

Certificate Services OV and EV Code Signing Guide

SafeNet Authentication Client, Version 10.8

For software release 13.6

Date of issue: June 2023

Document issue: 2.0

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About

About this guide

This guide describes how to store an Entrust certificate on an iKey 5100 token or Hardware Security Module (HSM). This includes:

- installing your token (drivers and software)
- initializing your token
- accessing the Entrust Certificate Retrieval Web pages to pick-up your certificate

Topics in this section:

- "Revision information" on page 6
- "Documentation conventions" on page 7
- "Obtaining technical assistance" on page 9
- "Related documentation" on page 9

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- following this link: <u>http://go.entrust.com/documentation-feedback</u>

Revision information

Document issue	Section	Revision
Issue 2.0	"Recovering a certificate" on page 53	Wording change to indicate that Support Agents cannot reset your forgotten certificate pickup password, however they can assist you in having it reset.
Issue 1.0	N/A	First release for 13.6.

Documentation conventions

The following documentation conventions are used in Entrust guides:

Convention	Purpose	Example
Bold text (other than headings)	Indicates graphical user interface elements and wizards.	Click Next.
<i>Italicized</i> text	Used for book or document titles.	Entrust Certificate Services Enrollment Guide
Blue text	Used for hyperlinks to other sections in the document.	Entrust TruePass supports the use of many types of digital ID.
Underlined blue text	Used for Web links.	For more information, visit our Web site at <u>www.entrust.net</u> .
Courier type	Indicates installation paths, file names, Windows registry keys, commands, and text you must enter.	Use the entrust-configuration.xml file to change certain options for Verification Server.
Angle brackets < >	Indicates variables (text you must replace with your organization's correct values).	<pre>By default, the entrust.ini file is located in <install_path>/conf/security/entrust. ini.</install_path></pre>

Table 1: Typographic conventions

Note and Attention text

Throughout this guide, paragraphs are set off by ruled lines above and below. They provide key information with two levels of importance, as shown below.



Note:

Information to help you maximize the benefits of your Entrust product.



Attention:

Issues that, if ignored, may seriously affect performance, security, or the operation of your Entrust product.

Obtaining technical assistance

Entrust recognizes the importance of providing quick and easy access to our support resources. The following subsections provide details about the technical support and information available to you.

Technical support

For Entrust technical support services, visit our Web site at: <u>http://www.entrust.net/ssl-technical/index.htm</u> For technical resources, including a comprehensive Knowledge Base visit: <u>https://www.entrust.com/knowledgebase/ssl</u>

Telephone numbers

For support assistance by telephone, call one of the numbers below:

- 1 (866) 267-9297 (toll free within North America)
- 1 (613) 270-2680 (outside North America)

Email address

The email address for Customer Support is: ecs.support@entrust.com

Related documentation

This section describes related reading material that may be used in conjunction with this guide.

Token software information (<u>https://safenet.gemalto.com</u>)

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1

Installing (Picking up) your Entrust certificate

This chapter describes how to prepare a token and download an Entrust certificate. This guide assumes that you have already submitted the certificate request, it has been approved, and you are ready to download the certificate.

This chapter includes the following sections:

- "Supported platforms" on page 12
- "Before you start" on page 13
- "Downloading and installing the token software (required for USB token pickup)" on page 14
- "Initializing an Entrust USB token" on page 21
- "Retrieving your Entrust certificate" on page 29
- "Changing the password for your token" on page 46
- "Installing the certificate to a Hardware Security Module (HSM)" on page 48
- "Recovering a certificate" on page 53
- "Downloading the certificate to Azure Key Vault or AWS CloudHSM" on page 54

Supported platforms

The following platforms and browsers are supported.

Supported operating systems

The following operating systems are supported:

- Microsoft Windows 11 update version 21H2
- Microsoft Windows 10 32-bit or 64-bit, version 21H1 or lower
- Microsoft Windows Server 2019. 64-bit
- Microsoft Windows Server 2016 64-bit

Supported browsers

The following browsers are supported:

- Microsoft Edge
- Mozilla Firefox 37 or higher
- Chrome 45 or higher
- Safari 5 or higher

Important changes

Entrust now offers ECS Enterprise customers the option of using Azure Cloud Key Vault or AWS CloudHSM as an alternative to a customer premises located HSM or a hardware Token.

