



ECA Certificate Installation onto a YubiKey

This document will walk you through installing ECA Certificates (Medium Token Assurance or Medium Hardware Assurance) onto a FIPS YubiKey. Please follow the document step by step, each step is vital to the process.

Note: Printed copies of this document may not contain the most recent updates.

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Initial Setup

The below steps need to be completed before installing your certificates.

1. **Verify that you have a FIPS 140-3 YubiKey and that the necessary programs are installed.**

Only FIPS YubiKeys can be used. This process will not work the following Yubico products: YubiKey 5 series (Non-FIPS), YubiKey Bio Series, Security Key Series, YubiHSM 2. Please contact WidePoint before purchasing any YubiKeys if you are unsure. If you already own a YubiKey and are unsure if it meets the requirements, please look at the back of the device and look for the letters "FIPS" next to the serial number. All FIPS YubiKeys will have FIPS written next to the serial number.

- a. Use **this** document to verify that your YubiKey is a FIPS YubiKey and that you have installed the YubiKey Manager CLI App and Yubico Authenticator App.

https://eca.orc.com/wp-content/uploads/ECA_Docs/Preparing_Your_Computer_And_Identifying_Your_YubiKey.pdf

2. **Verify that the Trust Chain Certificates have been installed.**

The Trust Chain Certificates are what allowed your ECA Certificates to be validated during its use, it also gives you secure access to our installation program and website.

- a. Use [this](#) instructional guide to check if the Trust Chain Certificates have been installed.

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If: Any of the files are missing in your MMC.

- (i) Use [this](#) instructional guide to use the DoD's InstallRoot program to install the necessary files.
- (ii) Use [this](#) instructional guide to manually install all necessary Trust Chain Certificates.

3. Verify that ActivClient is not installed.

ActivClient will cause issues with using your YubiKey certificates. This program is used for our Smartcard and USB Token based certificates, so if you have had certificates on either of those hardware types previously, you will most likely have this program installed. Please reach out to your IT to get assistance with uninstalling with program.

- a. Use [this](#) PDF to check to see if ActivClient is installed.

If: ActivClient is installed

- (i) Contact your IT to have them uninstall the program.

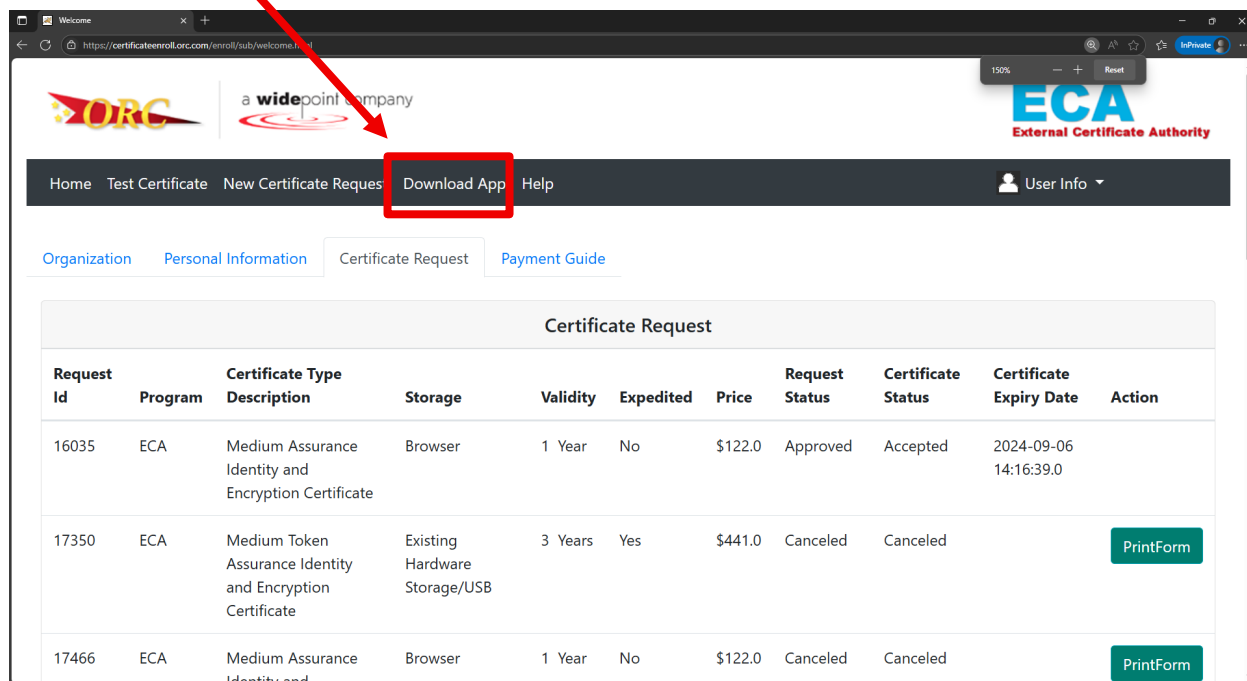
4. Proceed to the [Downloading and Installing the Widepoint YubiKey Solution Software](#) task.

Downloading and Installing the Widepoint YubiKey Solution Software

Complete the following steps to Install the Widepoint YubiKey Solution Software. This is the application that will be used to download and install the ECA Certificates.

1. Download the Widepoint Yubikey Solution Software.

- a. Login to your subscriber home page [here](#).
- b. Select "Download App" from the black banner at the top of the subscriber home page

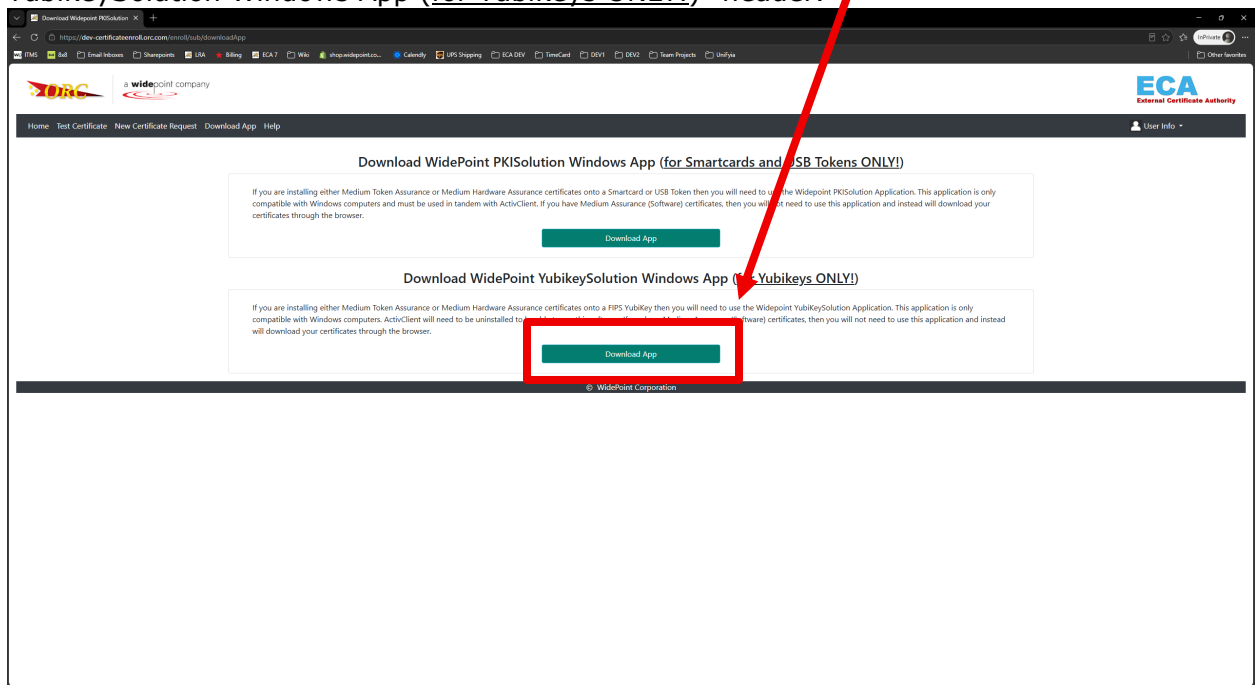


The screenshot shows the Widepoint YubiKey Solution Software interface. The top navigation bar includes links for Home, Test Certificate, New Certificate Request, Download App (highlighted with a red box and a red arrow), and Help. Below the navigation bar, there are tabs for Organization, Personal Information, Certificate Request, and Payment Guide. The main content area displays a table titled "Certificate Request" with columns for Request Id, Program, Certificate Type Description, Storage, Validity, Expedited, Price, Request Status, Certificate Status, Certificate Expiry Date, and Action. The table contains three rows of data, with the last two rows having a "PrintForm" button.

Request Id	Program	Certificate Type Description	Storage	Validity	Expedited	Price	Request Status	Certificate Status	Certificate Expiry Date	Action
16035	ECA	Medium Assurance Identity and Encryption Certificate	Browser	1 Year	No	\$122.0	Approved	Accepted	2024-09-06 14:16:39.0	
17350	ECA	Medium Token Assurance Identity and Encryption Certificate	Existing Hardware Storage/USB	3 Years	Yes	\$441.0	Canceled	Canceled		PrintForm
17466	ECA	Medium Assurance Identity and	Browser	1 Year	No	\$122.0	Canceled	Canceled		PrintForm

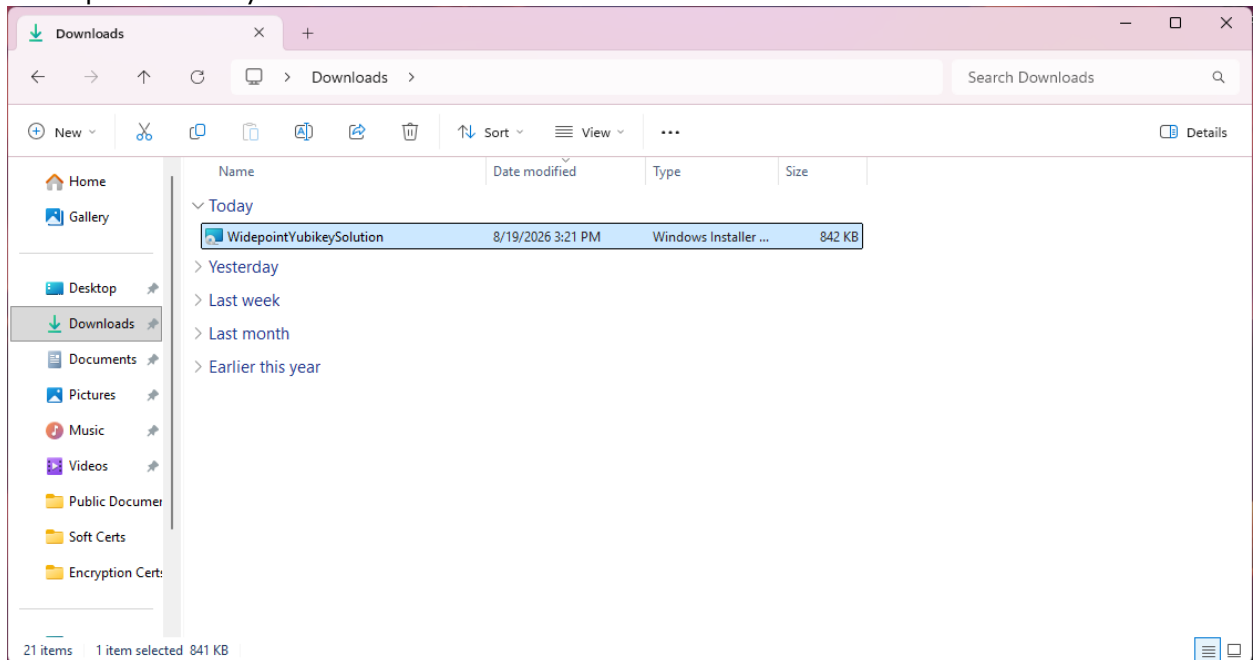
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- c. Select the green “Download App” button under the “Download WidePoint YubikeySolution Windows App (for Yubikeys ONLY!)” header.



