



## Over the Counter Channel Application (OTCnet)

### Development Treasury Root Certificate Installation

There are three primary tasks required in order to install the development Treasury root certificate onto a workstation:

1. Obtain the root certificate container files from the Treasury website. Two container files must be obtained, one for production and one for QA (i.e. Treasury Development).
2. Export the Treasury root certificates from the certificate container files.
3. Import the Treasury root certificates into the local computer certificate/trust store.

This document details the steps involved with each of these tasks and assumes that the tasks will be performed while logged into the workstation as a workstation administrator. This document is applicable for a Windows XP workstation. Please refer to the "RootCertificateInstall-Vista.docx" document for performing the tasks on a Vista or Windows 7 workstation.

Note that the two root certificate container files obtained from the Treasury website both contain multiple certificates, but OTCnet only requires the root certificates to be imported. Since task 3 (certificate import) only allows the import of *all* certificates from a container file, task 2 (certificate export) is necessary in order to create container files containing only the required certificates.

## Task 1: Obtain the root certificate container files from the Treasury website

First, download the Treasury **production** root certificate container file onto the workstation from the following URL:

[https://pki.treas.gov/root\\_sia.p7b](https://pki.treas.gov/root_sia.p7b)

Click “yes” if prompted with a security alert. If a browser instance launches and displays a certificate error page, click “Continue to this website...” . Note that the security alert prompt and certificate error page is normal. These merely indicate that you have not yet installed the Production Treasury Root Certificates into your Trusted Root Certificate store. Note that as of December 2010, this URL points to a file that contains the SHA-1 keyed Production Treasury Root Certificates. The URL and/or certificates contained within are subject to change.

Next, download the Treasury **development** root certificate container file onto the workstation from the following URL:

[http://devpki.treas.gov/devroot\\_sia.p7b](http://devpki.treas.gov/devroot_sia.p7b)

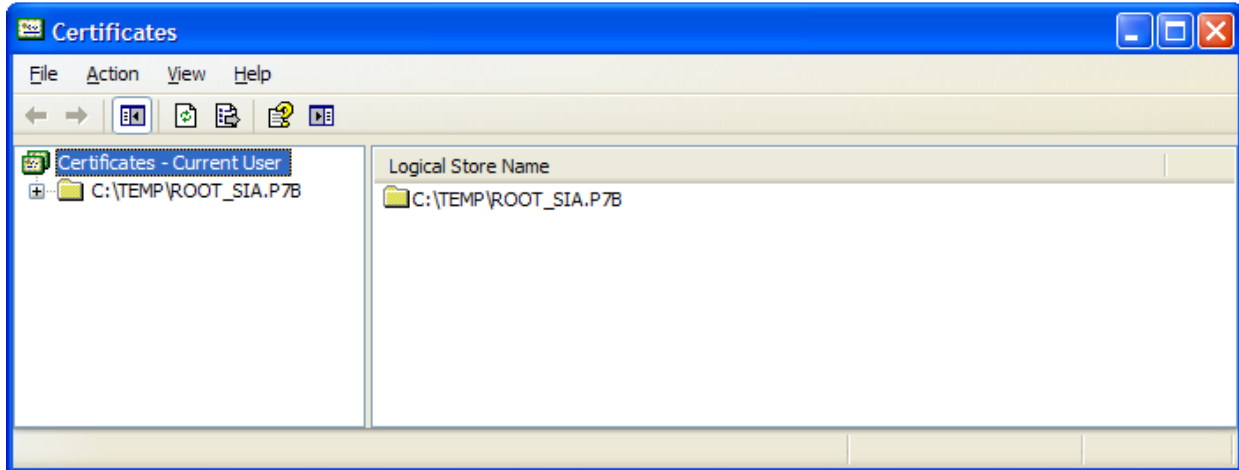
Note that as of December 2010, this URL points to a file that contains the SHA-1 keyed Development Treasury Root Certificate. The URL and/or certificates contained within are subject to change.

## Task 2: Export the Treasury root certificate from the certificate container file

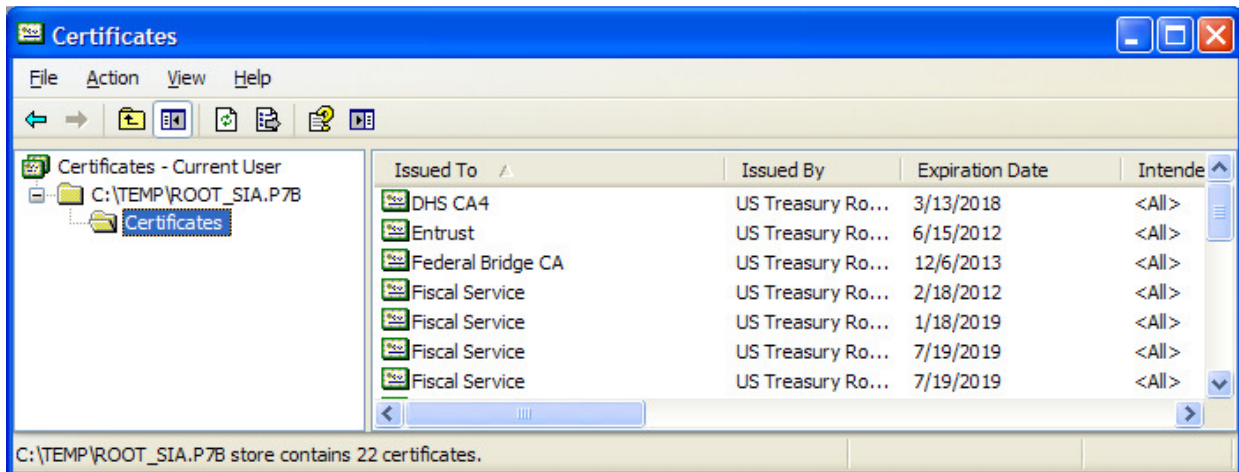
### Export the Production Treasury Root Certificates

Double-click on the downloaded production certificate container file, **root\_sia.p7b**.

