# **Disable Unwanted Secure Client Modules for macOS and Windows**

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### Introduction

This document describes the installation process for Cisco Secure Client and how to choose from the optional security modules.

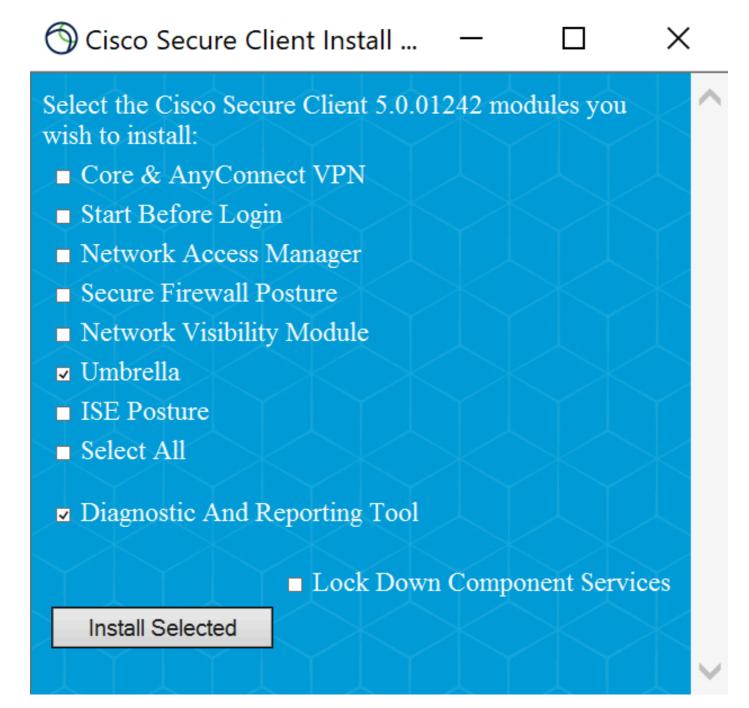
# **Overview**

Secure Client contains a number of optional security modules including Umbrella. Note that at minimum both the Core VPN module\* and Umbrella module must be installed.

\*VPN functionality can be optionally disabled during installation but the module must still be installed.

# **Manual Installation**

During manual installation the user can simply select the desired modules\* during the installation wizard.



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#### Windows Unattended Installation

On Windows the pre-deployment package contains different MSI files for each module. Therefore, simply install the desired MSI files (Core + Umbrella).

Details in the article Cisco Secure Client (Windows) - Automated deployment tutorial

# **Mac OSX Unattended Installation**

When run in an unattended way the pre-deployment package for Mac OSX installs all Secure Client

<sup>\*</sup> Umbrella must be selected. If "Core & AnyConnect VPN" is disabled then VPN functionality is disabled but the Core VPN module itself is still installed because it provides underlying drivers for Umbrella.

modules. When deployed via automation tools it is likely that other Secure Client modules are installed which could be unwanted. In this scenario, the pre-deployment package must be extracted and customised on MAC endpoints so as to only install the desired modules.

#### **Overview**

The instructions comprise of these main steps:

- 1. Create a writeable .dmg package.
- 2. Create an **install\_choices.xml** to use during installation to control which modules are installed.
- 3. Add a custom **ACTransforms.xml** file to the package which disables the VPN functionality.
- 4. Add your Umbrella profile (**OrgInfo.json**) to the package which allows the client to register.
- 5. Convert the package back to a read-only DMG.
- 6. Install the package via CLI, supplying the custom install\_choices.xml file.

### Step 1. Convert the .dmg Package

Convert the .dmg package from a read-only state to read-write, with the use of Disk Utility or hdiutil as shown in the image.

hdiutil convert cisco-secure-client-macos-<version>-predeploy-k9.dmg -format UDRW -o csc-writeable.dmg

```
user@users-Mac Downloads % hdiutil convert cisco-secure-client-macos-5.1.2.42-predeploy-k9.dmg -format UDRW -o csc-writeable.dmg
Reading Protective Master boot Record (MBR . 0)...
Reading GPT Header (Primary GPT Header : 1)...
Reading GPT Partition Data (Primary GPT Table : 2)...
Reading (Apple_Free : 3)...
Reading disk image (Apple_HFS : 4)...

Reading (Apple_Free : 5)...
Reading GPT Partition Data (Backup GPT Table : 6)...

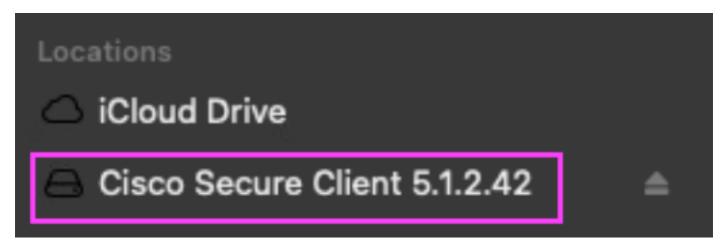
Reading GPT Header (Backup GPT Header : 7)...

Elapsed Time: 4.365s
Speed: 52.7MB/s
Savings: 0.0%
created: /Users/user/Downloads/csc-writeable.dmg
```