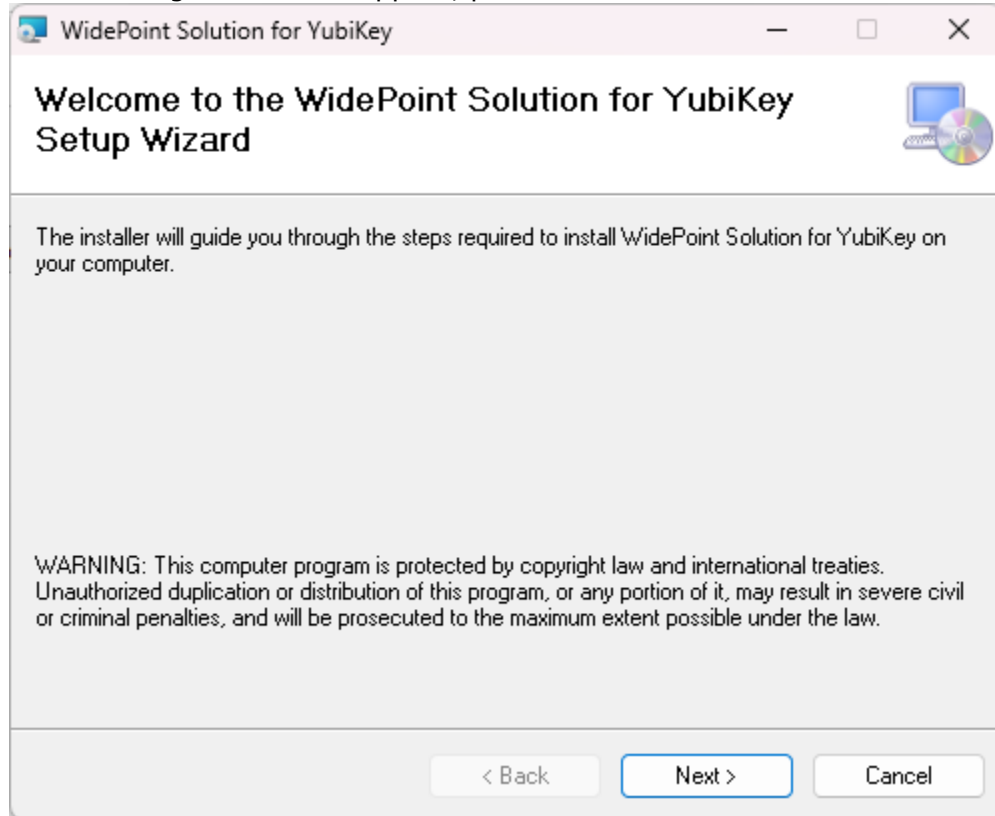
2. Install the Widepoint YubiKey Solution application.

- a. Open your downloads folder and locate the newly downloaded file. File is labeled “WidepointYubiKeySolution”.

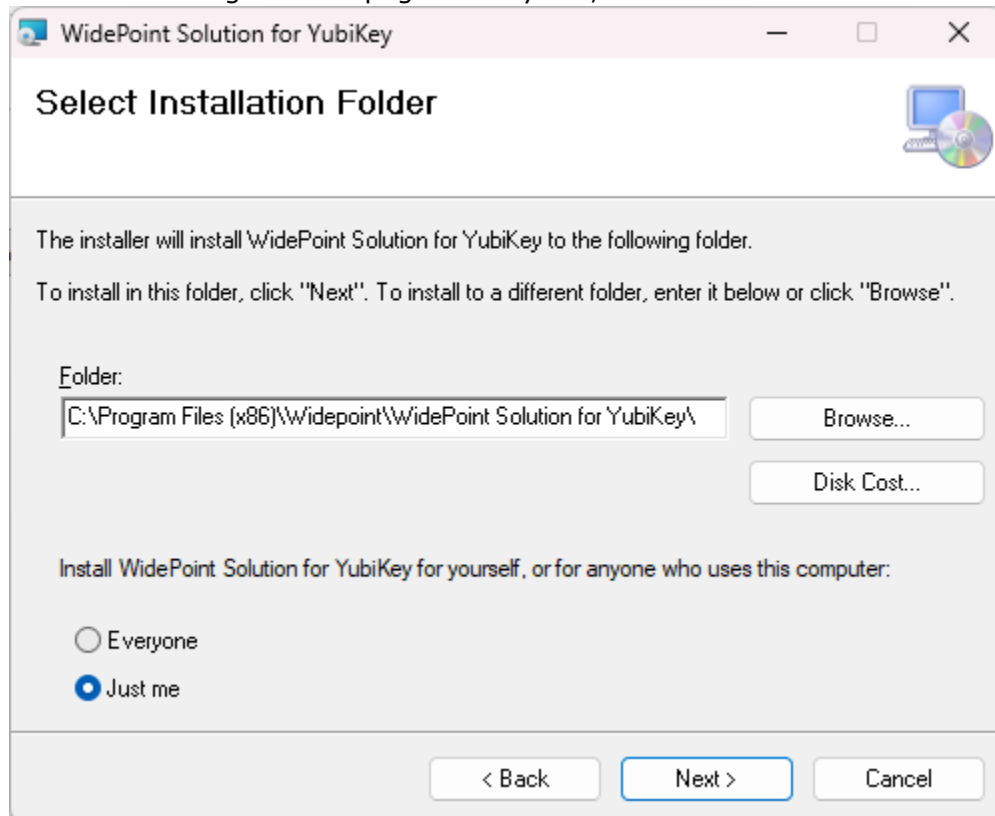


- b. Double click the downloaded installation file.

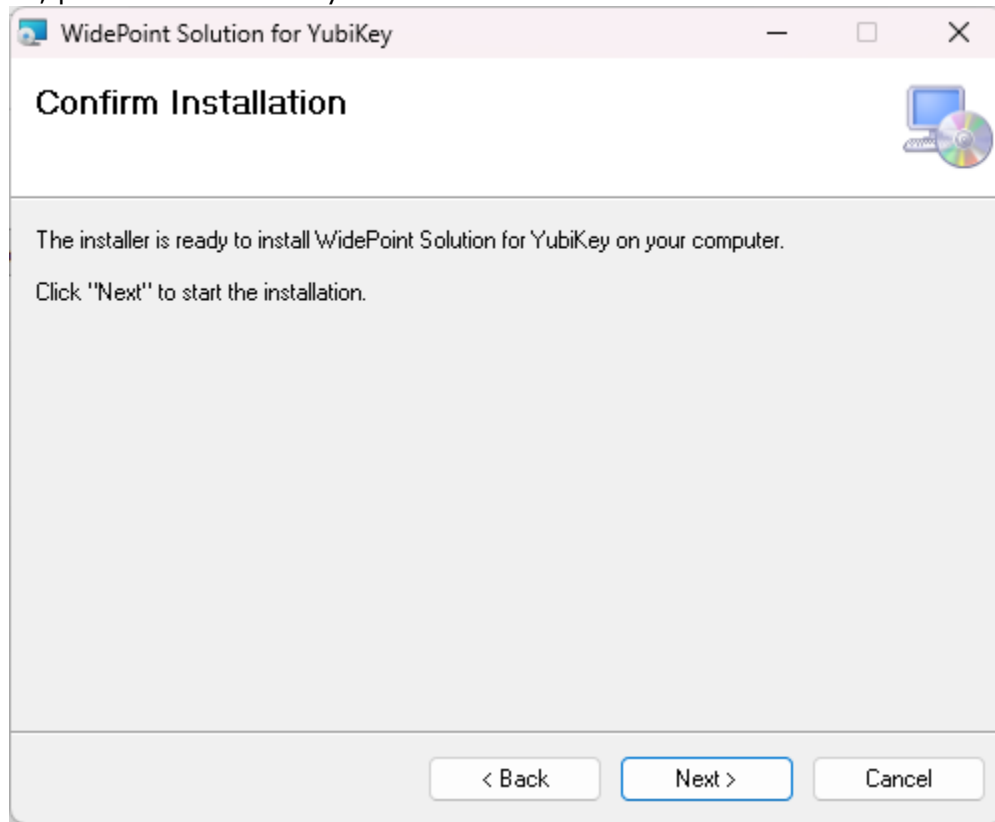
- c. The following window will appear, please select 'Next'.



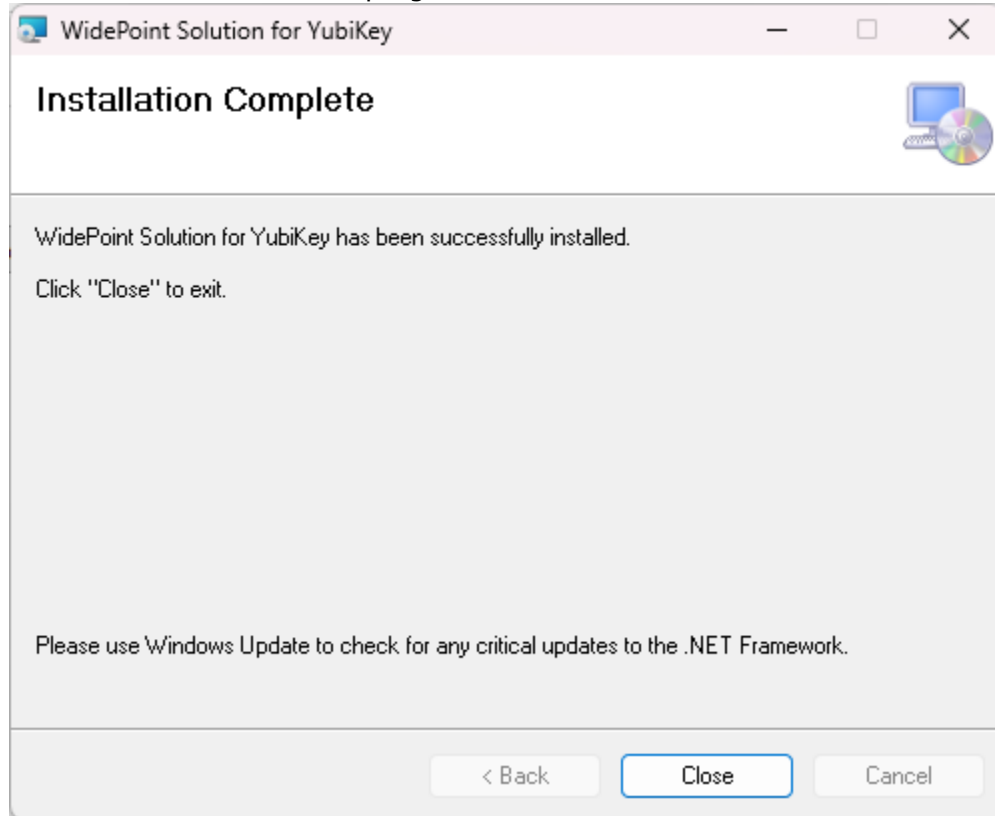
- d. Leave the settings on this page as they are, and then select 'Next'.