Before you start

To download an Entrust certificate, you need:

- a supported browser with Internet access
- a supported operating system
- an iKey 5110 CC token (provided by Entrust) or a Hardware Security Module (HSM)
- if you are using an HSM, you will need a certificate signing request (CSR) from the HSM to generate a certificate.

To contact Certificate Services Support, <u>ECS.Support@entrust.com</u>.

Installing to a token

This section discusses:

- how to configure a token to receive your certificate
- how to download the certificate from Entrust Certificate Services

Downloading and installing the token software (required for USB token pickup)

The token software provided by Entrust must be installed before you to manage your token, including logging in, initializing, and resetting your password. If you do not have this software installed, install it as described in the following procedures.



Attention:

Do not plug your token into your computer until you have completed this procedure.



Note:

For installing to HSM: This procedure is not needed. Proceed to: "Installing the certificate to a Hardware Security Module (HSM)" on page 48

To obtain and install the token authentication client

- 1 Download the SafeNet Token Authentication Client installer:
 - For the 32-bit installer: https://www.entrust.net/pickup/downloadSafeNetClient?xsize=32
 - For the 64-bit installer: https://www.entrust.net/pickup/downloadSafeNetClient?xsize=64
- 2 Double-click the EntrustSACInstaller_<number>.msi file to begin installing the software.

3 You may see this security warning. Click **Run**.



The installation wizard appears.



4 Click Next.

The Interface language page appears.

🕼 Entrust SafeNet Authentication Client	: 10.8 R6 Setup	×
Interface Language Select the interface language.		THALES
Select the Entrust SafeNet Authe	ntication Client 10.8 R6 inter	face language:
English	~	
InstallShield		
and constructed M	< Back	Next > Cancel
	Buck	Odileer

- **5** Select the language to use for the installation.
- 6 Click Next.

The License Agreement screen appears.

🕞 Entrust SafeNet Authentication Client 10.8	8 R6 Setup		
License Agreement Please read the following license ag	reement carefully.	тни	ALES
THALES SOFTWARE LICEN SafeNet Authentication Cl	SE TERMS lient		,
Legal notice:			
Thales software is not sold; rather, co the way through the distribution char ANOTHER AGREEMENT DIRECTLY WIT YOUR USE OR DISTRIBUTION OF THE	ppies of Thales sof nnel to the end use TH THALES THAT C THALES SOFTWAR	tware are lic er. UNLESS Y ONTROLS AI E, THE TERM	ensed all OU HAVE ND ALTERS IS AND
 I accept the license agreement I do not accept the license agreement 	nt		
nstallShield	< Back	Next >	Cancel

- 7 Read the agreement and select I accept the license agreement.
- 8 Click Next.

The Destination Folder screen appears.

时 Entrust Sa	afeNet Authentication Client 1	0.8 R6 Setup		\times		
Destinatio Click Ne install to	Destination Folder Click Next to install to this folder, or click Change to install to a different folder.					
	Install Entrust SafeNet Au C:\Program Files\SafeNe	Ithentication Clies	nt 10.8 R6 to:	Change		
InstallShield -						
		< Back	Next >	Cancel		

- **9** Accept the default folder or click **Change** to choose a new folder.
- 10 Click Next.
- **11** The installation screen appears. Click **Install**.
- **12** You may be asked to allow the installer to make changes to the hard drive of the computer. Allow it to proceed.

The installation screen appears.

🔀 Entrust SafeNet Authentication Client 10.8 R6 Setup	×
The wizard is ready to begin installation.	THALES
Click Install to begin the installation.	
If you want to review or change any of your installat Click Cancel to exit the wizard.	ion settings, click Back.
InstallShield	
< Back	Install Cancel

13 Click Install.

14 When the installation is complete, a success message appears.



15 Click **Finish**. You have successfully installed the token software.

Initializing an Entrust USB token

Initialize the new token so it can store your certificate. If your token is already initialized, skip to: "Retrieving your Entrust certificate" on page 29.



