



enfocus **CONNECT** 2021

Signing Connect ALL
Connectors

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1. Introduction

This document describes the code signing procedure for Enfocus Connectors that are created using Connect ALL.

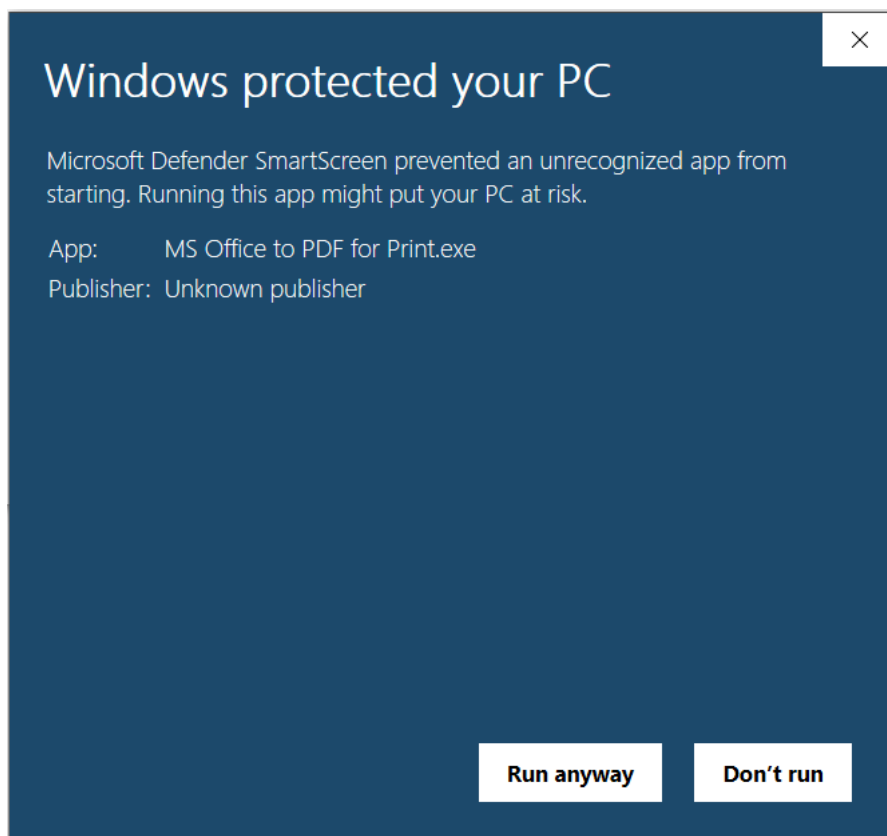
Note that this procedure applies to Windows Connectors only. Mac Connectors have to be notarized by Apple, which is a different procedure. For more information, refer to the [Notarizing Connect ALL Connectors](#) documentation on our website.

Why sign an Enfocus Connector?

When you create a Connector for use on Windows, we recommend signing it, to give your customers the confidence that the Connector you distribute to them has been created by an authorized publisher.

Otherwise your customers will get a warning, similar to the one below, that the Connector might be insecure, because it comes from an unknown publisher.





More info about signing Windows software?

Refer to [how to sign a package using SignTool](#).

2. Prerequisites

Before you can sign your Connectors, make sure you have *obtained a certificate* and *installed SignTool*, an application to sign Windows apps.

Certificate

A certificate is a digital signature that identifies the distributor of the file to which it is attached. It ensures that the contents of the file was not changed after the signature was created.

There are many online third-party vendors and certification authorities, such as VeriSign or Thawte, which provide certificates.

For more information, refer to [Cryptography Tools](#).

For instructions about creating a certificate for testing purposes, refer to the [Microsoft website](#).

SignTool

SignTool tool is a command-line tool that can be used to digitally sign applications, verify signatures in files, and time stamp files. For more information, refer to the [SignTool](#) page on the Microsoft website.

SignTool is part of the Microsoft Windows Software Development Kit. You can download the Windows SDK from [the Microsoft developer website](#).



Note: You can only use SignTool to sign your Windows application on Windows 8 and later or Windows Server 2012 and later. It's not possible to use SignTool on older operating systems.

Once you have downloaded the SDK, you should install SignTool. Refer to the [installation instructions](#).