- e. Select 'Next', you may be asked for admin credentials to install this program. If so, please reach out to your internal IT for assistance.



- f. Select 'Close' to finish the program's installation.



3. Proceed to the [Logging into the Widepoint YubiKey Solution Application](#) task.

Logging into the Widepoint YubiKey Solution application

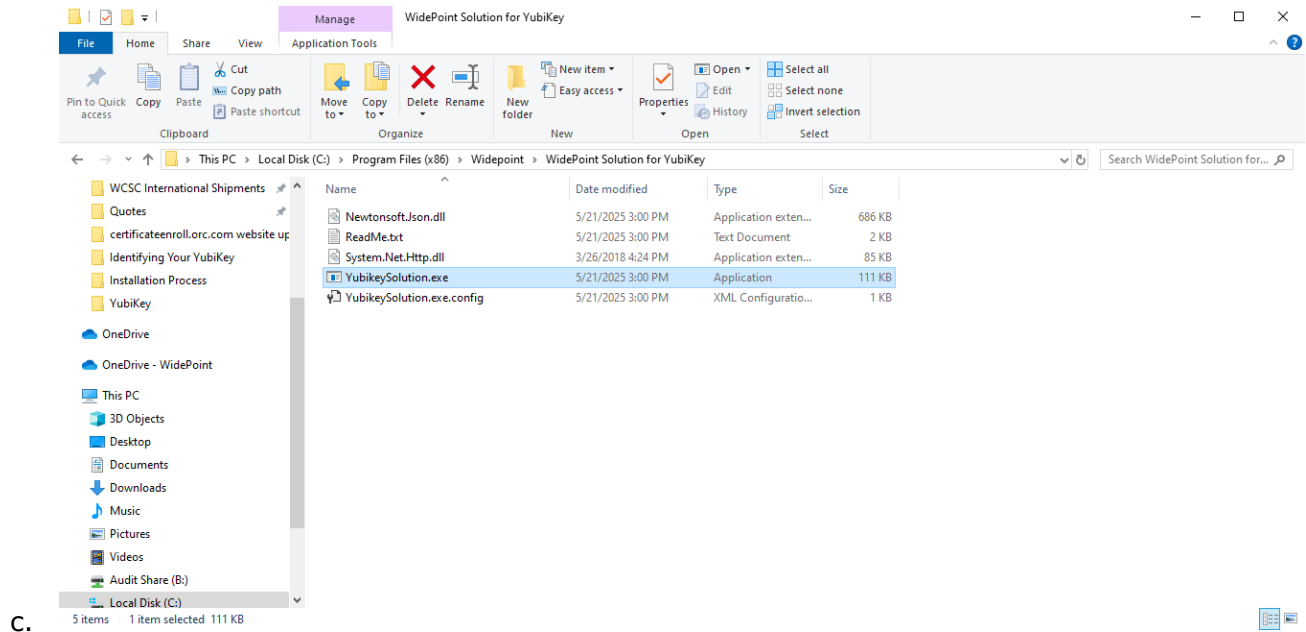
Complete the following steps to login to the Widepoint YubiKey Solution Software. Your FIPS YubiKey will need to be plugged in for the following steps. Do not remove the FIPS YubiKey during this PDF unless explicitly told to do so by a member of the Widepoint support team.

1. **Open the Widepoint YubiKey Solution application.**

- a. Go to the folder that the application installed to. If you did not change the installation path then it will install to the following folder.
C:\Program Files (x86)\Widepoint\WidePoint Solution for YubiKey
- b. Select the file named "YubikeySolution.exe" and select "Open". DO NOT select the file named "YubikeySolution.exe.config".

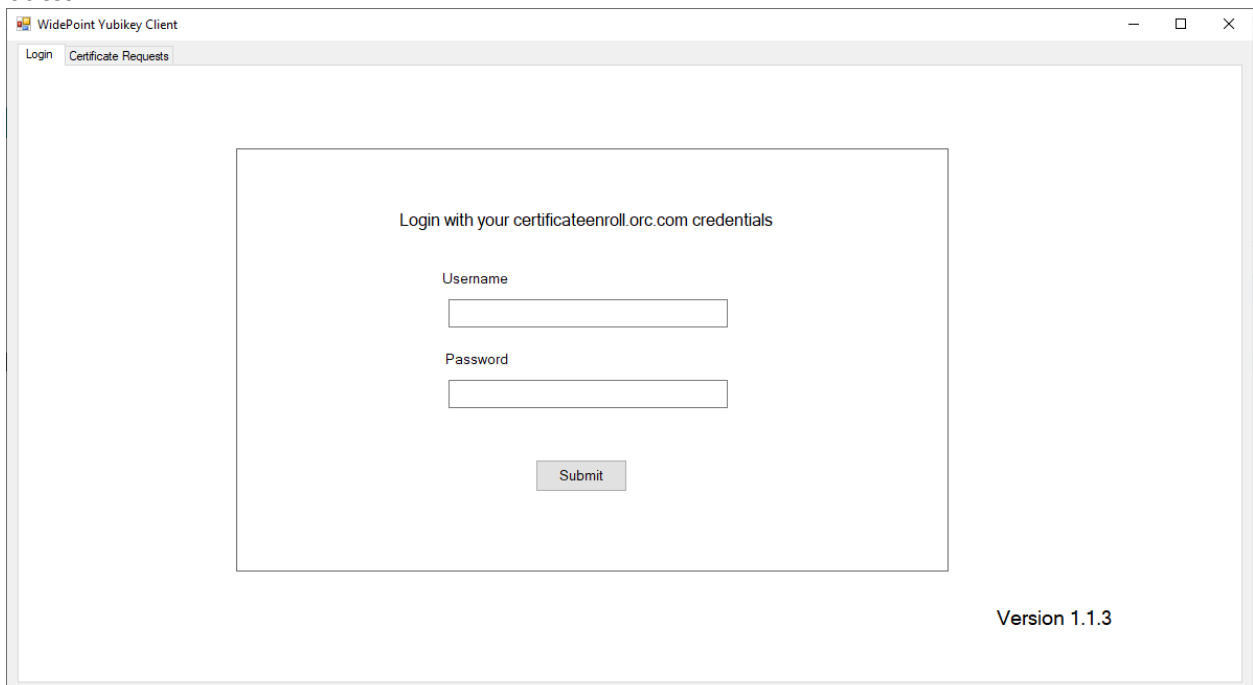
Note: If you do not see ".exe" on the file name, that just means that you have a setting on your computer that makes it not show file extensions. This is not a problem. The file will instead be called "YubiKeySolution" with no ".exe". Please continue as normal.

ECA Certificate Installation onto a YubiKey



2. Log into the application using your Widepoint account information.

Select submit after typing in your username and password. The username is the email address you signed up with and the password was created during the account creation process. This is the same username and password you use to sign into our website. If you need to reset your password please go [here](#) and select the "Forgot Password" button.



If: You are given an error that says "Incorrect credentials"

- This means that your password or email address is being typed incorrectly. Please confirm your credentials by going [here](#) and logging into your Widepoint account. The same credentials used to log into that website are used to log into this application.

ECA Certificate Installation onto a YubiKey

If: You are given an error that says “Trust Chain Certificates not installed”.

- Go back [here](#) to Initial Setup’s step 2 to verify the trust chain.

If: You click submit and nothing happens.

- It is most likely caused by your Firewall or VPN. Please contact your IT to make sure that your computer has a secure and uninterrupted connection to the following domain: <https://certificateenroll.orc.com>

3. Verify that you see the list of your current certificate requests.

The screenshot shows the 'WidePoint Yubikey Client' window with the 'Certificate Requests' tab selected. Below the 'Login' button, there is a link: 'Please select the certificate request shown below to download.' Below this link is a table with 10 columns: Req ID, Username, Certificate Type, Validity, Storage, Price, Status, Issued, and an empty column. The table contains 10 rows of data. Below the table, there are two radio buttons for 'Management Key Source': 'Self Managed' and 'WidePoint Managed'. Below these are two dropdown menus: 'Select Yubikey:' (showing 'Loading...') and 'Enter PIN:' (showing 'Loading...'). Below the PIN field is a checkbox 'Show Characters' and a checkbox 'Use Default'. Below the PIN field is another checkbox 'Show Characters' and a checkbox 'Use Default'. Below the PIN field is a text input field for 'Enter Management Key:' and a checkbox 'Show Characters'. Below the Management Key field is a checkbox 'Use Default'. At the bottom, there is a section titled 'Import Certificates to Selected Yubikey' with a large empty box.

Req ID	Username	Certificate Type	Validity	Storage	Price	Status	Issued	
17350	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	Existing Har...	392.00	Canceled	Canceled	
18771	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	209.00	Approved	Accepted	
23031	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	USB Token	469.00	Canceled	Canceled	
30121	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	USB Token	278.00	Canceled	Canceled	
32718	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Approved	Revoked	
32719	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Pending	Pending	
34641	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	3	Existing Har...	575.00	Approved	Accepted	
39617	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	249.00	Approved	Accepted	
43283	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	195.00	Approved	Pending	

Important Note: You will not see the amount of certificate requests as the screenshot above. You will see your requests, the request IDs shown above are from a Widepoint employee. As long as you see the certificate request that was approved for issuance, then please proceed.

If: You see an error that says “Please connect a YubiKey to continue” or “No YubiKey connected”

ECA Certificate Installation onto a YubiKey

- a. Unplug your FIPS YubiKey and then plug it back into your machine.

WidePoint Yubikey Client

Login Certificate Requests

Please select the certificate request shown below to download.