Attention:

This procedure is need for new tokens. If this is not a new token, initializing the token will delete all certificates stored on the token.



Note:

For installing to HSM: This procedure is not needed. Proceed to: "Installing the certificate to a Hardware Security Module (HSM)" on page 48

To initialize your token

Insert your token into a USB port on your computer. When the token has been recognized by the computer and the drivers have been installed, the SafeNet icon in the system tray switches from grayed-out to active.



2 When the icon becomes active, right-click on it to open the menu. Select **Tools**.

	Tools
	About
M	Change Token Password Unlock Token
C	Certificate Information
Š	Exit
C	
<mark>></mark>	● へ 📥 🗁 焼 🕬 8:43 AM 📿

3 The SafeNet Authentication Client opens. Click the gear icon at the top right.

SafeNet Authentication Client Tools		- 🗆 X
SafeNet Auther	nticatior	n Client 🛛 🌘 👔 🤋 🚖
Entrust IdentityGuard Bluetooth SC Reader 0	1	Rename Token
Card #8A8E3E86A18A011C	****	Change Token Password
	1	Unlock Token
	\otimes	Delete Token Content
	Q	View Token Info
< >		

4 In the menu tree on the left, click to expand **Tokens**. Right-click your token and select **Initialize Token**.



5 In the Initialize Token - Initialization Options window, select Configure all initialization settings and policies.



6 Click Next.

The Administrator Logon page appears.

© Initialize Token - Administrator Logon ×
SafeNet Authentication Client
Use Initialization key to initialize the Token Enter the current Administrator Password to initialize the Token Output Digital Signature PUK to initialize the Token Digital Signature PUK:
Current Language: EN The default administrator password and digital signature PUK is a known value of 0's set on the standard profile. For the non-default value, please enter it manually.
< Back Next > Finish Cancel

- **7** Select **Use factory default administrator password** and leave the default (48 zeros).
- **8** Select **Use factory default digital signature PUK** (Personal Unlock Key number) and leave the default value (6 zeros).
- 9 Click Next.

SafeNet Authenticat	ion Client Tools		- 🗆 X
SafeNe	SafeNet Authentication Clies		
iafeNet Authentication Tokens Card #8A8E3E8 Settings Client Settings	Token Name: My Token Create Token Password New Token Password: Confirm Password: Confirm Password Create Administrator Password Create Administrator Password Create Administrator Password Confirm Password: Logon retries before token is locked: Keep the current administrator password	st logon PIN Policy	LEF1078
٢	< Back	Current Language: Next > Finish Car	EN v
		Ć	ENTRUST

The Initialize Token - Password Settings page appears.

10 Enter the following settings and passwords.

- **a** Enter a name for your token. This can be any name you choose.
- **b** Create and confirm your token password.
- c Unselect Token password must be changed on first logon.
- **d** Create and confirm your Administrator password.
- e Unselect Keep the current administrator password.



Attention:

You will be asked for this password when you use the certificate. It is important that you either remember this password or store it in a secure location. If you enter the wrong password more than five times, the token will lock and cannot be unlocked. You will need to buy a new token—Entrust will not replace it free of charge.

11 Click Next.

The Initialize Token - IDPrime Common Criteria Settings dialog box appears.

12 In the **Initialize Token - IDPrime Common Criteria Settings** window, create a new Digital Signature PIN and New Digital Signature PUK for your token.

SafeNet Authentica	tion Client Tools		- 🗆 X
CafaNla	Initialize Token - IDPrime Common SofoNot Authoptication	on Criteria Settings	
Sateme	Salenet Authentication		1? 👌
afeNet Authentication	Common Criteria Passwords: New Digital Signature PIN: Confirm PIN: New Digital Signature PUK: Confirm PUK:		FD21078
٢		Back Next > Finish Can	v
		Ć	ENTRUST



Attention:

Keep your passwords and PINs in a safe place. This includes the Token password, Administrator password, Digital Signature PIN and New Digital Signature PUK.

