



# **Santander Group VPN**

## **Windows PC Configuration**

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## 1 Scope and prerequisites.

The purpose of this document is to guide third-party users from Santander Group to set up their computers and achieve a proper connection with our infrastructure.

### 1.1 Administrative prerequisites.

- Customer needs a valid user account in an Active Directory.
- The user account needs to be configured in a second factor authorization method (currently we support Azure MFA)

### 1.2 User machine prerequisites.

Windows PC:

- Windows 8.
  - Any updated Antivirus Software.
  - Microsoft latest patches installed.
- Windows 10.
  - Any updated Antivirus Software.
  - Microsoft latest patches installed.

## 2 Software provisioning.

With this document, customer should receive link of Sharepoint which contains these files:

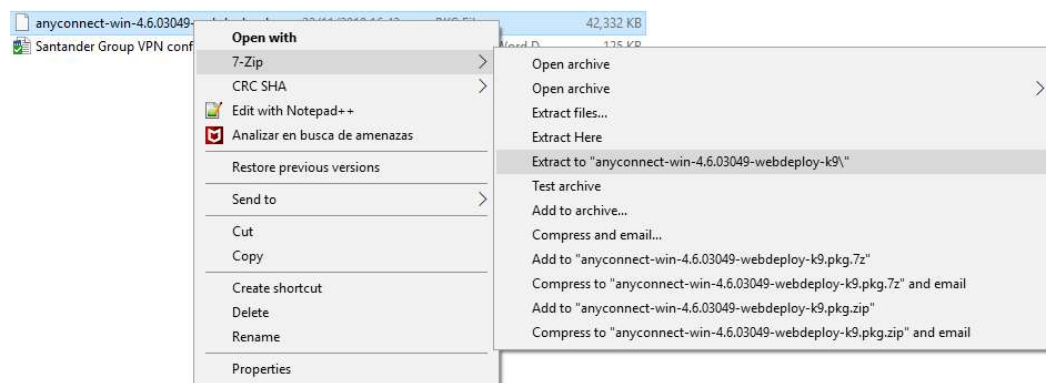
- XML file with VPN connection data.
- Public certificates from Entrust.
- Cisco software "anyconnect-win-4.10.01075-webdeploy-k9.pk"

### 3 Anyconnect VPN setup.

#### 3.1 Software installation.

First, we need to extract the software "anyconnect-win-4.10.01075-webdeploy-k9.pk":

Right click on the file and extract it to a folder:



Then, we navigate into anyconnect-win-4.10.01075-webdeploy-k9\binaries folder:

any-k9 > binaries

Name	Date modified	Type	Size
acisensa.log	28/02/2019 17:09	Text Document	26 KB
anyconnectprof.sgz	05/09/2018 16:45	SGZ File	2,046 KB
anyconnect-win-4.6.03049-amp-webdeploy-k9.exe	05/09/2018 16:48	Application	1,050 KB
anyconnect-win-4.6.03049-core-vpn-webdeploy-k9.exe	05/09/2018 17:23	Application	5,598 KB
anyconnect-win-4.6.03049-dart-webdeploy-k9.msi	05/09/2018 17:32	Windows Installer ...	3,037 KB
anyconnect-win-4.6.03049-gina-webdeploy-k9.exe	05/09/2018 17:31	Application	1,413 KB
anyconnect-win-4.6.03049-iseposture-webdeploy-k9.msi	05/09/2018 17:12	Windows Installer ...	2,589 KB
anyconnect-win-4.6.03049-nam-webdeploy-k9.msi	05/09/2018 16:57	Windows Installer ...	4,652 KB
anyconnect-win-4.6.03049-nvm-webdeploy-k9.exe	05/09/2018 17:26	Application	1,656 KB
anyconnect-win-4.6.03049-posture-webdeploy-k9.msi	05/09/2018 17:15	Windows Installer ...	6,896 KB
anyconnect-win-4.6.03049-umbrella-webdeploy-k9.exe	05/09/2018 17:35	Application	2,172 KB
anyconnect-win-4.6.03049-websecurity-webdeploy-k9.exe	05/09/2018 17:26	Application	1,673 KB
generator.jar	05/09/2018 16:42	Executable Jar File	25 KB

