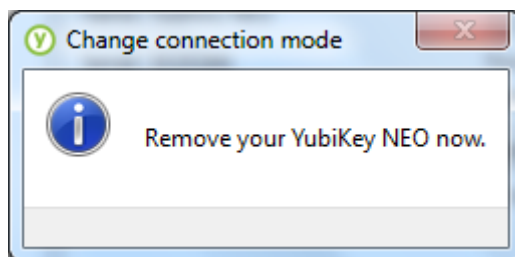


If CCID mode is not enabled, click on "Change connection Mode [OTP]" and select "CCID".

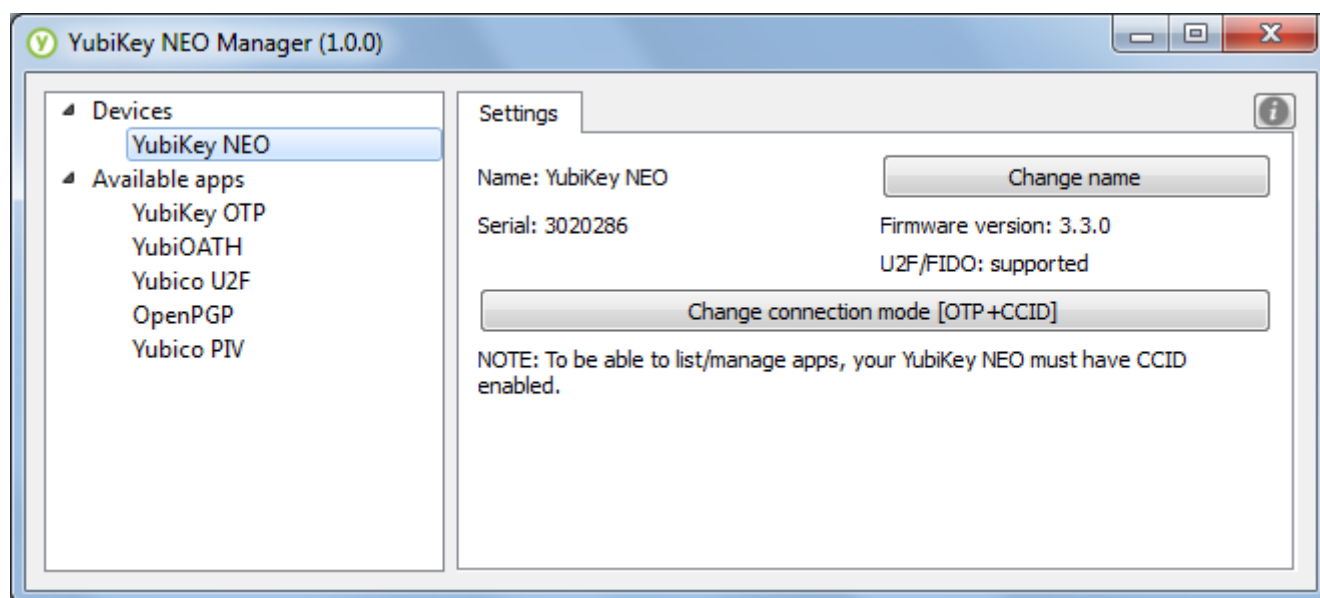


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Yubikey token must be removed and replugged again.



New applications are then available.



3 OpenSC PKCS#11 middleware

A PKCS#11 middleware is needed for using the Yubikey Neo hardware. OpenSC, an opensource library, can be used. The software can be downloaded from:

<https://github.com/OpenSC/OpenSC/wiki>

A 32 bits version must be used even with a 64 bits OS.

A file named `vpnconf.ini` must be created in the same directory (`C:\Program Files (x86)\TheGreenBow\TheGreenBow VPN` or `C:\Program Files\TheGreenBow\TheGreenBow VPN`) than `vpnconf.exe` and `tgbike.exe`.

The "`vpnconf.ini`" file shall have the following content:

```
[3B:FC:13:00:00:81:31:FE:15:59:75:62:69:6B:65:79:4E:45:4F:72:33:E1]
mask= FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:FF
scname="Yubikey Neo"
manufacturer="Yubico"
pkcs11DllName="opensc-pkcs11.dll"
dllpath="C:\Windows\SysWOW64\opensc-pkcs11.dll"
```

Parameter "`dllpath`" must be changed according with the real path to the OpenSC DLL.

Registry key "`Pkcs11Only`" must be also added.