Req ID	Username	Certificate Type	Validity	Storage	Price	Status	Issued
17350	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	Existing Har...	392.00	Canceled	Canceled
18771	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	209.00	Approved	Accepted
23031	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	USB Token	469.00	Canceled	Canceled
30121	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	USB Token	278.00	Canceled	Canceled
32718	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Approved	Revoked
32719	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Pending	Pending
34641	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	3	Existing Har...	575.00	Approved	Accepted
39617	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	249.00	Approved	Accepted
43283	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	195.00	Approved	Pending

Please connect a Yubikey to continue.

Management Key Source
☐ Self Managed ☐ WidePoint Managed

Select Yubikey: No YubiKey connected

Enter PIN: ☐ Use Default
☐ Show Characters

Enter Management Key: ☐ Use Default
☐ Show Characters

Import Certificates to Selected Yubikey

If: You see an error that says "ONLY one YubiKey may be connected. Please, remove extra YubiKeys and try again".

- a. Unplug all YubiKeys plugged into your computer. Verify which FIPS YubiKey is going to be used for the installation and then plug it into the computer. Only the YubiKey that is going to have the ECA Certificates installed onto it should be plugged into the computer.

WidePoint Yubikey Client

Login Certificate Requests

Please select the certificate request shown below to download.

Req ID	Username	Certificate Type	Validity	Storage	Price	Status	Issued
17350	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	Existing Har...	392.00	Canceled	Canceled
18771	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	209.00	Approved	Accepted
23031	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	USB Token	469.00	Canceled	Canceled
30121	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	USB Token	278.00	Canceled	Canceled
32718	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Approved	Revoked
32719	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Pending	Pending
34641	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	3	Existing Har...	575.00	Approved	Accepted
39617	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	249.00	Approved	Accepted
43283	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	195.00	Approved	Pending

ONLY one Yubikey may be connected. Please, remove extra Yubikeys and try again.

Management Key Source
☐ Self Managed ☐ WidePoint Managed

Select Yubikey: [YubiKey 5 NFC (5.2.4) [OTP+FIDO+CCID] Serial: 12394841]

Enter PIN: ☐ Use Default
☐ Show Characters

Enter Management Key: ☐ Use Default
☐ Show Characters

Import Certificates to Selected Yubikey

ECA Certificate Installation onto a YubiKey

4. Verify that your FIPS YubiKey is being recognized through the application

Confirm that the FIPS YubiKey is being shown within the Widepoint application and is not showing any errors.

The screenshot shows the 'WidePoint Yubikey Client' window. At the top, there's a 'Login' tab and a 'Certificate Requests' tab. Below the tabs, a message says 'Please select the certificate request shown below to download.' Below this is a table of certificate requests. A red arrow points from the instruction text to the table. Below the table, there's a 'Management Key Source' section with two radio buttons: 'Self Managed' (selected) and 'WidePoint Managed'. Below this is a 'Select Yubikey:' dropdown menu, which is highlighted with a red box and contains the text 'YubiKey 5 NFC FIPS (5.4.3) [OTP+FIDO+CCID] Serial: 28784475'. Below the dropdown are two input fields: 'Enter PIN:' and 'Enter Management Key:', each with a 'Show Characters' checkbox and a 'Use Default' checkbox. At the bottom, there's a section 'Import Certificates to Selected Yubikey' with two buttons: 'Authentication/ID' and 'Download Encryption'.

Req ID	Username	Certificate Type	Validity	Storage	Price	Status	Issued
17350	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	Existing Har...	392.00	Canceled	Canceled
18771	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certi...	1	Existing Har...	209.00	Approved	Accepted
23031	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	USB Token	469.00	Canceled	Canceled
30121	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	USB Token	278.00	Canceled	Canceled
32718	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certi...	1	Existing Har...	240.00	Approved	Revoked
32719	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certi...	1	Existing Har...	240.00	Pending	Pending
34641	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certi...	3	Existing Har...	575.00	Approved	Accepted
39617	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certi...	1	Existing Har...	249.00	Approved	Accepted
43283	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	195.00	Approved	Pending

5. Proceed to the [Widepoint Managed or Self Managed FIPS YubiKey Task](#).

WidePoint Managed or Self Managed FIPS YubiKey

Note: If you have already been told by your company which option you are choosing then please proceed to the [Installing Certificates](#) Task.

Before installing any certificates onto your FIPS YubiKey you and your company must decide if they want to manage your YubiKeys information yourself, or if you would like Widepoint to manage the YubiKey.

Please use the PDF linked below to discuss with your team. The decision should be made for your entire company, please reach out to your IT team and consult the decision with them.

https://eca.orc.com/wp-content/uploads/ECA_Docs/Managing_Your_FIPS_YubiKey.pdf

- Proceed to the [Installing Certificates](#) Task.

Installing Certificates

The following steps will walk you through installing the certificates onto your FIPS YubiKey. There will be different directions on step 1 depending on if you have a Self Managed or Widepoint Managed YubiKey.

1. Select Widepoint Managed or Self Managed

Please select the certificate request shown below to download.

Req ID	Username	Certificate Type	Validity	Storage	Price	Status	Issued
17350	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	Existing Har...	392.00	Canceled	Canceled
18771	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	209.00	Approved	Accepted
23031	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	USB Token	469.00	Canceled	Canceled
30121	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	USB Token	278.00	Canceled	Canceled
32718	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Approved	Revoked
32719	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Pending	Pending
34641	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	3	Existing Har...	575.00	Approved	Accepted
39617	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	249.00	Approved	Accepted
43283	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	195.00	Approved	Pending

Management Key Source

☐ Self Managed ☒ WidePoint Managed

Select Yubikey: YubiKey 5 NFC FIPS (5.4.3) [OTP+FIDO+CCID] Serial: 28784475

Enter PIN: ☐ Use Default

☐ Show Characters

Enter Management Key: ☐ Use Default

☐ Show Characters

Import Certificates to Selected Yubikey

If: You are selecting Widepoint Managed

- A screen will appear and ask you to create a PIN for the YubiKey. Create a PIN that follow the rules below, and then press "Confirm".
 - 6-8 Characters long
 - You can use any printable ASCII characters, including numbers, letters (uppercase and lowercase), and special characters.

WidePoint Managed Yubikey

This YubiKey will be managed by WidePoint only. Both the PUK and Management key will be set to values owned by WidePoint.

Enter a valid PIN to proceed.

PIN:

Confirm PIN:

Confirm Cancel

Important Note: Please write down this PIN, as this is what you will type in to use your certificates. DO NOT SHARE THIS PIN WITH ANYONE ELSE.

ECA Certificate Installation onto a YubiKey

- b. Type in your PIN into the “Enter PIN” section.

Please select the certificate request shown below to download.

Req ID	Username	Certificate Type	Validity	Storage	Price	Status	Issued
17350	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	Existing Har...	392.00	Canceled	Canceled
18771	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	209.00	Approved	Accepted
23031	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	USB Token	469.00	Canceled	Canceled
30121	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	USB Token	278.00	Canceled	Canceled
32718	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Approved	Revoked
32719	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Pending	Pending
34641	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	3	Existing Har...	575.00	Approved	Accepted
39617	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	249.00	Approved	Accepted
43283	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	195.00	Approved	Pending

Management Key Source
☐ Self Managed ☒ WidePoint Managed

Select Yubikey: YubiKey 5 NFC FIPS (5.4.3) [OTP+FIDO+CCID] Serial: 28784475

Enter PIN: ☐ Use Default [Reset/Unlock PIN](#)

☐ Show Characters

Import Certificates to Selected Yubikey

If: You are selecting Self Managed

- a. A screen will appear telling you that this choice cannot be reversed. Once you are confident that this is the correct choice please select “Continue”.
- b. Type in the PIN to your FIPS YubiKey and its Management Key (9B Value) into the corresponding fields.

Please select the certificate request shown below to download.

Req ID	Username	Certificate Type	Validity	Storage	Price	Status	Issued
291	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	187.00	Approved	Pending
292	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Approved	Pending
10077	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	195.00	Vetted	Pending
10078	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	249.00	Vetted	Pending
10079	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	195.00	Vetted	Pending
10080	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	249.00	Vetted	Pending

Management Key Source
☒ Self Managed ☐ WidePoint Managed

Select Yubikey: YubiKey 5 NFC FIPS (5.4.3) [OTP+FIDO+CCID] Serial: 28784475

Enter PIN: ☐ Use Default

Enter Management Key: ☐ Use Default

☐ Show Characters ☐ Show Characters

Import Certificates to Selected Yubikey

Testing Only
[Reset \(DEV/Test Only\)](#)

ECA Certificate Installation onto a YubiKey

2. Select the approved request ID.

The correct request ID will say "Approved" under the status tab and "Pending" under the issued tab.

Please select the certificate request shown below to download.

Req ID	Username	Certificate Type	Validity	Storage	Price	Status	Issued
17350	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	Existing Har...	392.00	Canceled	Canceled
18771	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	209.00	Approved	Accepted
23031	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	USB Token	469.00	Canceled	Canceled
30121	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	USB Token	278.00	Canceled	Canceled
32718	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Approved	Revoked
32719	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Pending	Pending
34641	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	3	Existing Har...	575.00	Approved	Accepted
39617	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	249.00	Approved	Accepted
43283	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	195.00	Approved	Pending

Management Key Source
☐ Self Managed ☒ WidePoint Managed

Select Yubikey: YubiKey 5 NFC FIPS (5.4.3) [OTP+FIDO+CCID] Serial: 28784475

Enter PIN: ☐ Use Default
☐ Show Characters [Reset/Unblock PIN](#)

Import Certificates to Selected Yubikey

3. Select "Authentication/ID" to begin installing the ID Certificate.

Click the button one time and then wait. Do not select the button multiple times. If any errors are shown you must immediately contact the widepoint helpdesk at wcsc.helpdesk@widepoint.com with screenshots of the issue.

Please select the certificate request shown below to download.

Req ID	Username	Certificate Type	Validity	Storage	Price	Status	Issued
17350	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	Existing Har...	392.00	Canceled	Canceled
18771	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	209.00	Approved	Accepted
23031	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	USB Token	469.00	Canceled	Canceled
30121	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	USB Token	278.00	Canceled	Canceled
32718	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Approved	Revoked
32719	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Pending	Pending
34641	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	3	Existing Har...	575.00	Approved	Accepted
39617	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	249.00	Approved	Accepted
43283	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	195.00	Approved	Pending

Management Key Source
☐ Self Managed ☒ WidePoint Managed

Select Yubikey: YubiKey 5 NFC FIPS (5.4.3) [OTP+FIDO+CCID] Serial: 28784475

Enter PIN: ☐ Use Default
☐ Show Characters [Reset/Unblock PIN](#)

Import Certificates to Selected Yubikey

ECA Certificate Installation onto a YubiKey

You will see the following messages appear in order. Do not continue until you see the final message “Id certificate has been installed.”.

a.

Please select the certificate request shown below to download.