13 Click Finish.

- **14** A status bar opens, indicating the progress of the initialization. You may see a warning dialog box, "The token initialization process will delete all token content and resent all token parameters." Click **OK** to complete the initialization.
- **15** A success message appears. Click **OK**.

When the initialization is complete, the software displays a success message.



Retrieving your Entrust certificate

Code Signing certificates must be installed on secure hardware—either an Entrust USB token, or a Hardware Security Module (HSM). Procedures for both options are included in this section.

Prerequisites

To pick up and install a certificate on a token, you must have completed these two pre-conditions:

- The SafeNet Authentication Client software must be installed on your Microsoft Windows machine. If that has not been done, follow the instructions in: "Downloading and installing the token software (required for USB token pickup)" on page 14
- The Entrust USB token must be initialized. If that has not been done, follow the instructions in: "Initializing an Entrust USB token" on page 21

To pick up and install a certificate to a Hardware Security Module, you need:

- a Hardware Security Module (HSM)
- a CSR that was generated on your HSM

Installing a certificate to secure hardware

There are two ways to install the certificate on a token. The first uses a PowerShell script and can be performed on any browser. The other requires the use of the Microsoft Internet Explorer browser (legacy method).

- "Install the certificate to Entrust USB token using PowerShell script" on page 30
- "To download a certificate to a hardware token using Microsoft Internet Explorer or Microsoft Edge" on page 41

To install the certificate on a Hardware Security Module (HSM), follow the procedure here. Note that you can use any supported browser.

• "Installing the certificate to a Hardware Security Module (HSM)" on page 48

Retrieving a certificate using the Certificate Services interface

This procedure explains how an Entrust Certificate Services administrator can pick up a certificate from the Certificate Services interface.

To pick up a certificate from the interface

1 Navigate to Certificates > Managed Certificates > Pending User Pickup.

- **2** Select the certificate.
- 3 To access the certificate pickup pages, click Actions > Pickup.Other users will receive an email message containing a link to the pickup page.

Install the certificate to Entrust USB token using PowerShell script

This is the recommended procedure for retrieving your certificate to an Entrust USB token. It can be used with all supported browsers.

This procedure uses an Entrust-specific Microsoft Windows PowerShell script to install the certificate on your token. The steps in the following procedure will guide you through downloading and running the token-cert-installer script in a PowerShell window.

To download a certificate to a hardware token using a PowerShell script

1 In the notification email from Entrust, click the link to the Entrust Certificate Retrieval Web pages.

The Entrust Certificate Pickup page appears.



Conti	nue
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Use Internet Explorer to pick up to USB token (legacy pickup process).

- 2 Enter the password that you used when you created the certificate request or the password provided by your Certificate Administrator, and click **Continue**.
- **3** You may see a warning that the browser is attempting to perform a certificate operation on your behalf. Allow the operation.

4 Read and accept the Entrust Certificate Services Agreement, and click Accept.



Account: Enterprise (English Account)

Pick up certificate: Agreement

Certificate type: OV Code Signing Expiry date: Friday, January 13, 2023

Certificate Subject: cn=POB Client Name, o=POB Client Name, I=Ottawa, st=Ontario, c=CA

General Terms and Conditions

These general terms and conditions ("General Terms") are part of a legally binding agreement, which is confirmed or accepted when an Order (as defined in Section 1 below) is made or an "Accept" or similar button, and/or a check box presented with these General Terms (or a Schedule, defined below, incorporating these General Terms) is clicked and/or checked by you, for any one or more of the following Entrust products and services (each, an "Offering"): (a) one or more executable software modules and associated deployment tools in machine-readable form ("Software"); (b) managed or cloud services hosted by Entrust or its hosting providers ("Hosted Service"); (c) technical support, training and Software maintenance ("Support"); and (d) consulting and other professional services").