3. Remarks

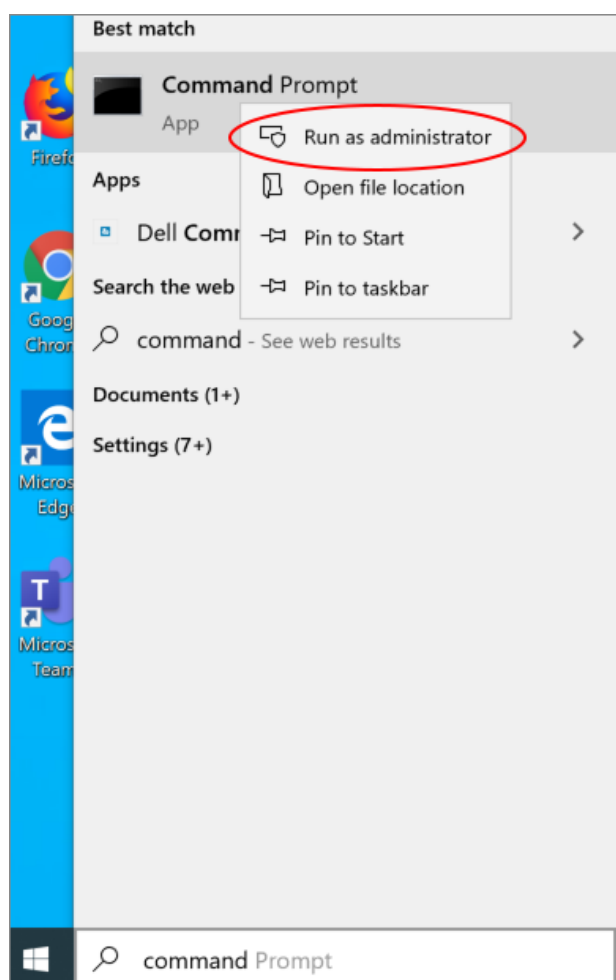
- If you are a Connect ALL user on Mac, you should copy the Windows Connector (<Connector name>.exe) to a Windows computer and sign it there. SignTool cannot be used on MacOS.
- If you created a Remote Download Connector (i.e. a small and portable version of the Connector), you should sign both the full Connector and the remote version ("remote_<Connector>.exe"). For more information about the Remote Download option, refer to the [Connect 2021 User Guide](#).
- If you want to sign a Connector for which the automatic updating mechanism is enabled, you should copy the Windows Connector from the update server (where it resides after being created from Connect ALL) to a Windows computer, to carry out the whole procedure.

When updating an existing Connector, make sure the update service is paused, to prevent remote customers from having their already installed Connectors updated, before you've completed the signing process. For more information about the automatic updating mechanism, refer to the [Connect 2021 User Guide](#).

4. Signing a Connector

To sign a Windows Connector

1. Create the Connect ALL Connector that you want to sign.
 - If you're using Connect ALL on Mac, you should first create the Connector for Windows on your Mac system, and then copy it to a Windows computer to execute step 2 of this procedure.
2. Run a command prompt as administrator:
 - a. Click the **Start** menu.
 - b. Enter `command`.
 - c. Right-click the **Command Prompt** option (which is listed as main result).
 - d. From the menu that appears, select **Run as administrator**.
 - e. Enter your administrator password.