In this folder we have all the software needed. The VPN needs these 3 installations:

anyconnect-win-4.10.01075-core-vpn-webdeploy-k9.msi

anyconnect-win-4.10.01075-posture-webdeploy-k9.msi

anyconnect-win-4.10.01075-iseposture-webdeploy-k9.msi

They have to be installed by default and in the same order:

1. anyconnect-win-4.10.01075-core-vpn-webdeploy-k9.msi
2. anyconnect-win-4.10.01075-posture-webdeploy-k9.msi
3. anyconnect-win-4.10.01075-iseposture-webdeploy-k9.msi

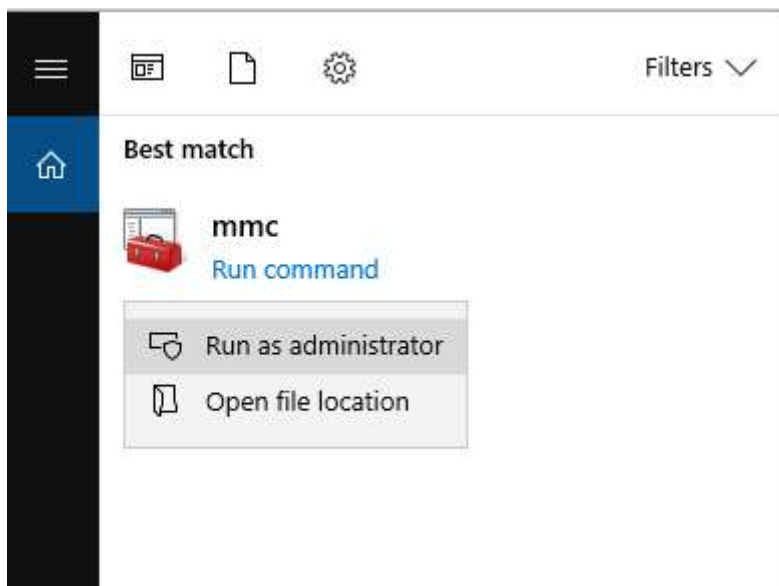
### 3.2 Certificate installation.

Santander VPN infrastructure is verified through Entrust Private SSL infrastructure:

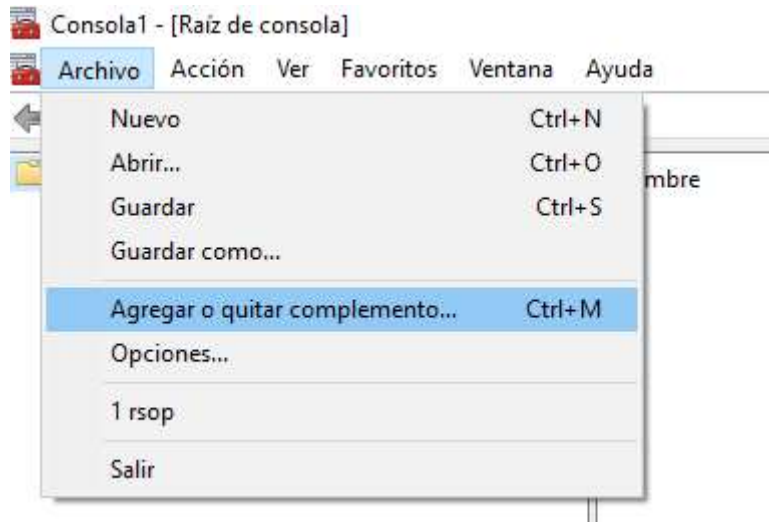
<https://www.entrustdatacard.com/products/ssl-certificates/private-ssl>

So, the customer PC needs to trust them in order to work. The certificates provided among this document must be installed under "Trusted Root Certificate Authorities":