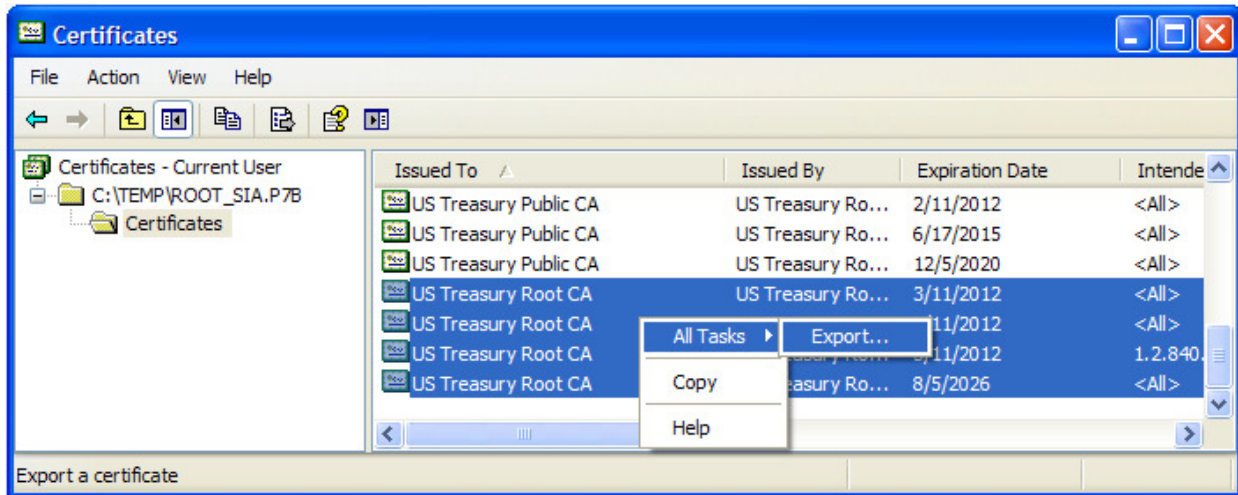
The following screen appears.



Navigate to "Certificates"



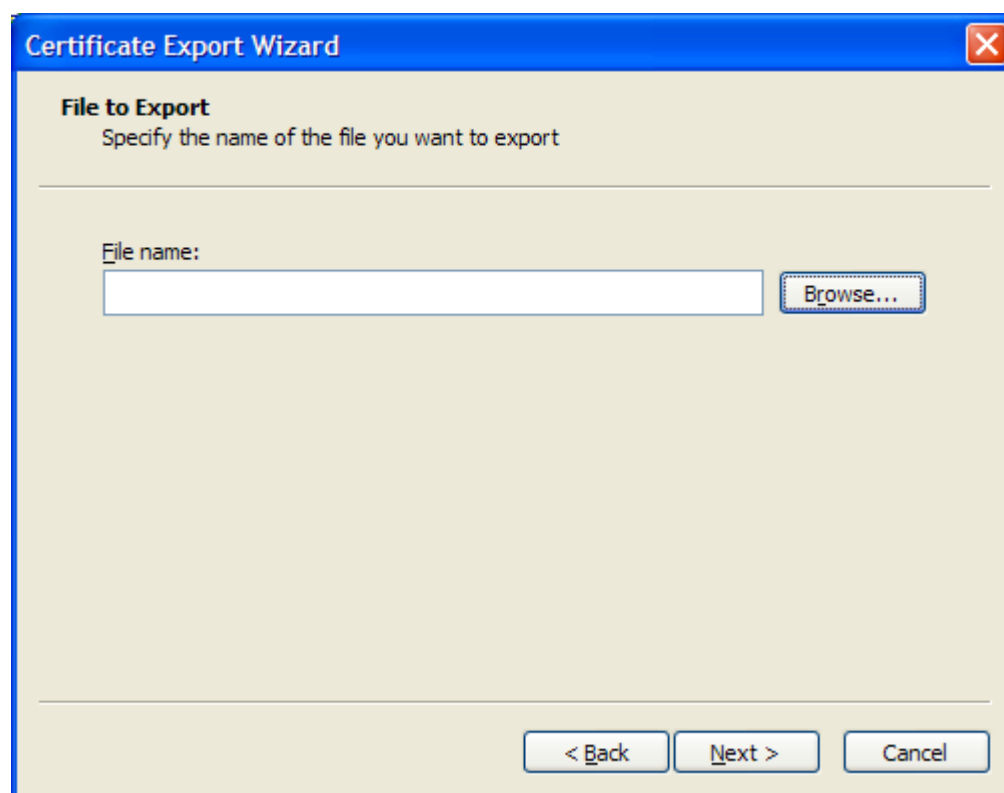
Scroll to the bottom of the list of certificates in the right pane, hold down the Ctrl key and select all four of the “US Treasury Root CA” items. Right-mouse click on the selected items and click “All Tasks -> Export...”