A registry file shall have the following content:

Windows Registry Editor Version 5.00

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\CurrentVersion\App Paths\TgbIke.exe]
"Pkcs11Only"=hex:01
```

4 Adding a certificate to the token

Certificate can be imported to the token with Yubico PIV tool.

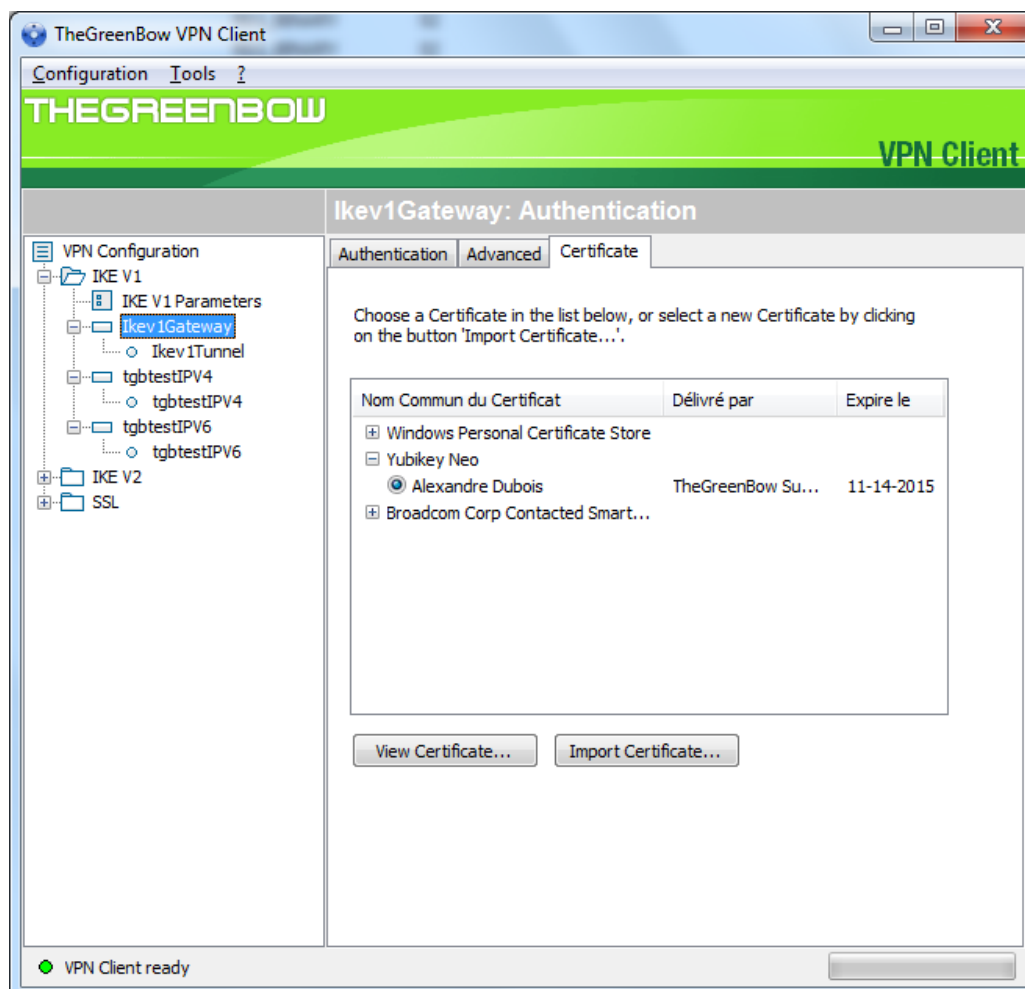
<https://developers.yubico.com/yubico-piv-tool/>

Yubico PIV Tool is command line software. For importing a PKCS#12 file, try the following command line with 4101E62211B7B011.p12 the PKCS#12 file and “thegreenbow” password:

```
yubico-piv-tool.exe -s 9c -a import-cert -a import-key -i 4101E62211B7B011.p12 -K PKCS12 -p thegreenbow
```

5 TheGreenBow VPN client interface

On TheGreenBow VPN client, certificate can be selected in the “certificate” tab. This is displayed only if “certificate” mode is selected in the “Authentication” tab.



6 Support

Information and update are available at: www.thegreenbow.com

Technical support via email at: support@thegreenbow.com

Sales via email at: sales@thegreenbow.com

Secure, Strong, Simple

TheGreenBow Security Software