



How to Get 16 Digit UPN from CAC Card

How to export a PIV Certificate

User Guide



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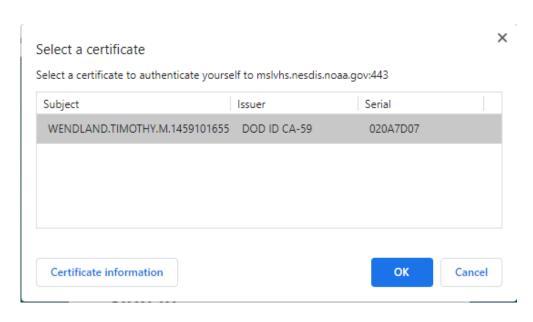
1. Why this Guide?

- 1. This guide is designed to help all GeoCloud Service Developers and Administrators VPN access to export their CAC's or PIV certificates. There are two categories of cards that may be used. A NOAA CAC or a NASA PIV card.
 - -Users with a NOAA CAC card need to follow instruction items 2 and 3.
 - -Users with a NASA PIV card need to follow instruction item 4 to extract your PIV certificate.

2. How to Export your CAC Certificate

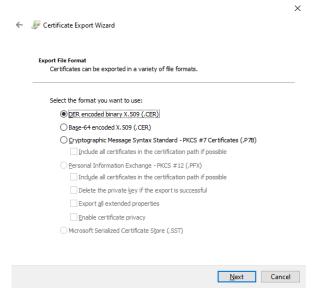
This section will show you how to export your CAC certificate.

- 1. Insert CAC card in card reader or laptop
- 2. Use your internet browser to obtain and download the certificate?
 - For "Microsoft Edge" go to "System > Privacy, search, and services > Security > Manage certificates"
 - -or for "Internet Explorer" go to "Internet Options > Content > Certificates > Personal"



- 4. In the "Certificates Window", select your certificate where it says DOD ID CA-<#>.
 - Make sure that when you click on it in the window below it says
 Certificate Intended purposes: Smart Card Logon, Client Authentication
- 5. Click the "Export" button.

6. The Certificate Export Wizard window will open, select Next and continue to select Next until you reach Export File Format. On Export File Format make sure the file format is DER, Select browse and then where you want to save the file lastly name the file name.upn.der (it will save with .cer on the end) and click Next, before selecting Finish.



- 7. Email the saved certificate to admin.geocloud@noaa.gov
 - You may need to change the file extension to .txt to bypass the email client from removing the attachment (i.e. save file as .txt)

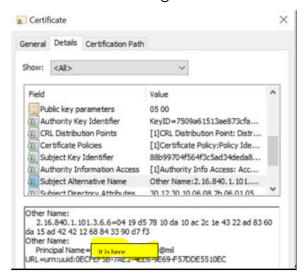
3. How to Get your UPN

Your certificate will now be wherever you saved it.

1. Double click your certificate to open it

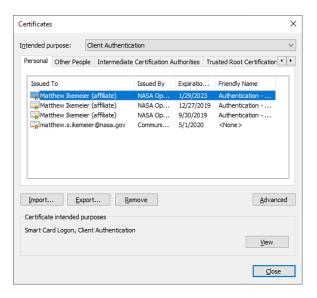


- 2. Select the Details Tab
- 3. Scroll down to Subject Alternative Name and click it -In the window below you will see Principal Name = <16 digit #>@mil The 16 digit # is the UPN

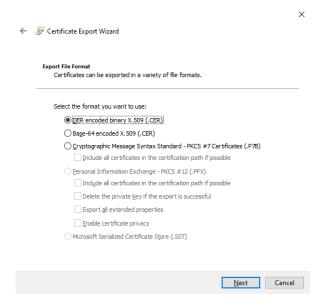


4. Exporting PIV Certificate For VPN Access

- This section will show you how to export your PIV Certificate for VPN Access.
- 2. Use your internet browser to obtain and download the certificate?
 - For "Microsoft Edge" go to "System > Privacy, search, and services > Security > Manage certificates"
 - -or for "Internet Explorer" go to "Internet Options > Content > Certificates > Personal"



- 3. Export this certificate using the Export Wizard
 - Select the DER encoded binary X.509 option



4. Email the saved certificate along with your **AUID** to:

admin.geocloud@noaa.gov

 You may need to change the file extension to .txt to bypass the email client from removing the attachment (i.e. save file as .txt)

5. How to Export your Certificate when using MacOS

 For Mac OS Users who need to export their certificate follow the steps below.

- 2. Click the Launchpad icon in the Dock, type Terminal in the search field, then click Terminal to open a terminal.
- 3. Run the following in the terminal and provide the cert to the GeoCloud Admin team:

> pkcs15-tool --read-certificate 01

-The Output from the above command looks like the following:



4. Send the certificate to admin.geocloud@noaa.gov

For problems or concerns please contact admin.geocloud@noaa.gov