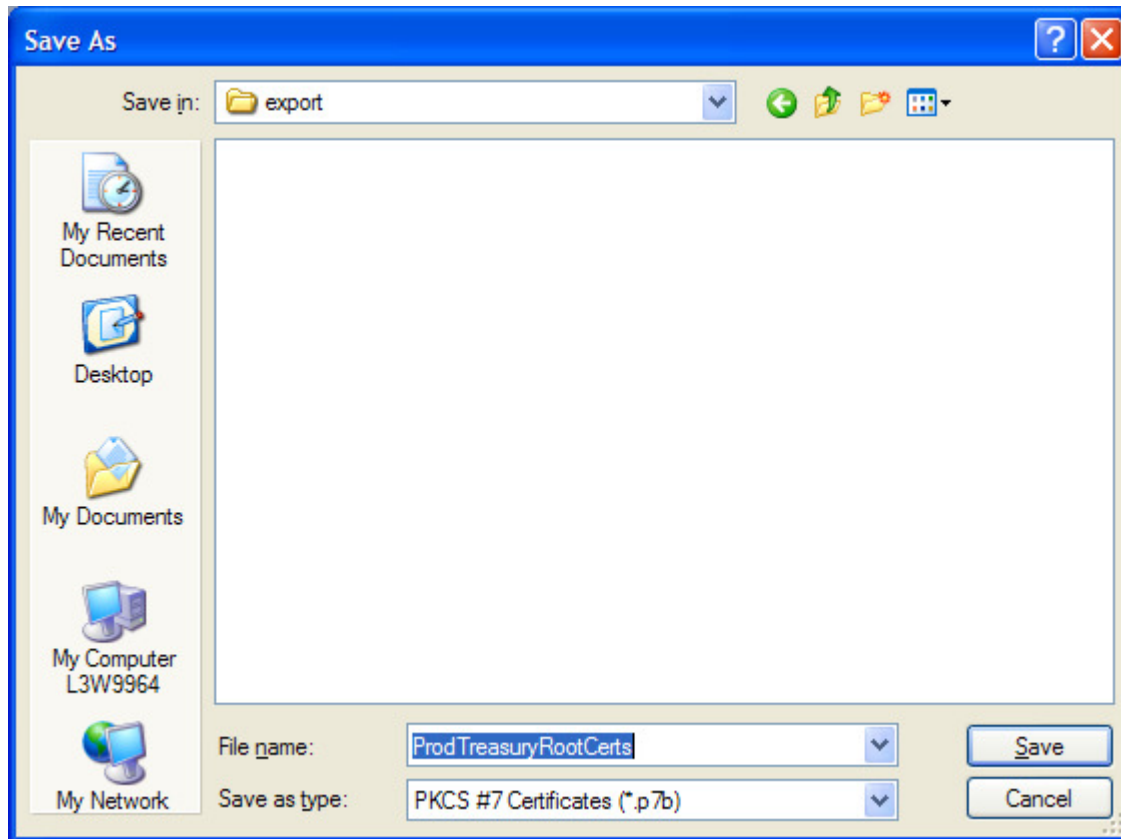
The Certificate Export Wizard displays. Click the “Next” button



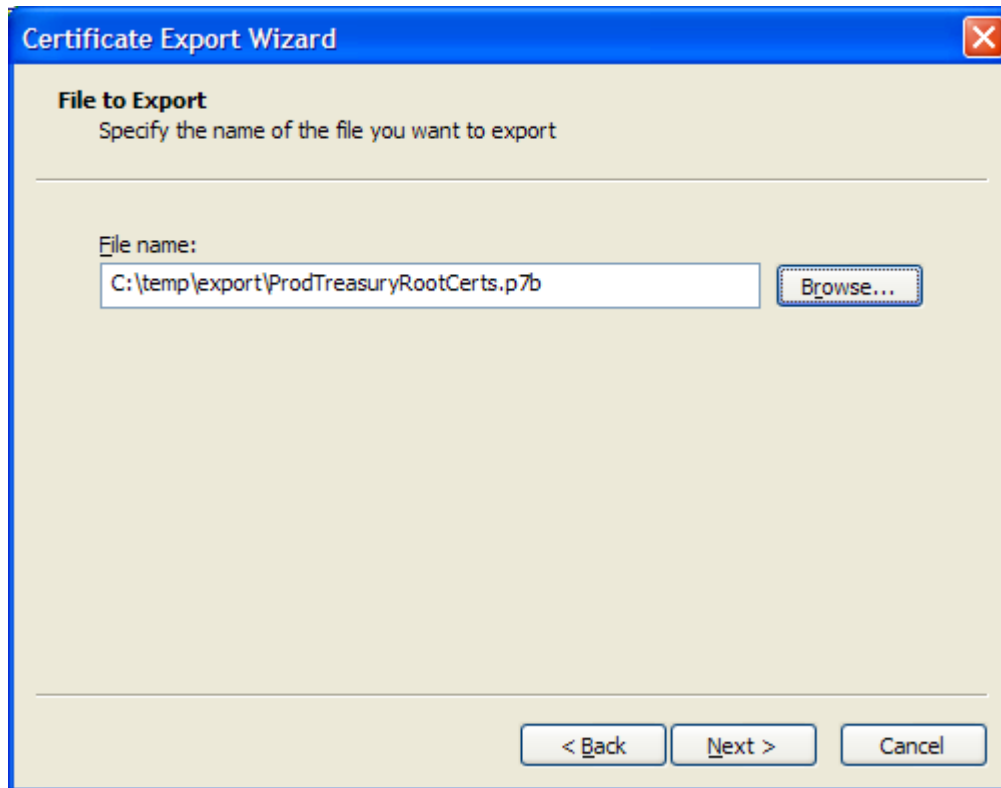
Click the “**Browse...**” button to specify the file name and folder of the export file