You, as the individual clicking and/or checking the aforementioned buttons and/or boxes, represent and warrant that you are lawfully able to enter into contracts (e.g. you are not a minor). If you are entering into the Agreement on behalf of a legal entity, for example the company or organization you work for, you represent to us that you have legal authority to bind such legal entity. If YOU DO NOT ACCEPT THE TERMS AND CONDITIONS OF THE AGREEMENT (OR YOU DO NOT HAVE THE LEGAL AUTHORITY TO ENTER INTO CONTRACTS OR TO BIND THE LEGAL ENTITY ON WHOSE BEHALF YOU ARE PROVIDING SUCH ACCEPTANCE), YOU SHALL NOT ACCESS, USE, DOWNLOAD, AND/OR INSTALL THE ENTRUST OFFERING. THE CONTINUED RIGHT TO ACCESS AND USE THE ENTRUST OFFERING IS CONTINGENT ON CONTINUED COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE AGREEMENT BY YOU (AND BY THE LEGAL ENTITY ON WHOSE BEHALF YOU ARE PROVIDING ACCEPTANCE).

In consideration of the commitments set forth below, the adequacy of which consideration the parties hereby acknowledge, the parties agree as follows.

1. Contract Structure and Parties.

Decline Accept

Ш

The Choose your Key Store page appears.



Pick up certificate: Choose key store

In accordance with the Minimum Requirements for Code Signing Certificates and to ensure adequate private key protection, the Software Key Store option is no longer available. Choose a hardware key store option.

Entrust USB Token

Hardware Security Module (HSM)

Previous	Next
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5 Select Entrust USB Token, and click Next.

6 The Choose token setup screen appears.



- 7 In Are you running a supported OS, select your operating system. The toggle automatically switches to Yes when you select a supported OS.
- 8 In Do you have the Entrust SafeNet Authentication Client installed:
 - If the SafeNet client is already installed, click to change the toggle to **Yes**, and continue with the next step.
 - If the SafeNet client is not yet installed, follow the procedure in: "To obtain and install the token authentication client" on page 14. When the SafeNet software is installed, return to this browser page and this procedure to continue.
- 9 In Has your Entrust USB token been initialized:
 - If the USB token is already initialized, click to change the toggle to **Yes**, and continue with the next step.

- If the USB token is not yet initialized, follow the procedure in: "To initialize your token" on page 21. When the USB token is initialized, return to this browser page and this procedure to continue.
- **10** Select **Yes**, **I** agree to promise that your certificate will always be stored on a secure Entrust USB token.



Account: Enterprise (English Account)

Pick up certificate: Choose token setup

Instructions for installing the certificate on the token: Code Signing User Guide.pdf

Select your operating system	
Microsoft Windows 10 (32-bit, 64-bit) up to 21H1	~
Do you have the Entrust SafeNet Authentication Client	installed?
If the client has not yet been installed, you must do that next.	
las your Entrust USB token been initialized?	Ye
If your token is not initialized, you must do that next.	
End User Key Storage Requirement You must generate and store your private key on your En proceeding. Yes, I agree	trust USB token. Please agree before
Previous	

11 Click **Next** to proceed.

12 The confirmation screen appears. Review the certificate details, and click **Next**.



Account: Enterprise (English Account)

Pick up certificate: Confirm certificate details

Instructions for installing the certificate on the token: Code Signing User Guide.pdf

You are going to generate the following certificate:

Certificate type: OV Code Signing

Key Size: 4096

Expiry date: Friday, January 13, 2023

Certificate Subject: cn=POB Client Name, o=POB Client Name, I=Ottawa, st=Ontario, c=CA

Key Storage:





The Install certificate on token screen appears.



Account: Enterprise (English Account)

Pick up certificate: Install certificate on token

Instructions for installing the certificate on the token: Code Signing User Guide.pdf

Steps to install the certificate:

1. Insert your Entrust USB token into your computer

2. Download the certificate installer script: token-cert-installer-1.0.ps1

- 3. Run the certificate installer script:
 - a. In your Downloads folder, (or wherever the script was saved), right-click the script file, and select **Run with** PowerShell.

A PowerShell window opens and the script begins to run.

If Run with PowerShell is not an available option or you are having other difficulties, follow these **more detailed instructions.**

b. When prompted, enter the following Pickup code and Pickup password



c. Continue to follow the prompts as the script runs.

The SafeNet Authentication client will be launched. Use your token password to log on to the token client, and follow the prompts to install your certificate on the token.