3. Enter the following in the command prompt:

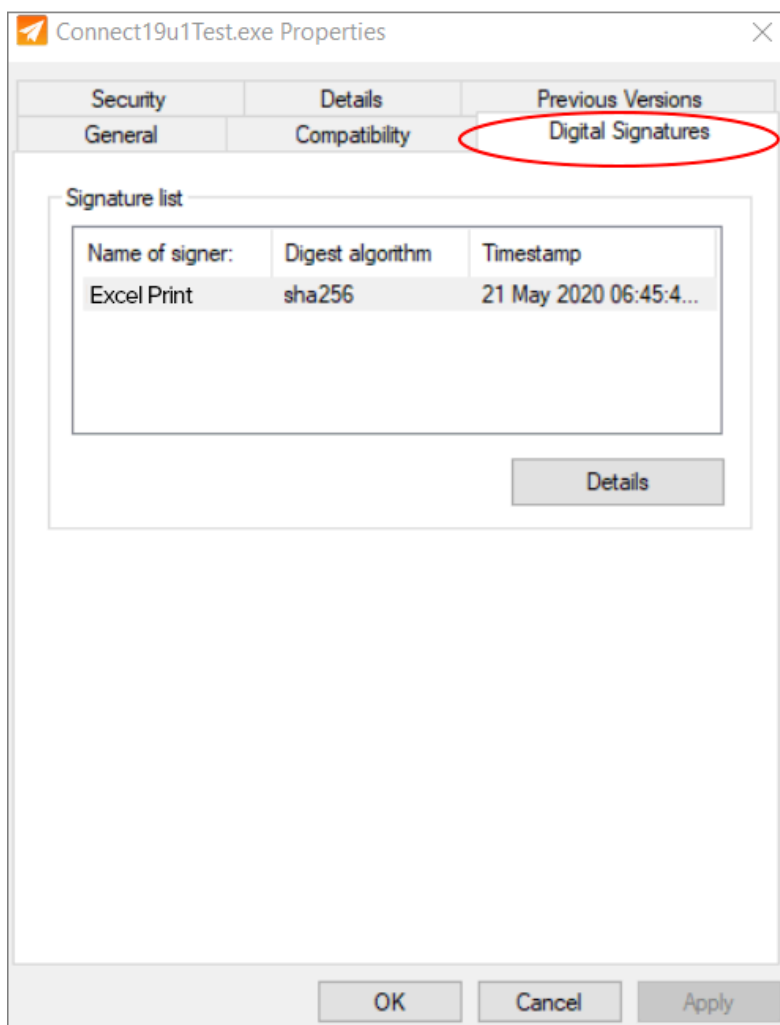
```
signtool.exe sign /v /fd sha256 /tr http://timestamp.verisign.com/scripts/
timestamp.dll /td sha256 /f <certificate path> /p <the password> "<path to
Connector.exe>"
```

(Note that after the installation of the SDK, **SignTool** is by default available on the command prompt.)

- <certificate path>: path to the certificate
- <the password>: the password used to generate the certificate. You can omit the /p *password* parameter if you use a .pfx file that isn't password protected.

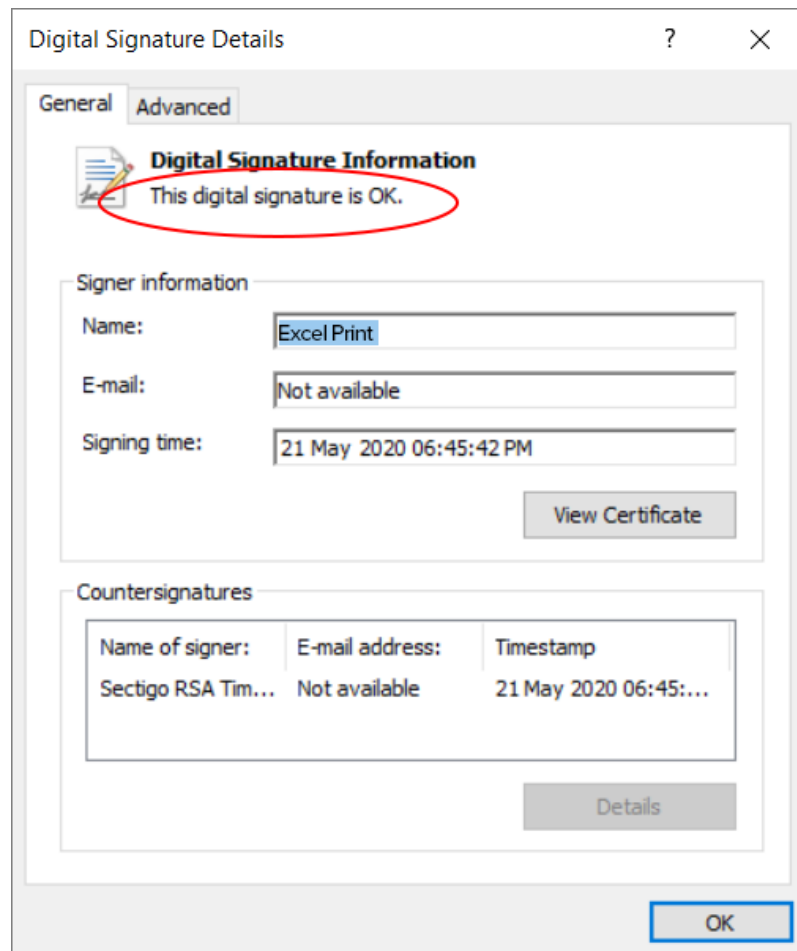
4. Verify if the Connector is signed successfully:

- In Explorer, right-click the signed Connector.
- From the menu that appears, select **Properties**.
- In the Properties dialog, click the **Digital signatures** tab.
There you should see your signature in the Signature list.



- Click **Details**.

On the General tab, you should find the confirmation that your digital signature is OK.



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