Type in file name and click the **“Save”** button



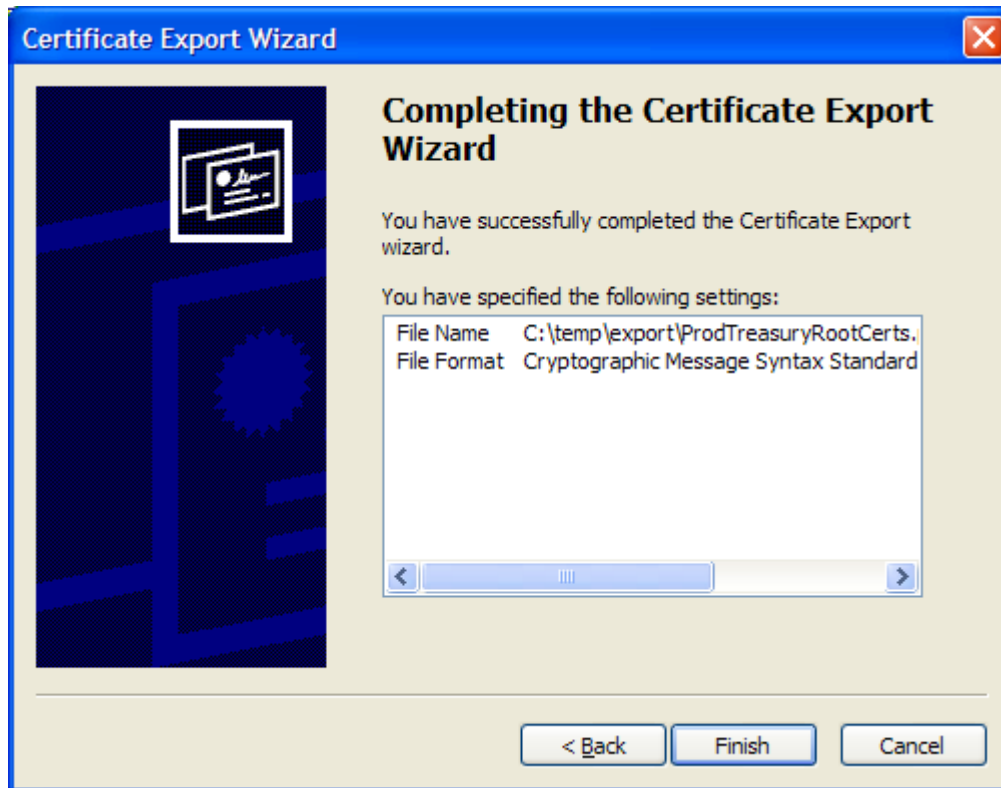
Confirm file name and click the “**Next**” button



The image shows a Windows dialog box titled "Certificate Export Wizard". The window has a blue title bar with a close button (X) in the top right corner. The main area is light beige and contains the following elements:

- File to Export**: A section header followed by the instruction "Specify the name of the file you want to export".
- File name:**: A text input field containing the path "C:\temp\export\ProdTreasuryRootCerts.p7b". To the right of the input field is a "Browse..." button.
- Navigation buttons**: At the bottom of the dialog, there are three buttons: "< Back", "Next >", and "Cancel".

Click the “**Finish**” button



You will see the following message if the export was successful.



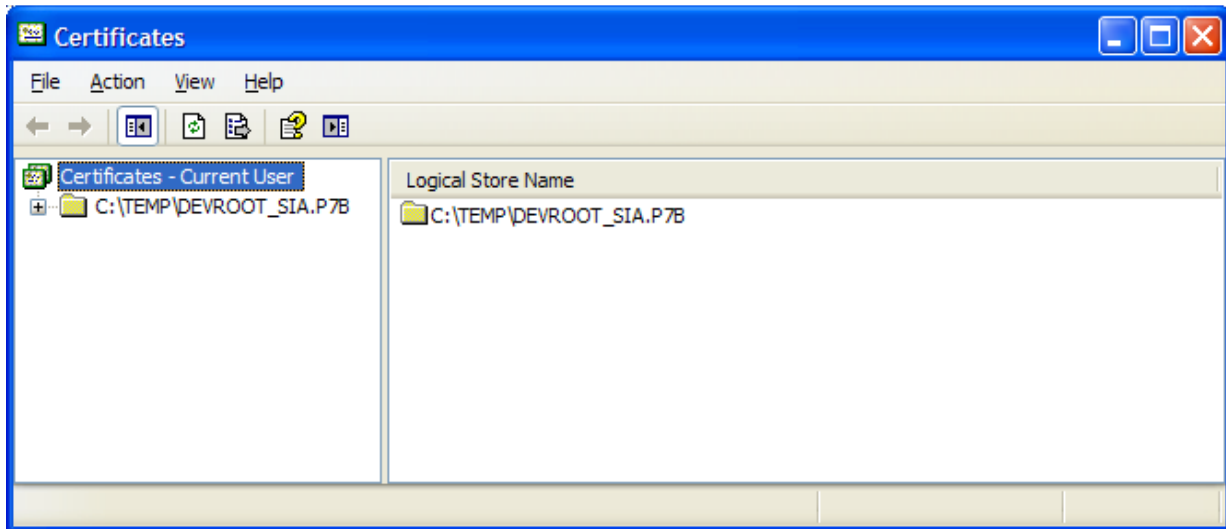
Close the “**Certificates**” application.