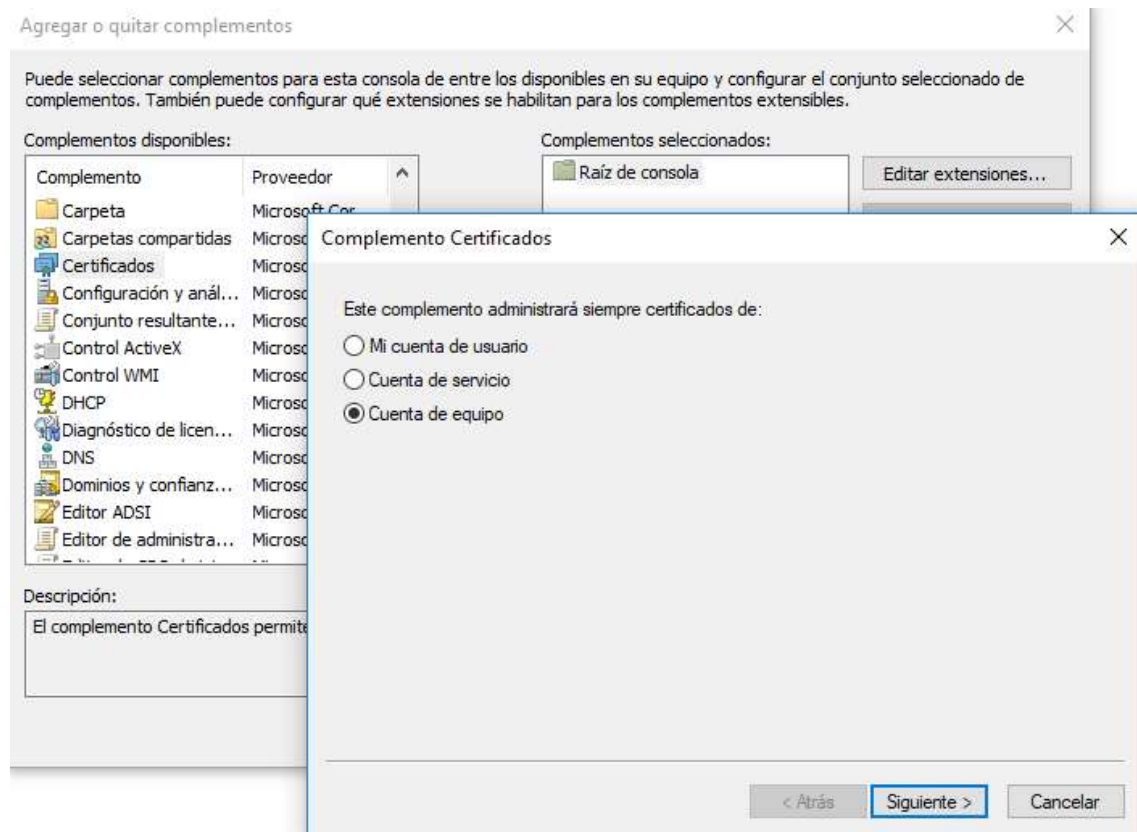
Run mmc.exe as administrator:



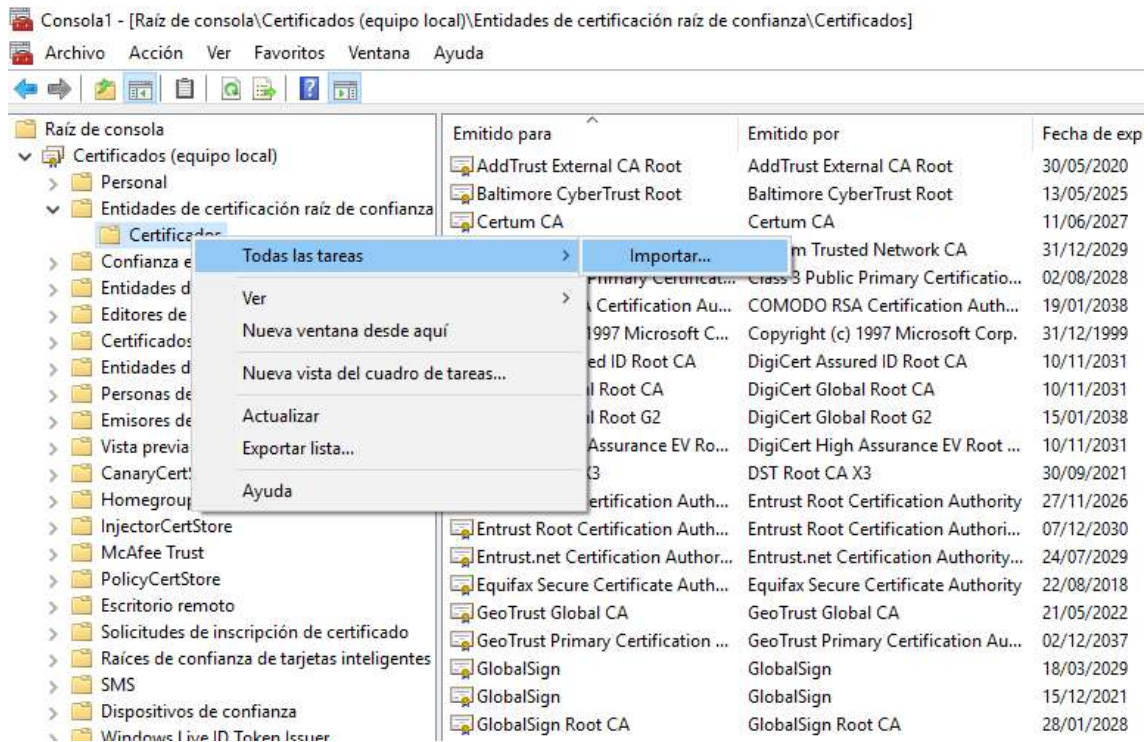
Click on File-> add or remove snap-in (Control+M):



And add "certificates" snap-in, local machine account:



In the console menu, we navigate into “Trusted Root Certificates Authorities”, right click, import:



And select the provided certificates. Once both certificates are installed, we need to reboot the PC.

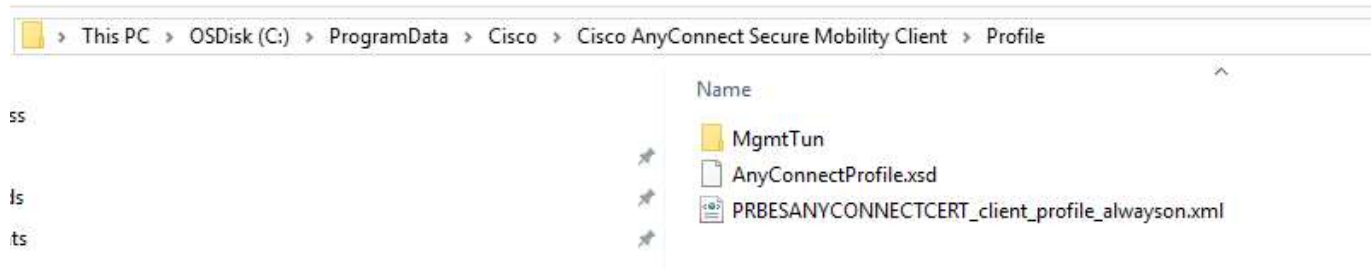
### 3.3 Anyconnect parametrization.

After Anyconnect client installation a new folder is available on the computer:

%programdata%\cisco\Cisco AnyConnect Secure Mobility Client\Profile\

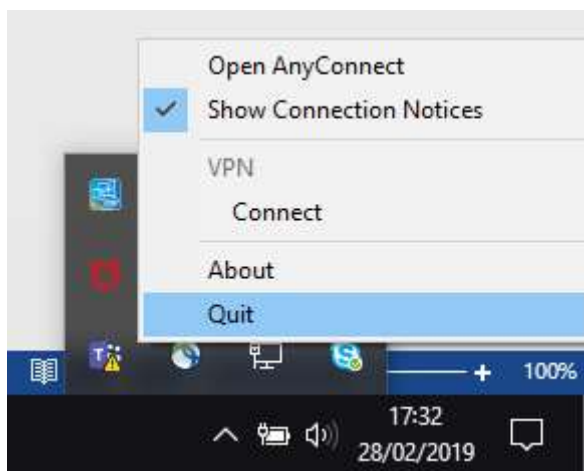
In this folder, we should copy the XML file.