4. Installation is complete when the script finishes successfully.

Previous

- **13** If necessary, insert your token into a USB port.
- 14 You may see a warning message. To continue, confirm that you are allowing the website to perform a digital certificate operation.
- **15** Download the token installer script by clicking the script name: token-cert-installer-<version>.ps1
- **16** You will need the **Pickup code** and the **Pickup Password**. Copy the **Pickup code** to the clipboard by clicking the copy icon beside the code.

17 Locate the script in your **Downloads** (or other) folder, and right-click > Run with PowerShell.



18 The PowerShell window opens, and launches the script. If you are prompted to give permission to run the script, type **R** at the prompt. Press the Enter key.

🔀 Windows PowerShell				
Entrust Token Cert	tificate Installer	1.0		
Pickup code : Pickup password :	541438-5B25DDE3 ******			

- **19** Paste the **Pickup code** at the **Pickup code** prompt.
- **20** Enter the **Pickup password** you used earlier in the pickup process.
- **21** Press the Enter key.

The SafeNet client is started.

🕵 Token Logon		×
SafeNet Authentica	tion Client	ENTRUST
Enter the Token Password		
Token Name:	CodeSigning token	
Token Password:	•••••	
	Current Language: EN	
		OK Cancel

22 Log in to the token using the password you set during token initialization.23 Click OK.

24 The PowerShell installation script continues to run.



Wait as the script runs. It may take a few minutes, and you will see the token light flashing through most of the process.

When this is done, you will see a screen that looks like this:



25 Follow the prompts to complete installation of the certificate on the token.

The script generates the certificate on your token. The SafeNet client will indicate that your certificate is installed on the token.

Install certificate to an Entrust USB token using Microsoft Internet Explorer or Microsoft Edge

This pickup procedure is available only with the Microsoft Internet Explorer or Microsoft Edge browser. This procedure will be deprecated when support for Internet Explorer is ended by Microsoft.

To use Microsoft Edge to install the certificate, you must use Microsoft Internet Explorer mode.

Configuring Microsoft Edge

If you are using Microsoft Edge to retrieve the certificate rather than IE or the PowerShell script, you must turn on Internet Explorer mode.

To turn on Internet Explorer mode

- 1 Open Microsoft Edge and click on the three dots in the upper right-hand corner of the browser window to open the menu.
- 2 Click on Settings.
- **3** Click on **Default browser**.
- 4 From Allow Sites to be reloaded in Internet Explorer mode (IE mode) select Allow.
- 5 From Internet Explorer mode pages, click Add.
- **6** Copy and paste the certificate retrieval URL that you received from Entrust into the **Add a page** dialog.
- 7 Click Add to save the URL.
- 8 Click Restart.

To download a certificate to a hardware token using Microsoft Internet Explorer or Microsoft Edge

- **1** Insert your token into a USB port.
- 2 From Entrust's notification email, click the link provided and navigate to the Certificate Pickup pages. If you are working from the Certificate Services UI, select the certificate, and click **Actions** > **Pickup**.

The **Pick up certificate: Password** page appears.

ENTRUST	Account: Enterprise (English Account)	
	Pick up certificate: Password	Continue
	Use Internet Explorer to pick	c up to USB token (legacy pickup process).

3 Click the link: Use Internet Explorer to pick up to USB token (legacy pickup process).

- **4** On the **Password** screen that appears, enter the password created with the certificate request.
- **5** Review your certificate information.



6 You may see a warning message. To continue, confirm that you are allowing the website to perform a digital certificate operation.

	Web Access Confirmation	×
<u>^</u>	This Web site is attempting to perform a digital certificate operation on your behalf: https://www.entrust.net/codesigning/certpickup.cfm?id=207264-754E3 37D-09FC-B40F-04C6E45A3BA85A2A#step1 You should only allow known Web sites to perform digital certificate operations on your behalf. Do you want to allow this operation?	
	Yes No	

Next

7 On the screen that appears, select Hardware Token. Click Next.



~

Choose your Key Store

O Hardware Token (Internet Explorer only)

For instructions: Code Signing and EV Code Signing user guide: opens in new browser window.