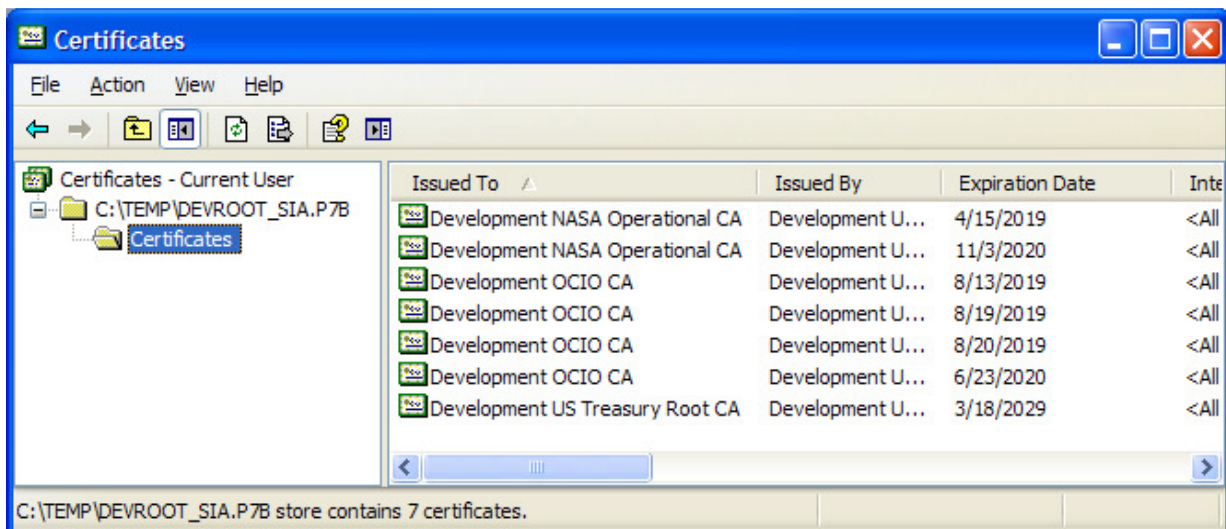
## Export the Development Treasury Root Certificate

Double-click on the downloaded development certificate container file, **devroot\_sia.p7b**.

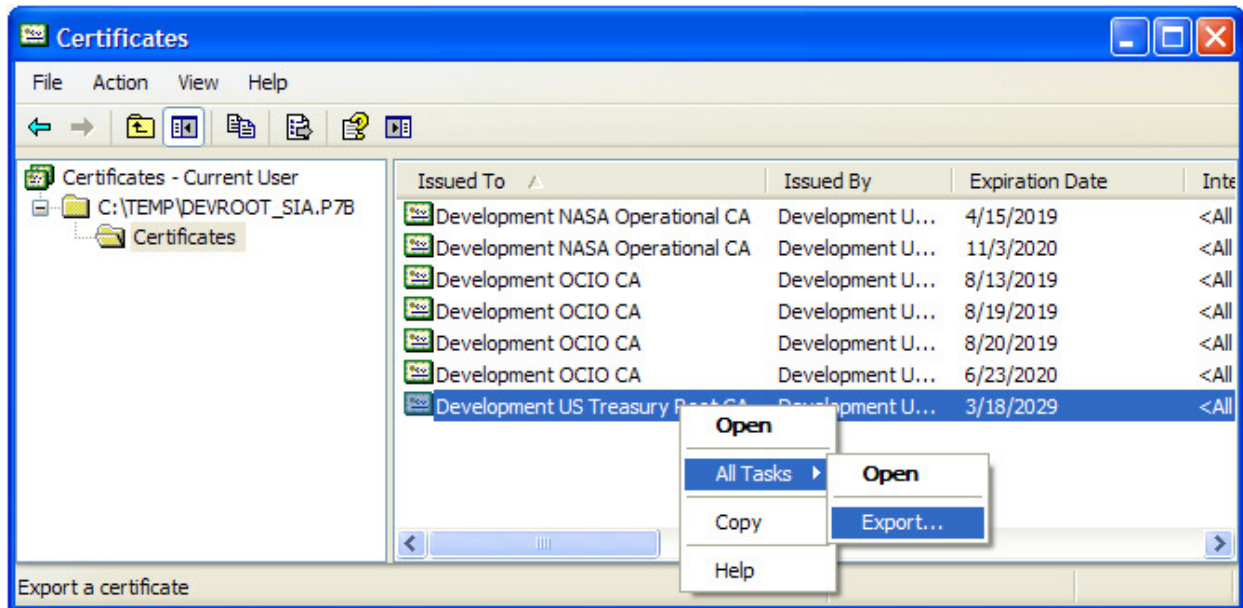
The following screen appears.