Req ID	Username	Certificate Type	Validity	Storage	Price	Status	Issued
17350	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	Existing Har...	392.00	Canceled	Canceled
18771	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	209.00	Approved	Accepted
23031	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	USB Token	469.00	Canceled	Canceled
30121	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	USB Token	278.00	Canceled	Canceled
32718	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Approved	Revoked
32719	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Pending	Pending
34641	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	3	Existing Har...	575.00	Approved	Accepted
39617	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	249.00	Approved	Accepted
43283	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	195.00	Approved	Pending

Please be patient...key pair generation takes a while.

Management Key Source
☐ Self Managed ☒ WidePoint Managed

Select Yubikey: YubiKey 5 NFC FIPS (5.4.3) [OTP+FIDO+CCID] Serial: 28784475

Enter PIN: ☐ Show Characters [Reset/Unblock PIN](#) ☐ Use Default

Import Certificates to Selected Yubikey

b.

Please select the certificate request shown below to download.

Req ID	Username	Certificate Type	Validity	Storage	Price	Status	Issued
17350	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	Existing Har...	392.00	Canceled	Canceled
18771	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	209.00	Approved	Accepted
23031	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	USB Token	469.00	Canceled	Canceled
30121	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	USB Token	278.00	Canceled	Canceled
32718	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Approved	Revoked
32719	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Pending	Pending
34641	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	3	Existing Har...	575.00	Approved	Accepted
39617	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	249.00	Approved	Accepted
43283	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	195.00	Approved	Pending

Please wait, certificate is being installed...

Management Key Source
☐ Self Managed ☒ WidePoint Managed

Select Yubikey: YubiKey 5 NFC FIPS (5.4.3) [OTP+FIDO+CCID] Serial: 28784475

Enter PIN: ☐ Show Characters [Reset/Unblock PIN](#) ☐ Use Default

Import Certificates to Selected Yubikey

ECA Certificate Installation onto a YubiKey

C.

The screenshot shows the 'WidePoint Yubikey Client' window. It has a 'Login' tab and a 'Certificate Requests' tab. Below the tabs, there is a message: 'Please select the certificate request shown below to download.' Below this is a table with the following data:

Req ID	Username	Certificate Type	Validity	Storage	Price	Status	Issued
17350	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	Existing Har...	392.00	Canceled	Canceled
18771	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	209.00	Approved	Accepted
23031	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	USB Token	469.00	Canceled	Canceled
30121	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	USB Token	278.00	Canceled	Canceled
32718	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Approved	Revoked
32719	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Pending	Pending
34641	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	3	Existing Har...	575.00	Approved	Accepted
39617	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	249.00	Approved	Accepted
43283	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	195.00	Approved	Pending

Below the table, there is a message: 'Id certificate has been installed.' Below this is a 'Management Key Source' section with two radio buttons: 'Self Managed' and 'WidePoint Managed' (selected). Below this is a 'Select Yubikey:' dropdown menu showing 'YubiKey 5 NFC FIPS (5.4.3) [OTP+FIDO+CCID] Serial: 28784475'. Below this is an 'Enter PIN:' field with a masked input and a 'Show Characters' checkbox. To the right of the PIN field is a 'Use Default' checkbox and a 'Reset/Unblock PIN' link. Below these fields is a section titled 'Import Certificates to Selected Yubikey' with two buttons: 'Authentication/ID' and 'Download Encryption'.

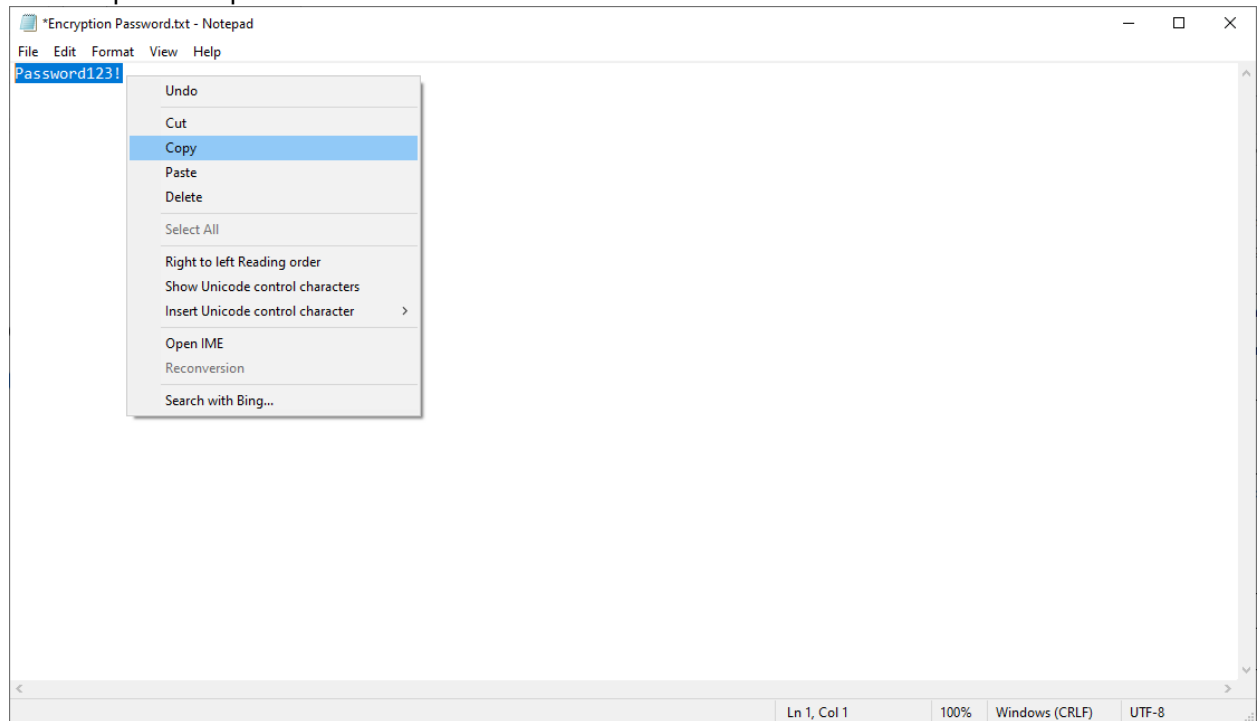
4. Create your Encryption Certificate Password

This password protects the Encryption Certificate file. This password is only used when installing the encryption certificate, it is not used during the use of the encryption certificate. This password must be saved in a secure place, as this will only be used in the case of you losing your YubiKey or installing the encryption certificate to a new Yubikey.

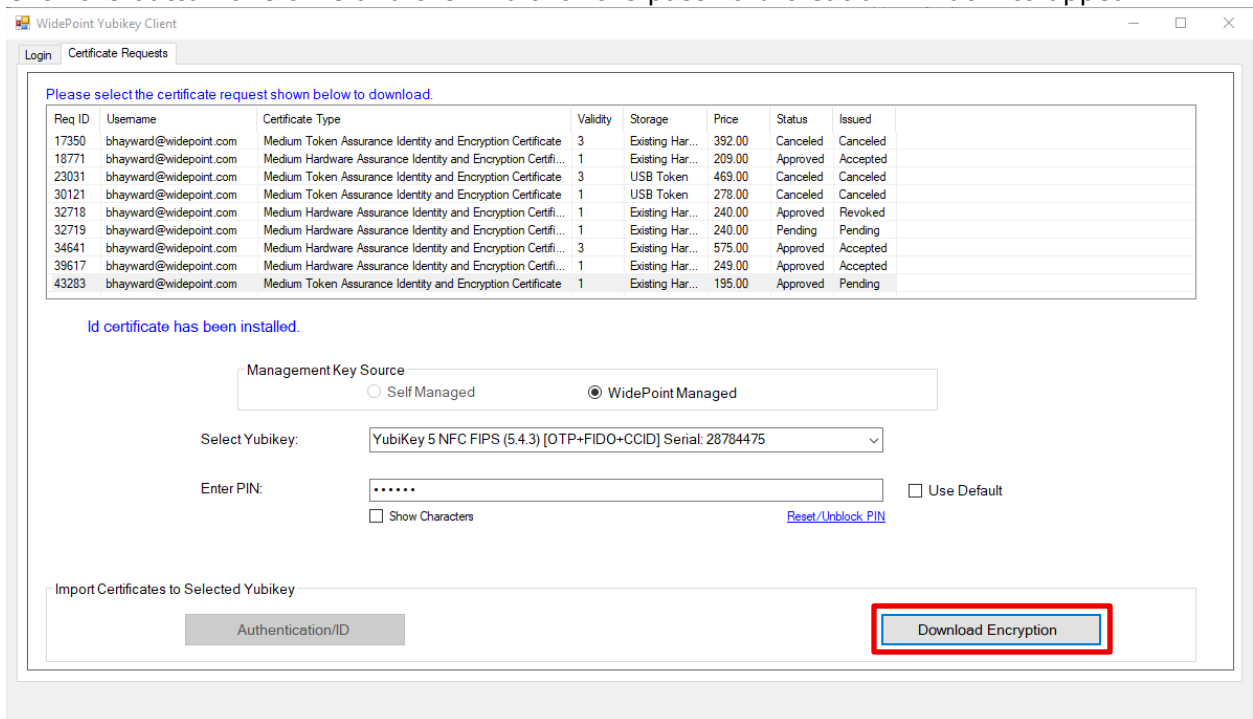
- Create a text document labeled "ECA Encryption Password" and enter in your desired password. The password will be copy and pasted directly from this text document. The password must follow the requirements below.
 - 8 – 25 characters long
 - At least 1 uppercase and 1 lower case letter
 - At least 1 number
 - At least 1 special character (!, %, &, @, #, \$, ^, *, ?, _ , ~)
- Save the document in a secure place where you will be able to find it in the future. You can save it temporarily into the Public Documents folder, C:\Users\Public\Documents, as this is where the encryption certificate will download.

ECA Certificate Installation onto a YubiKey

- c. Highlight the password and copy it; Make sure that only the password is copied and no other characters. The password shown should NOT be used, this is just to show a possible password.



5. **Select "Download Encryption" to begin downloading the Encryption Certificate.** Click the button one time and then wait for the password creation window to appear.



ECA Certificate Installation onto a YubiKey

- a. Wait for the password creation window to appear and then paste in the password that you created during the previous step. Select Continue.

The screenshot shows a window titled "Password" with a central box titled "Enter P12 Password". Inside this box, there are two text input fields: "Password" and "Confirm Password". Below these fields is a button labeled "Continue".

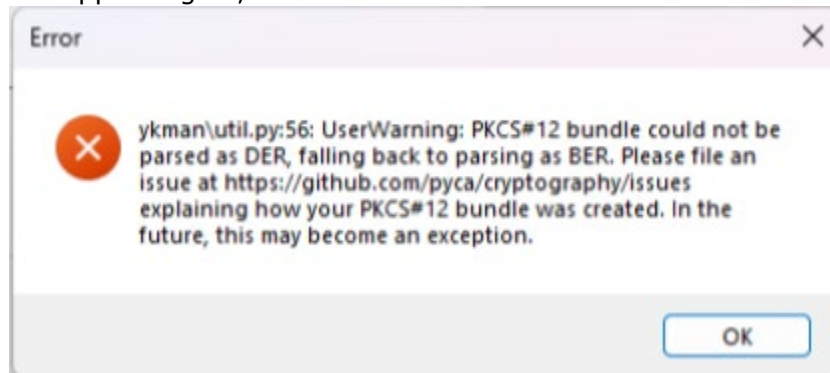
- b. Wait for the following message to dissapear.