Select Key Storage Provider:

SafeNet Smart Card Key Storage Provider

O Hardware Security Module/Other

Previous Next

The **Pick up Certificate** page appears.



- 8 Click Yes, I agree to confirm that you are aware of the storage requirement (hardware-only) for Code Signing certificates.
- 9 Click Generate Certificate.
- **10** In the **Token Logon** dialog box that appears, enter the password you created for your token during the token initialization. This is not the password used to log in to the Entrust Web site.

The Web site generates the certificate on your token. This will take a few minutes. When the certificate has been created, a success message is displayed.



Account: Documentation Company

Your certificate has been generated and installed on the SafeNet token.

To view the certificate, use SafeNet Authentication Client Tools and look for a certificate issued by Entrust Extended Validation Code Signing CA - EVCS1.

Changing the password for your token

Use the following procedure when you need to change the password for your token.

To change your token password

- 1 Insert your token into a USB slot on your PC.
- 2 Right-click the SafeNet icon in the Desktop tray and select **Tools**.
- 3 Click the Advanced View (gear) icon.
- **4** Right-click the entry for your token, and select **Change Password**.



5 Enter your current password and the new password. and confirm the new password. Be sure that your password complies with the character requirements defined for the token. Easily guessed passwords are not secure.

S Change Password: My Entrust Token X		
SafeNet Authenticati	on Client	ENTRUST
Current Token Password:	•••••	
New Token Password:	•••••	
Confirm Password:	•••••	100%
The new password must comply with the quality settings defined on the token.		
A secure password has at least 8 characters, and contains upper-case letters, lower-case letters, numerals, and special characters (such as 1, \$, #, $\%$).		
Current Language: EN		
	Γ	OK Cancel

6 Click OK.

Installing the certificate to a Hardware Security Module (HSM)

Use this procedure to download your Code Signing certificate to an HSM. This procedure does not require the SafeNet Authentication Client, and can be run on any supported browser.

To install the certificate to a Hardware Security Module (HSM)

1 Click the link to the Entrust Certificate Retrieval Web pages in the notification email sent to you by Entrust.

The Entrust Certificate Pickup page appears.



•	For the second state of th

Use Internet Explorer to pick up to USB token (legacy pickup process).

- 2 Enter the password that you entered when you created the certificate request or get it from your Certificate Administrator.
- 3 Click Continue.
- **4** You may see a warning that the browser is attempting to perform a certificate operation on your behalf. Allow the operation.

The Agreement screen appears.



Account: Enterprise (English Account)

Pick up certificate: Agreement

Certificate type: OV Code Signing Expiry date: Friday, January 13, 2023

Certificate Subject: cn=POB Client Name, o=POB Client Name, I=Ottawa, st=Ontario, c=CA

General Terms and Conditions

These general terms and conditions ("General Terms") are part of a legally binding agreement, which is confirmed or accepted when an Order (as defined in Section 1 below) is made or an "Accept" or similar button, and/or a check box presented with these General Terms (or a Schedule, defined below, incorporating these General Terms) is clicked and/or checked by you, for any one or more of the following Entrust products and services (each, an "Offering"): (a) one or more executable software modules and associated deployment tools in machine-readable form ("Software"); (b) managed or cloud services hosted by Entrust or its hosting providers ("Hosted Service"); (c) technical support, training and Software maintenance ("Support"); and (d) consulting and other professional services ("Professional Service").

You, as the individual clicking and/or checking the aforementioned buttons and/or boxes, represent and warrant that you are lawfully able to enter into contracts (e.g. you are not a minor). If you are entering into the Agreement on behalf of a legal entity, for example the company or organization you work for, you represent to us that you have legal authority to bind such legal entity. If YOU DO NOT ACCEPT THE TERMS AND CONDITIONS OF THE AGREEMENT (OR YOU DO NOT HAVE THE LEGAL AUTHORITY TO ENTER INTO CONTRACTS OR TO BIND THE LEGAL ENTITY ON WHOSE BEHALF YOU ARE PROVIDING SUCH ACCEPTANCE), YOU SHALL NOT ACCESS, USE, DOWNLOAD, AND/OR INSTALL THE ENTRUST OFFERING. THE CONTINUED RIGHT TO ACCESS AND USE THE ENTRUST OFFERING IS CONTINGENT ON CONTINUED COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE AGREEMENT BY YOU (AND BY THE LEGAL ENTITY ON WHOSE BEHALF YOU ARE PROVIDING ACCEPTANCE).