Navigate to "Certificates"



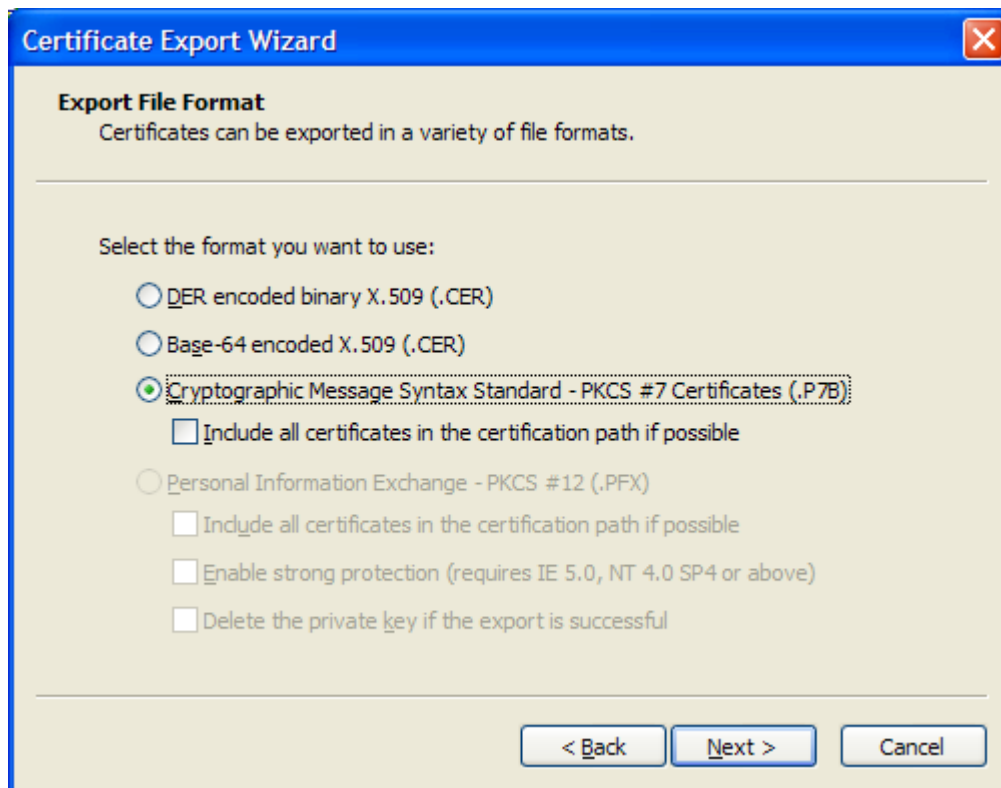
Select “Development US Treasury Root CA”, right-mouse click, select “All Tasks -> Export...”



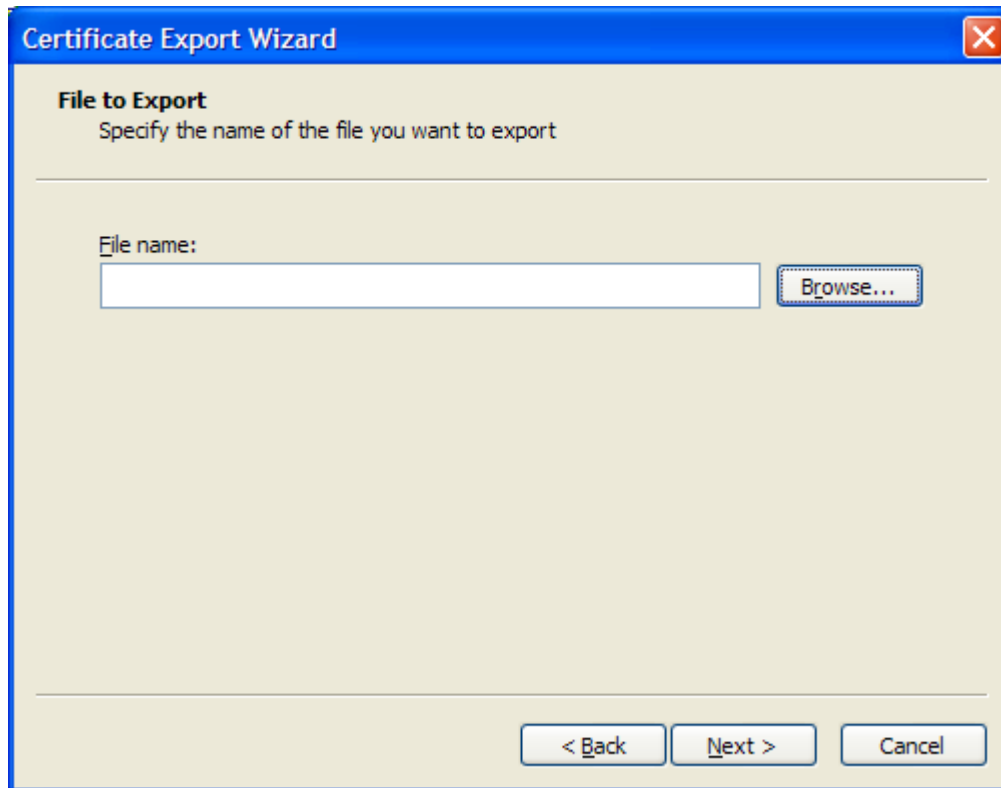
The Certificate Export Wizard displays. Click the “Next” button