The screenshot shows the "WidePoint Yubikey Client" window. It has tabs for "Login" and "Certificate Requests". The "Certificate Requests" tab is active, displaying a table of certificate requests. Below the table, there is a red message: "Please wait...Encryption certificate is being downloaded." Underneath this message, there are options for "Management Key Source" (Self Managed or WidePoint Managed), a "Select Yubikey:" dropdown menu, an "Enter PIN:" field, and checkboxes for "Show Characters" and "Use Default". At the bottom, there is a section "Import Certificates to Selected Yubikey" with buttons for "Authentication/ID" and "Download Encryption".

Req ID	Username	Certificate Type	Validity	Storage	Price	Status	Issued
17350	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	Existing Har...	392.00	Canceled	Canceled
18771	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	209.00	Approved	Accepted
23031	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	USB Token	469.00	Canceled	Canceled
30121	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	USB Token	278.00	Canceled	Canceled
32718	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Approved	Revoked
32719	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Pending	Pending
34641	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	3	Existing Har...	575.00	Approved	Accepted
39617	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	249.00	Approved	Accepted
43283	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	195.00	Approved	Pending

ECA Certificate Installation onto a YubiKey

- c. You will see a warning message appear that looks like the image below. This is normal and expected. Please select "Ok" on the message, after clicking "Ok" it will appear again, select "Ok" a second time.



- d. Once you see the following message "Encryption certificate has been downloaded" then you can continue.

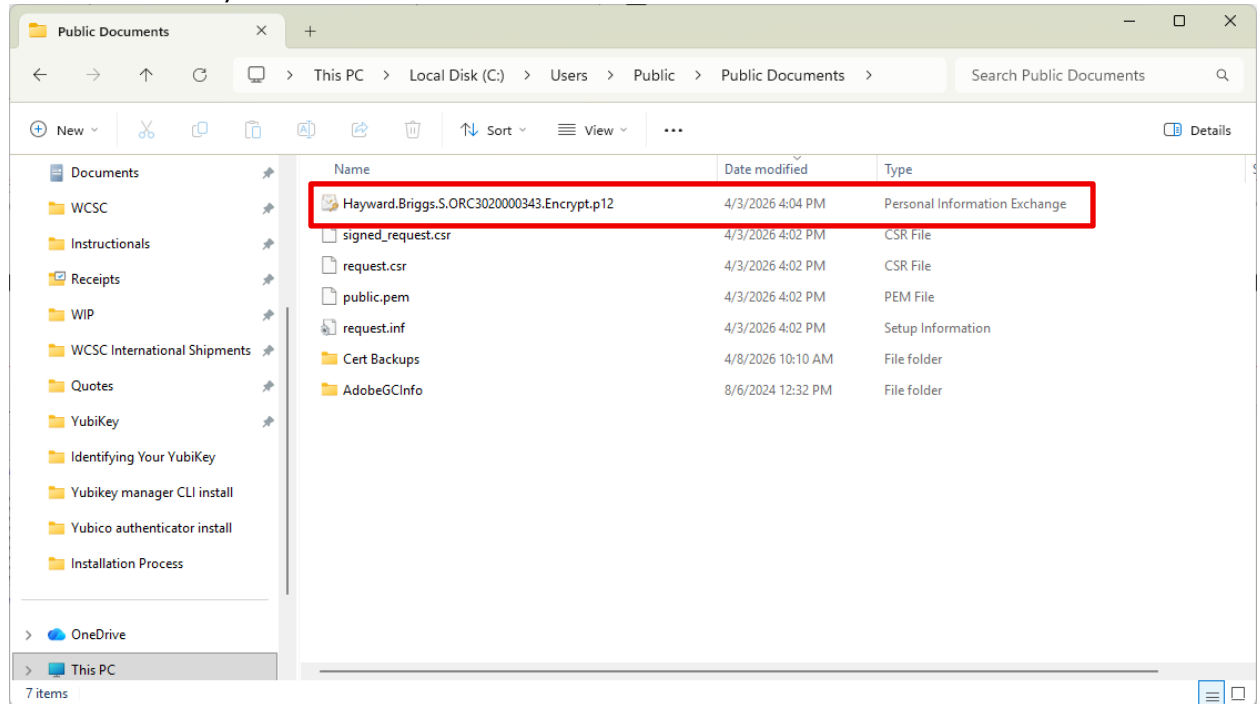
The screenshot shows the "WidePoint Yubikey Client" window. It has a "Login" tab and a "Certificate Requests" tab. Below the tabs, there is a message: "Please select the certificate request shown below to download." followed by a table of certificate requests.

Req ID	Username	Certificate Type	Validity	Storage	Price	Status	Issued
17350	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	Existing Har...	392.00	Canceled	Canceled
18771	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	209.00	Approved	Accepted
23031	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	3	USB Token	469.00	Canceled	Canceled
30121	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	USB Token	278.00	Canceled	Canceled
32718	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Approved	Revoked
32719	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	240.00	Pending	Pending
34641	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	3	Existing Har...	575.00	Approved	Accepted
39617	bhayward@widepoint.com	Medium Hardware Assurance Identity and Encryption Certifi...	1	Existing Har...	249.00	Approved	Accepted
43283	bhayward@widepoint.com	Medium Token Assurance Identity and Encryption Certificate	1	Existing Har...	195.00	Approved	Pending

Below the table, there is a message: "Encryption certificate has been downloaded." followed by a section for "Management Key Source" with two radio buttons: "Self Managed" and "WidePoint Managed" (selected). Below this is a "Select Yubikey:" dropdown menu showing "YubiKey 5 NFC FIPS (5.4.3) [OTP+FIDO+CCID] Serial: 28784475". There is an "Enter PIN:" field with a masked input "....." and a "Show Characters" checkbox. A "Reset/Unblock PIN" link is also present. At the bottom, there is a section "Import Certificates to Selected Yubikey" with two buttons: "Authentication/ID" and "Download Encryption".

ECA Certificate Installation onto a YubiKey

- e. The Encryption key is escrowed to your Public Documents folder on your machine, for use if the YubiKey is ever lost. This key is able to be installed onto your machine to be able to open previously encrypted emails that were encrypted with the lost YubiKey. The password that you set to the file in the previous steps will be necessary for the future use of this file.



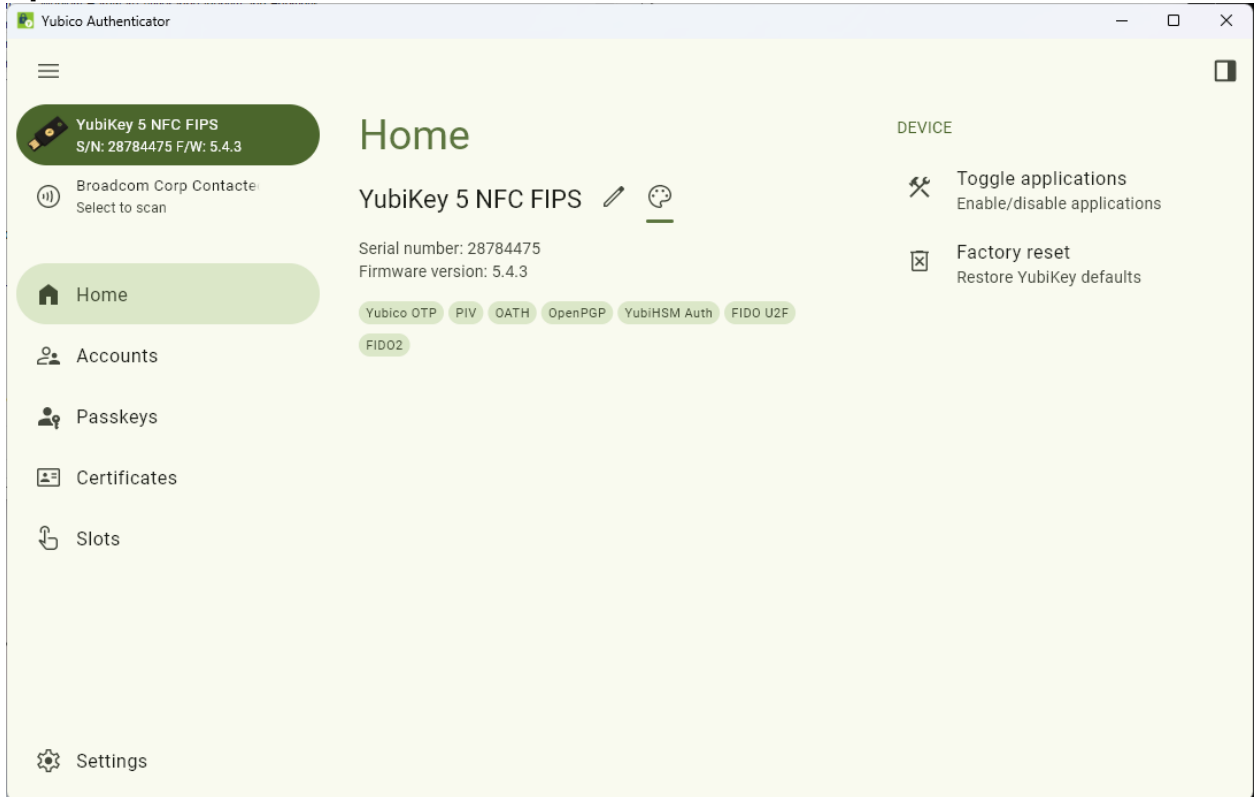
6. Proceed to the [Verify Certificate Installation](#) task.