In consideration of the commitments set forth below, the adequacy of which consideration the parties hereby acknowledge, the parties agree as follows.

1. Contract Structure and Parties.



- **5** Read and accept the Entrust Certificate Services Agreement.
- 6 Click Accept.

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The Choose your Key Store page appears.



Pick up certificate: Choose key store

In accordance with the Minimum Requirements for Code Signing Certificates and to ensure adequate private key protection, the Software Key Store option is no longer available. Choose a hardware key store option.

Entrust USB Token

Hardware Security Module (HSM)

Previous	Next
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7 Select Hardware Security Module.

8 Click Next.



Account: Enterprise (English Account)

Pick up certificate: Choose key store

In accordance with the Minimum Requirements for Code Signing Certificates and to ensure adequate private key protection, the Software Key Store option is no longer available. Choose a hardware key store option.

Entrust USB Token

Hardware Security Module (HSM)

Use this option if you are installing onto a Hardware Security Module (HSM) or other cryptographically secure hardware that generates a Certificate Signing Request (CSR).

	End User Key Storage Requirement
	You must generate and store your private key on cryptographically secure hardware. Please agree before proceeding.
	✓ Yes, I agree
Certifi	cate Signing Request (CSR)
	BEGIN CERTIFICATE REQUEST
MII	CizCCAXMCAQAwRjELMAkGA1UEBhMCQ0ExEzARBgNVBAoTCkNsaWVudCBJbmMx
IjA	gBgNVBAMTGTU2NzgudGVzdGNlcnRpZmljYXRlcy5jb20wggEiMA0GCSqGSIb3
DQE	BAQUAA4IBDwAwggEKAoIBAQC5xQFWG7nUDRFuDj/XirogSjBNQiyPiQGt1NWC
TEI	Ht7gKGEIRMzpGPIPv7p4STQaO+tjFuEgkNC+tFbF7A+ksa36SpjK7oq5s6fmH
Daw	UUFN1IMAArV6tP5LoVdBUiLwVvAqb68nw1axCd/MUedYDyXkzB2FEtwC/n/q+

xqLBdnHdpLSMhEB6G+Y1GW/CqJMzoTjHgl3Nx5kokx03117VD/TdYxIRqmqmTz21 2YHX1+WnevmdaK19eSW5J0348tHb4b+/eZwpInCo/rKpOcD0drOMGex5RPqU1NSK



- **9** Confirm that you will store the private key on the secure hardware by selecting **Yes, I agree**.
- **10** Paste in the CSR you generated on your HSM.
- 11 Click Next.

The Confirm certificate details screen appears.



Account: Enterprise (English Account)

Pick up certificate: Confirm certificate details

Instructions for installing the certificate on the token: Code Signing User Guide.pdf

You are going to generate the following certificate:

Certificate type: OV Code Signing

Key Size: 3072

Expiry date: Tuesday, January 17, 2023

Certificate Subject:

cn=POB Client Name, o=POB Client Name, I=Ottawa, st=Ontario, c=CA

Key Storage: Hardware Security Module (HSM)



12 Check the certificate details, and click **Generate certificate**.

13 The **Success** screen appears.



You can now install your certificate on your HSM.

Recovering a certificate

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If you need to recover your certificate, for example, because you forgot the password:

- If you need to recover your certificate within 30 days of purchasing it, Entrust Certificate Services will reissue it once without additional cost. After the 30 day period or if you need to recover the certificate more than once, you must purchase a new certificate.
- If you forget your pickup password before the certificate is generated, a Certificate Services Support Agent can help you to have the password reset.



Downloading the certificate to Azure Key Vault or AWS CloudHSM

Entrust also offers the option of storing the certificate on Azure Key Vault or AWS CloudHSM. More information about this option is available from this <u>link</u>.