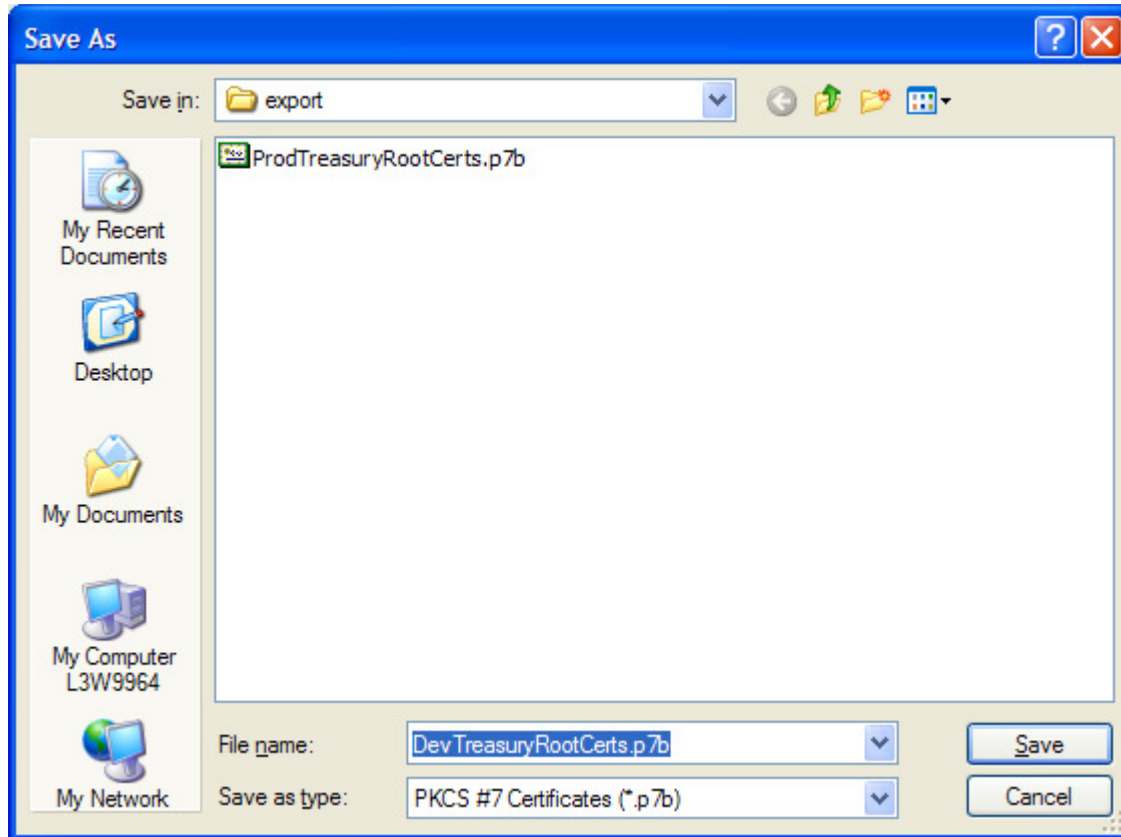
Select “**Cryptographic Message Syntax Standard – PKCS #7 Certificates (.P7B)**” and click the “**Next**” button. Note that this screen only appears when selecting a single certificate to export, as is the case for the Development Treasury Root Certificate (the .CER formats can only contain one certificate).



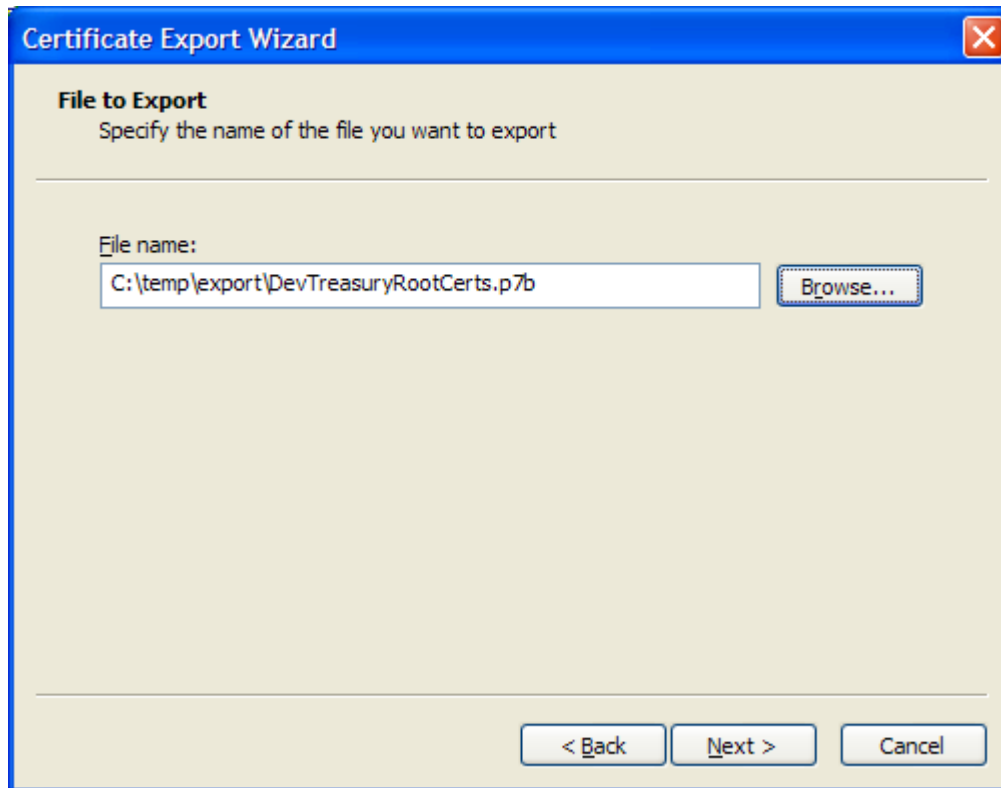
Click the “**Browse...**” button to specify the file name and folder of the export file



Type in file name and click the “**Save**” button. Ensure that the file name is different than the file name used for exporting the production certificates.