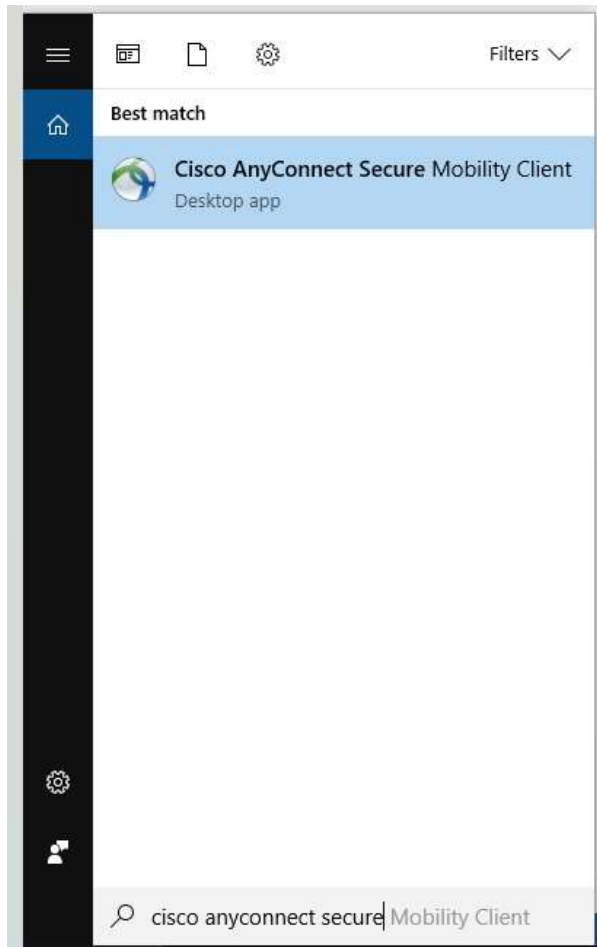


Then, restart Anyconnect software:

On windows taskbar, right click on  icon, select "quit":



Then, we launch again the Anyconnect client:



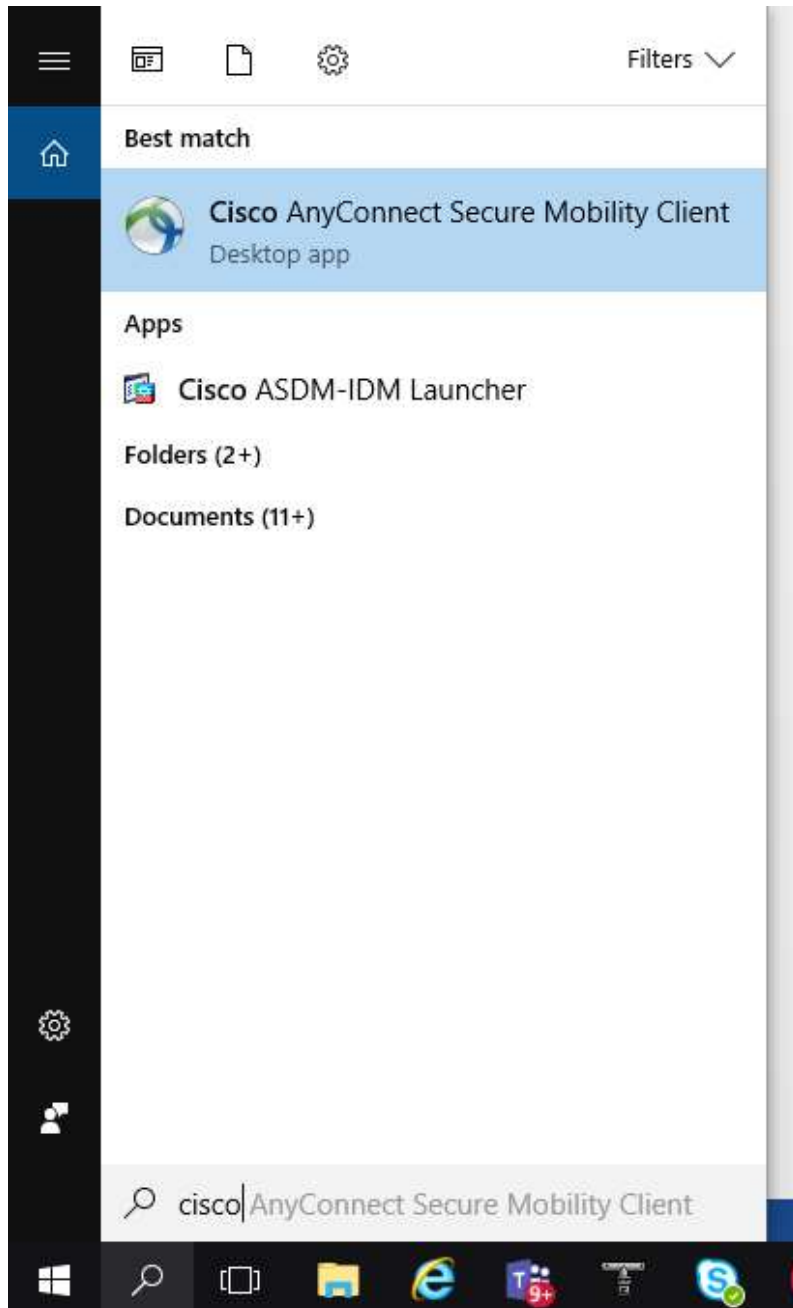
Now, anyconnect is ready to connect\*:



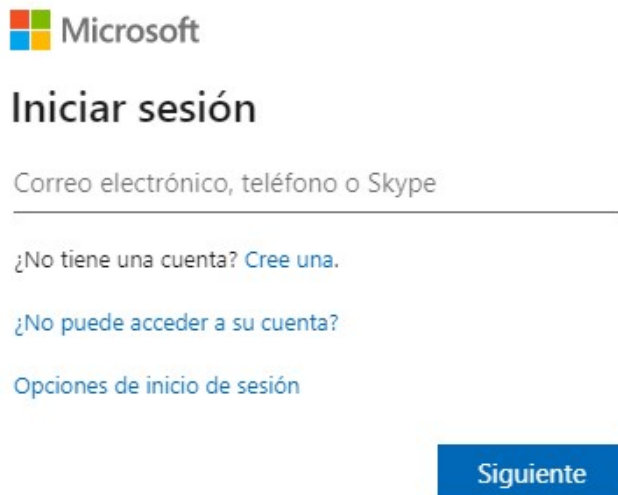
\*The name of the profile (Third\_parties\_VPN) could be different

## 4 VPN User experience.

First, we need to start the client:



Click on connect, in your client and you will be redirected to Microsoft login web page where you will be requested your UPN login



The screenshot shows the Microsoft login interface. At the top is the Microsoft logo. Below it is the heading 'Iniciar sesión'. A text input field is labeled 'Correo electrónico, teléfono o Skype'. Below the input field are three links: '¿No tiene una cuenta? Cree una.', '¿No puede acceder a su cuenta?', and 'Opciones de inicio de sesión'. At the bottom of the form is a blue button labeled 'Siguiente'.

If you already have configured your 2FA it will be also requested, if not, review the on boarding document: Authentication procedure with Microsoft Azure MFA

Once fulfilled and logged into the vpn the Posture starts to analyze if the computer has antivirus and Patches:



And, when finished, it remains connected to the VPN.