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# **Step 2. Run the Converted File**

Run the converted file**csc-writeable.dmg** in order to mount the DMG image. This creates a volume with the writeable contents of the DMG.



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## Step 3. Generate the install\_choices.xml file

The **install\_choices.xml** file configures which modules are installed and can be supplied as an installation argument for CLI and scripted installations. The attached **install\_choices.xml** configures only the required modules (Umbrella + VPN).

You can optionally generate and configure your own install\_choices.xml file (instead of using the one attached) by using this command:

installer -pkg /volumes/Cisco\ Secure\ Client\ <version>/Cisco\ Secure\ Client.pkg -showChoiceChangesXM

user@users-Mac Downloads % installer -pkg /volumes/Cisco\ Secure\ Client\ 5.1.2.42/Cisco\ Secure\ Client.pkg -showChoiceChangesXML > ~/Downloads/install\_choices.xml

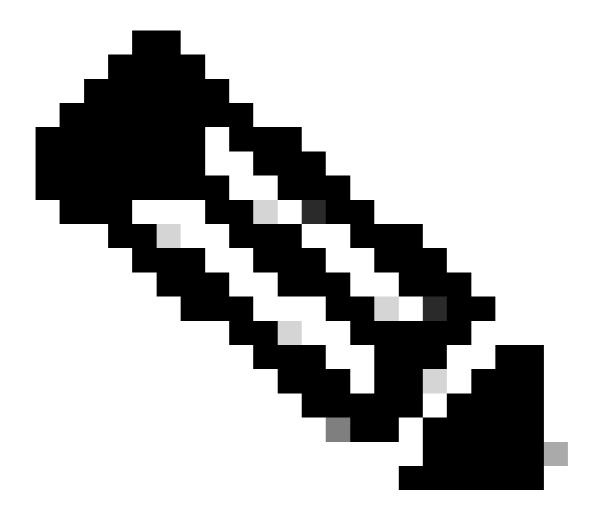
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# **Step 4. Extract the Install Options**

The extracted **install\_choices.xml**file can be changed to enable the desired module. This example enables the required Umbrella+VPN modules.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<pli><pli><pli>t version="1.0">
<array>
        <dict>
                 <key>attributeSetting</key>
                 <integer>1</integer>
                 <key>choiceAttribute</key>
                 <string>selected</string>
                 <key>choiceIdentifier</key>
                 <string>choice_vpn</string>
        </dict>
                 <dict>
                 <key>attributeSetting</key>
                 <integer>0</integer>
                 <key>choiceAttribute</key>
                 <string>selected</string>
                 <key>choiceIdentifier</key>
                 <string>choice_websecurity</string>
        </dict>
        <dict>
                 <key>attributeSetting</key>
                 <integer>0</integer>
                 <key>choiceAttribute</key>
                 <string>selected</string>
                 <key>choiceIdentifier</key>
                 <string>choice_fireamp</string>
        </dict>
                 <dict>
                 <key>attributeSetting</key>
                 <integer>1</integer>
                 <key>choiceAttribute</key>
                 <string>selected</string>
                 <key>choiceIdentifier</key>
                 <string>choice_dart</string>
        </dict>
        <dict>
                 <key>attributeSetting</key>
                 <integer>0</integer>
                 <key>choiceAttribute</key>
                 <string>selected</string>
                 <key>choiceIdentifier</key>
                 <string>choice_posture</string>
        </dict>
                 <key>attributeSetting</key>
                 <integer>0</integer>
                 <key>choiceAttribute</key>
                 <string>selected</string>
                 <key>choiceIdentifier</key>
                 <string>choice_iseposture</string>
        </dict>
                 <dict>
                 <key>attributeSetting</key>
                 <integer>0</integer>
                 <key>choiceAttribute</key>
                 <string>selected</string>
                 <key>choiceIdentifier</key>
                 <string>choice_nvm</string>
        </dict>
                 <key>attributeSetting</key>
                 <integer>1</integer>
                 <key>choiceAttribute</key>
                 <string>selected</string>
                 <key>choiceIdentifier</key>
                 <string>choice_umbrella</string>
        </dict>
```

</array> </plist>



**Note**: The xml file installs the VPN (which are hidden later), Umbrella Roaming Security and DART modules by setting the integer value to 1 and setting the rest to 0.

# Step 5. Make changes to the ACTransforms.xml file to hide the VPN functionality

To hide the VPN module edit the ACTransforms.xml:

#### /Volumes/Cisco\ Secure\ Client\ <version>/Profiles/ACTransforms.xml

Under the profiles folder, ACTransforms.xml file needs to have the line **<disablevpn>true**</**disablevpn>** *uncommented*.

Contents of ACTransforms.xml file:

<sup>&</sup>lt;!-- Optional AnyConnect installer settings are provided here. Uncomment the setting(s) to perform opti <Transforms>

<sup>&</sup>lt;!-- <DisableVPN>true</DisableVPN> -->

<sup>&</sup>lt;!-- <DisableCustomerExperienceFeedback>true</DisableCustomerExperienceFeedback> -->

<sup>&</sup>lt;/Transforms>

#### Step 6. Install the Umbrella profile

Download your Umbrella module profile (OrgInfo.json) from the Umbrella Dashboard (*Deployments* > *Roaming Computers* > *Downloads*). The profile must be provisioned for the client to register with your Umbrella Dashboard and function. Including it in the installation package prevents you having to deploy it as a post install task.

Save the profile to /Volumes/Cisco\ Secure\ Client\ <version>/Profiles/umbrella/OrgInfo.json