Verify Certificate Installation

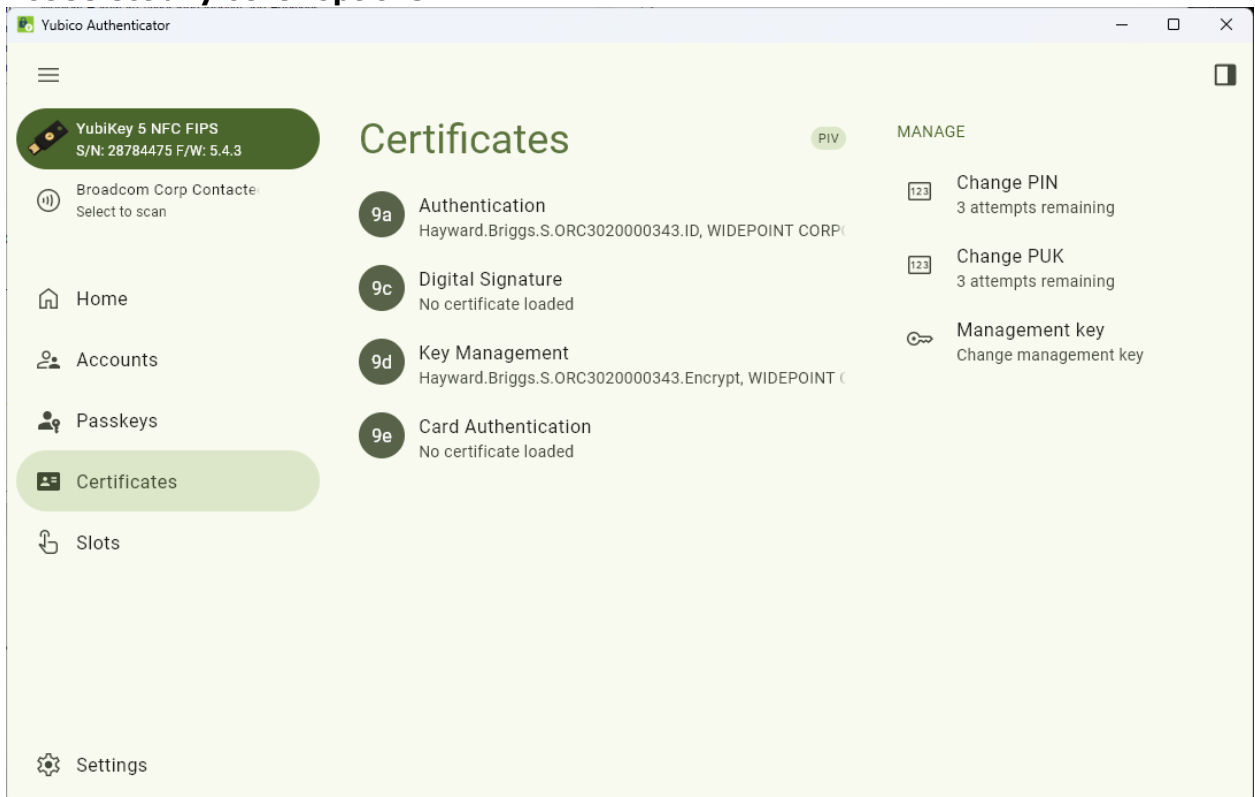
The following steps will walk you through verifying that the certificates were installed onto the FIPS YubiKey successfully.

ECA Certificate Installation onto a YubiKey

1. Open the Yubico Authenticator.



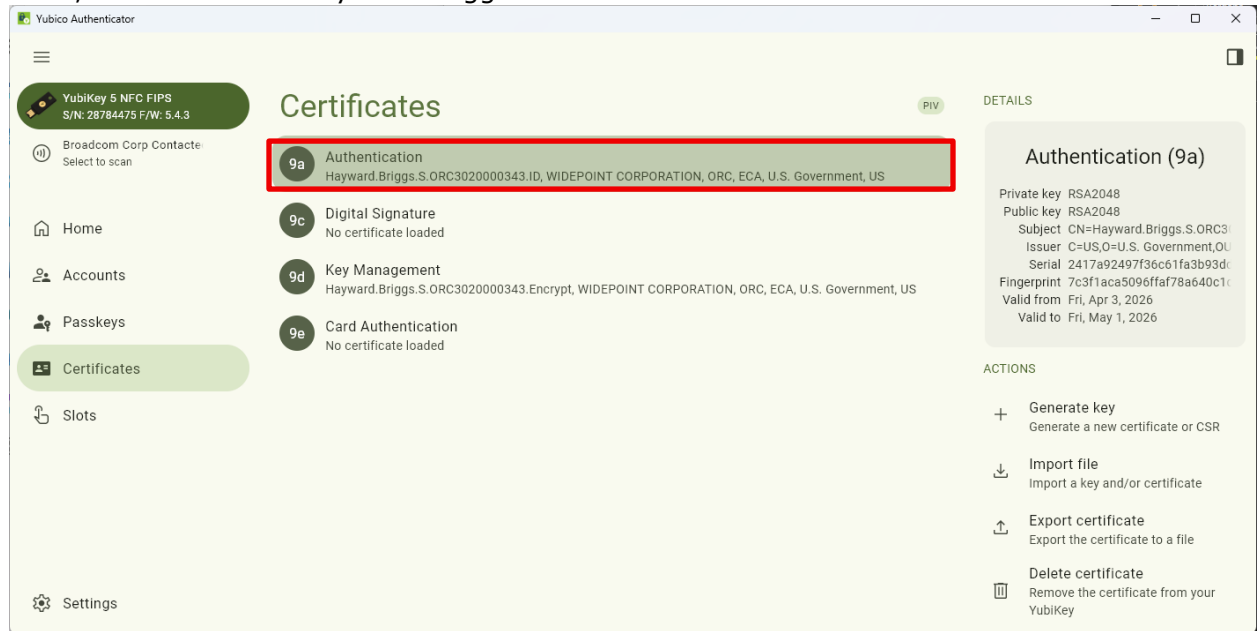
2. Select "Certificates" on the left side of the application window. be careful to not select any other options.



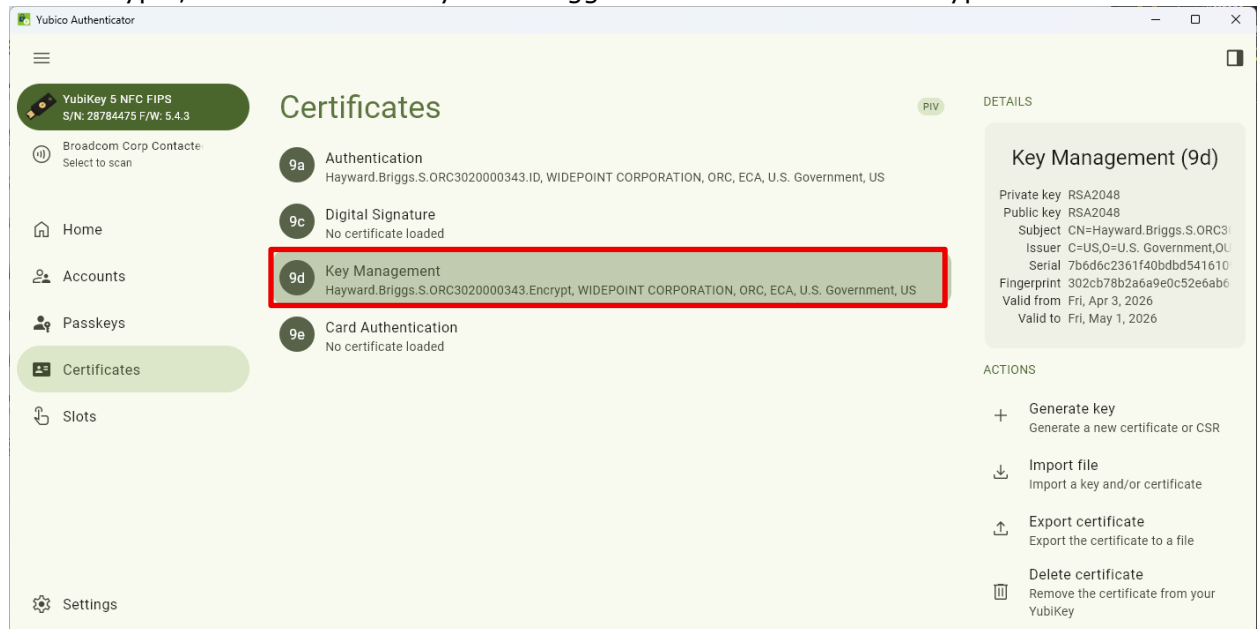
ECA Certificate Installation onto a YubiKey

3. Confirm that each certificate is in its correct slot.

- a. The Authentication slot should hold a certificate with your name on it and ends in ".ID", similar to this: Hayward.Briggs.S.ORB3020000343.ID



- b. The Key Management slot should hold a certificate with your name on it and ends in ".Encrypt", similar to this: Hayward.Briggs.S.ORB3020000343.Encrypt



- c. Confirm that the expiration date on each certificate looks correct.

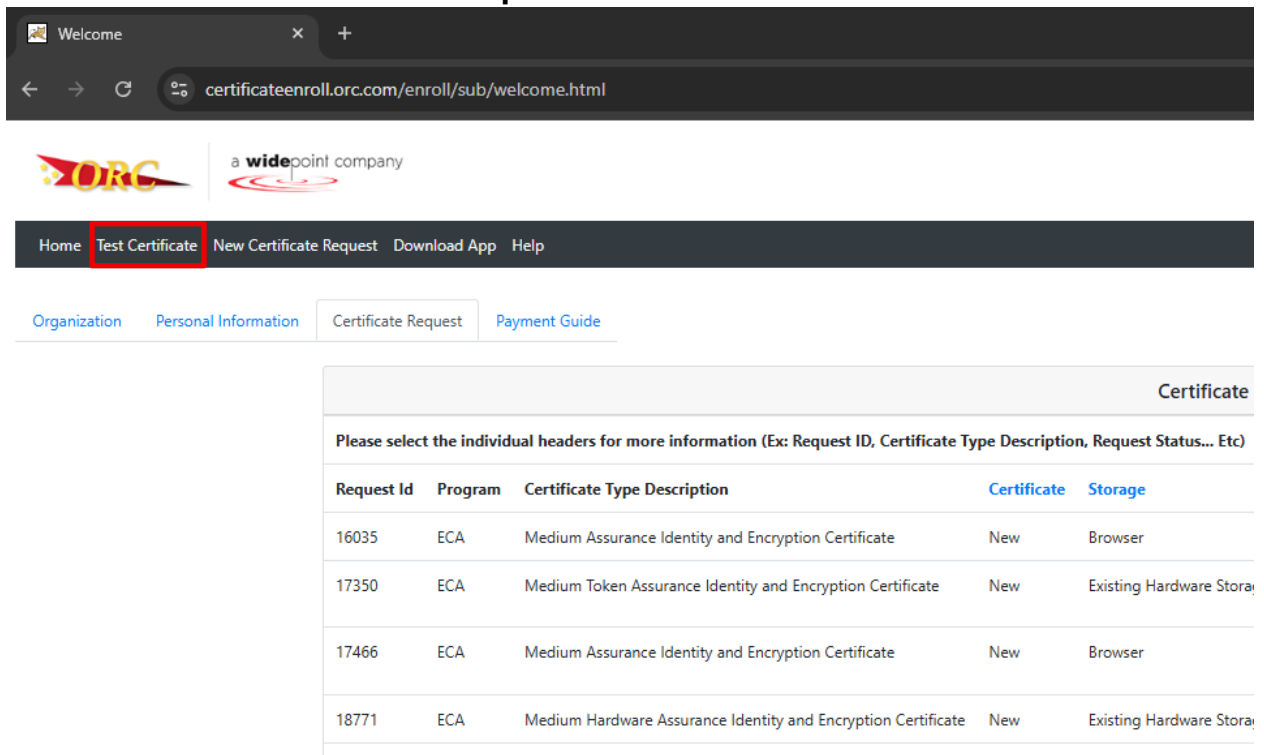
4. Proceed to the [Testing and Accepting your Certificate](#) task.

Testing and Accepting your Certificate

The following steps will walk you through testing your certificate. You will “Accept” your certificate through our subscriber home page. If this process is not possible, that is fine, as it is not a vital part of the process. This part of the process just informs my team that your certificates were installed correctly.

Important Note: Some companies cannot accept or test their certificates on our websites, due to their IT security programs on their computer. If this is the case, please attempt to access the DoD website you need access to using your certificate.

1. **Go to the Widepoint subscriber home page [here](#) and login.**
2. **Select “Test Certificate” in the top left.**



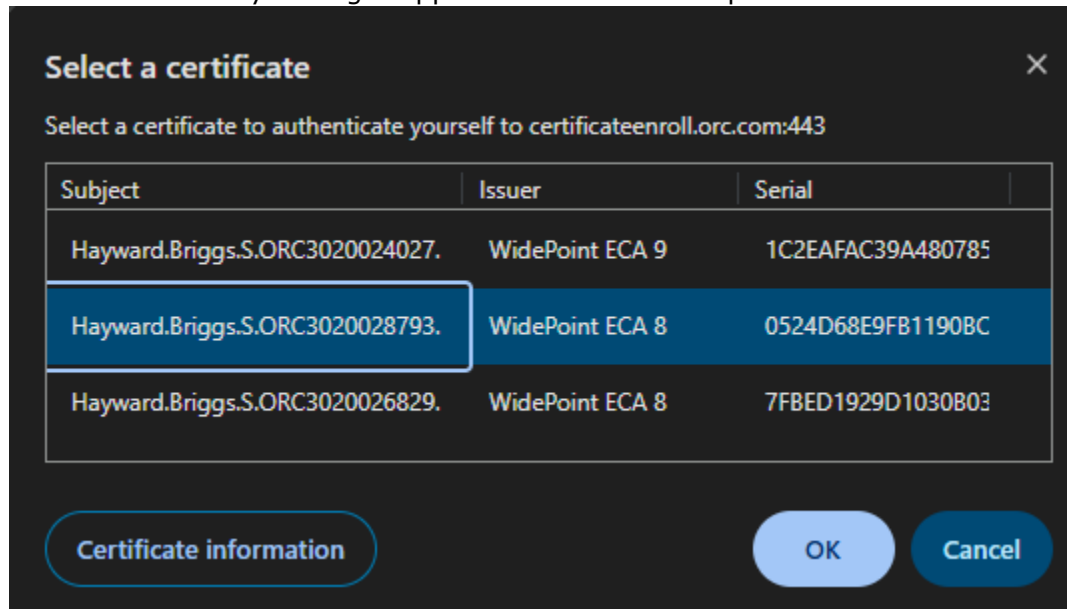
The screenshot shows a web browser window with the URL certificateenroll.orc.com/enroll/sub/welcome.html. The page header includes the ORC logo and the text "a widepoint company". The navigation bar contains links: Home, Test Certificate (highlighted with a red box), New Certificate Request, Download App, and Help. Below the navigation bar, there are tabs for Organization, Personal Information, Certificate Request, and Payment Guide. The main content area displays a table of certificates.

Certificate				
Please select the individual headers for more information (Ex: Request ID, Certificate Type Description, Request Status... Etc)				
Request Id	Program	Certificate Type Description	Certificate	Storage
16035	ECA	Medium Assurance Identity and Encryption Certificate	New	Browser
17350	ECA	Medium Token Assurance Identity and Encryption Certificate	New	Existing Hardware Storage
17466	ECA	Medium Assurance Identity and Encryption Certificate	New	Browser
18771	ECA	Medium Hardware Assurance Identity and Encryption Certificate	New	Existing Hardware Storage

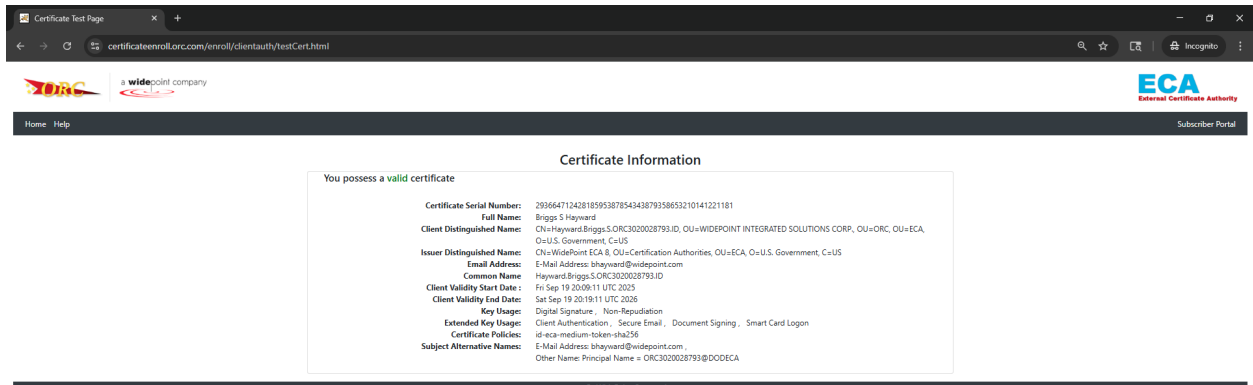
ECA Certificate Installation onto a YubiKey

3. **Select the correct certificate from the window that appears and select OK. Type in your PIN.**

You can confirm that the correct certificate is being selected by verifying that the string of numbers in the Subject line section matches up to the certificate Subject name within the Yubico YubiKey Manager app that we used in the previous section.



4. **You should now see a screen similar to what is shown below.**



ECA Certificate Installation onto a YubiKey

5. Select "Home" in the top left corner and go back to the subscriber home page. Select the green button "Accept Cert" that is to the right of your newly installed request.

You will not have as many request IDs, the account below is a WidePoint employee's. Your "Accept Cert" button should be on the most recent request at the bottom of the list. If you select an older certificates "Accept Cert" button you will be given an error.

The screenshot shows the WidePoint Certificate Enrollment System (CES) interface. The top navigation bar includes links for Organization, Personal Information, Certificate Request, and Payment Guide. The main content area is titled "Certificate Request" and contains a table of requests. The table has columns for Request ID, Program, Certificate Type Description, Certificate, Storage, Validity, Expedited, Price, Request Status, Certificate Status, Certificate Expiry Date, and Action. The most recent request (Request ID 43283) is highlighted with a red box, and its "Accept Cert" button is also highlighted with a red box.

Request ID	Program	Certificate Type Description	Certificate	Storage	Validity	Expedited	Price	Request Status	Certificate Status	Certificate Expiry Date	Action
16035	ECA	Medium Assurance Identity and Encryption Certificate	New	Browser	1 Year	No	\$122.0	Approved	Accepted	2024-09-06 14:16:39.0	Print Form
17350	ECA	Medium Token Assurance Identity and Encryption Certificate	New	Existing Hardware Storage/USB	3 Years	Yes	\$441.0	Canceled	Canceled		Print Form
17466	ECA	Medium Assurance Identity and Encryption Certificate	New	Browser	1 Year	No	\$122.0	Canceled	Canceled		Print Form
18771	ECA	Medium Hardware Assurance Identity and Encryption Certificate	New	Existing Hardware Storage/USB	1 Year	No	\$209.0	Approved	Accepted	2024-11-10 17:19:07.0	
23031	ECA	Medium Token Assurance Identity and Encryption Certificate	New	USB Token	3 Years	No	\$469.0	Canceled	Canceled		Print Form
30121	ECA	Medium Token Assurance Identity and Encryption Certificate	New	USB Token	1 Year	No	\$278.0	Canceled	Canceled		Print Form
32718	ECA	Medium Hardware Assurance Identity and Encryption Certificate	Renewal 1	Existing Hardware Storage/USB	1 Year	No	\$240.0	Approved	Revoked	2025-11-10 12:17:16.0	
32719	ECA	Medium Hardware Assurance Identity and Encryption Certificate	Renewal 1	Existing Hardware Storage/USB	1 Year	No	\$240.0	Pending	Pending		Print Form Pay Now
32766	ECA	Medium Assurance Identity and Encryption Certificate	New	Browser	1 Year	Yes	\$188.0	Approved	Accepted	2025-11-05 21:23:02.0	
34641	ECA	Medium Hardware Assurance Identity and Encryption Certificate	New	Existing Hardware Storage/USB	3 Years	Yes	\$624.0	Approved	Accepted	2027-12-16 18:43:23.0	
39617	ECA	Medium Hardware Assurance Identity and Encryption Certificate	New	Existing Hardware Storage/USB	1 Year	Yes	\$298.0	Approved	Accepted	2026-05-28 20:22:23.0	
43283	ECA	Medium Token Assurance Identity and Encryption Certificate	New	Existing Hardware Storage/USB	1 Year	No	\$195.0	Approved	Issued	2026-09-19 20:41:28.0	Accept Cert

Certificate Renewal

To renew Medium hardware or Token certificates, make sure you have your card reader connected to your computer and smart card is in the reader and then click the button below.

[Click here To Renew Certificate](#)

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ECA Certificate Installation onto a YubiKey

6. Verify that the "Full Name" and "Email Address" section are correct on this screen, then select the white check box in the bottom left, and then select the "Accept Certificate" button at the bottom of the screen.

Certificate Acceptance

You possess a **valid** certificate

Certificate Serial Number:	29366471242818595387854343879358653210141221181
Full Name:	Briggs S Hayward
Client Distinguished Name:	CN=Hayward.Briggs.S.ORB3020028793.ID, OU=WIDEPOINT INTEGRATED SOLUTIONS CORP., OU=ORC, OU=ECA, O=U.S. Government, C=US
Issuer Distinguished Name:	CN=WidePoint ECA 8, OU=Certification Authorities, OU=ECA, O=U.S. Government, C=US
Email Address:	E-Mail Address: bhayward@widepoint.com
Common Name:	Hayward.Briggs.S.ORB3020028793.ID
Client Validity Start Date:	Fri Sep 19 20:09:11 UTC 2025
Client Validity End Date:	Sat Sep 19 20:19:11 UTC 2026
Key Usage:	Digital Signature, Non-Repudiation
Extended Key Usage:	Client Authentication, Secure Email, Document Signing, Smart Card Logon
Certificate Policies:	id-eca-medium-token-sha256
Subject Alternative Names:	E-Mail Address: bhayward@widepoint.com, Other Name: Principal Name = ORC3020028793@DODECA

☐ Informations in the certificate are correct and I accept the certificate.

Accept Certificate

That ends the process of installing ECA Certificates onto a FIPS YubiKey.
If you need further guidance, please contact wcsc.helpdesk@widepoint.com.