```
[user@users-Mac Downloads % cp OrgInfo.json /Volumes/Cisco\ Secure\ Client\ 5.1.2.42/Profiles/umbrella
```

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#### Step 7. Convert the package back to read only

Eject the DMG volume and use hdiutil to convert it to 'read only'. The read only package can then be distributed to end users.

```
diskutil eject Cisco\ Secure\ Client\ <version>
hdiutil convert csc-writeable.dmg -format UDRO -o csc-readable.dmg
```

```
user@users-Mac Downloads % hdiutil convert csc-writeable.dmg -format UDRO -o csc-readable.dmg
Preparing imaging engine...
Reading Protective Master Boot Record (MBR : 0)...
(CRC32 $DC45292C: Protective Master Boot Record (MBR : 0))
Reading GPT Header (Primary GPT Header : 1)...
   (CRC32 $6AEDD86E: GPT Header (Primary GPT Header: 1))
Reading GPT Partition Data (Primary GPT Table : 2)...
   (CRC32 $4A0A1F17: GPT Partition Data (Primary GPT Table : 2))
Reading (Apple_Free : 3)...
(CRC32 $00000000: (Apple_Free : 3))
Reading disk image (Apple_HFS : 4)...
   (CRC32 $B47BA102: disk image (Apple_HFS : 4))
Reading (Apple_Free : 5)...
(CRC32 $00000000: (Apple_Free : 5))
Reading GPT Partition Data (Backup GPT Table : 6)...
   (CRC32 $4A0A1F17: GPT Partition Data (Backup GPT Table : 6))
Reading GPT Header (Backup GPT Header : 7)...
   (CRC32 $9449E069: GPT Header (Backup GPT Header : 7))
Adding resources...
Elapsed Time: 7.251s
File size: 142740102 bytes, Checksum: CRC32 $5A980DA8
Sectors processed: 471040, 278772 copied
Speed: 18.8MB/s
Savings: 40.8%
created: /Users/user/Downloads/csc-readable.dmg
```

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# Step 8. Install Secure Client supplying the install\_choices.xml

The DMG file can be executed as normal (interactively) or pushed out via scripted/automated installation task.

- 1. In a script, attach the DMG package.
- 2. Use installer to install Cisco Secure Client.pkg. It is important to also supply our **install\_choices.xml** within the -applyChoiceChangesXML argument. This controls which modules are installed.

```
purpleser-Mac Dominosis N Individi convert cac-writeable.dmg —format UDNO —o cac-readable.dmg
Protective Master Boot Record (MBR: 0))
Reading Protective Master Boot Record (MBR: 0))
(CRC22 SAARDOMSC: protective Master Boot (Primary DPT Table: 2))
(CRC22 SAARDOMSC: protective Master Boot (Primary DPT Table: 2))
(CRC22 SAARDOMSC: protective Master Boot (Primary DPT Table: 2))
(Reading disk image (Apple.MFS: 4))
(Reading disk image (Apple.MFS: 4))
(Reading CARDOMSC: (Apple.MFS: 4))
(Reading CAR
```

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