Confirm file name and click the “**Next**” button



The image shows a Windows dialog box titled "Certificate Export Wizard". The dialog has a blue title bar with a close button (X) in the top right corner. The main area is light beige and contains the following elements:

- File to Export**: A section header followed by the instruction "Specify the name of the file you want to export".
- File name:**: A label above a text input field.
- Text input field**: Contains the file path "C:\temp\export\DevTreasuryRootCerts.p7b".
- Browse...**: A button to the right of the text input field.
- Navigation buttons**: Three buttons at the bottom: "< Back", "Next >", and "Cancel".

Click the “**Finish**” button



You will see the following message if the export was successful.

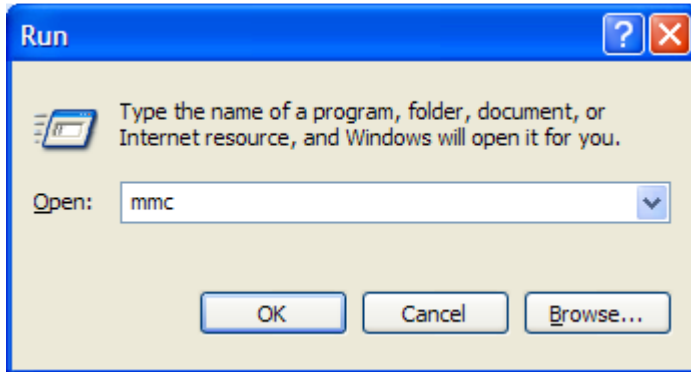


Close the “**Certificates**” application.

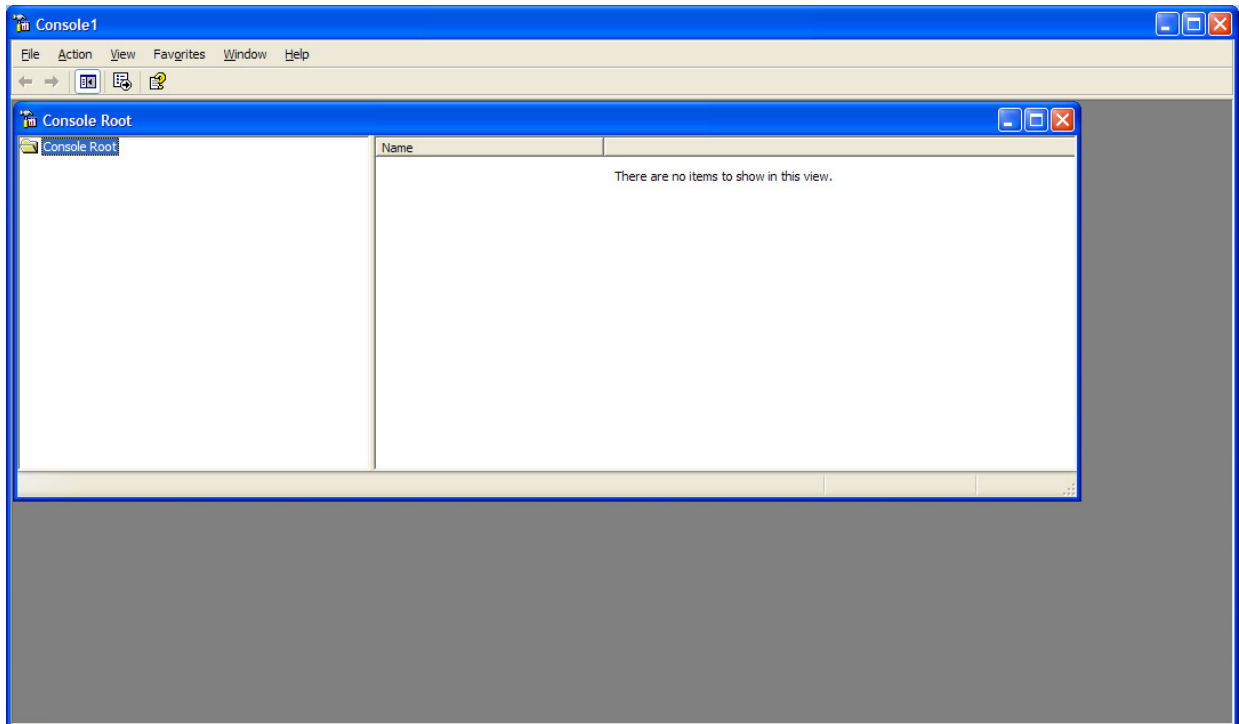
### Task 3: Import the Treasury Root Certificates into the local computer trust store

#### Import the Production Treasury Root Certificates

Click “Start -> Run...”, type “mmc” into the “Open” textbox and click “OK”

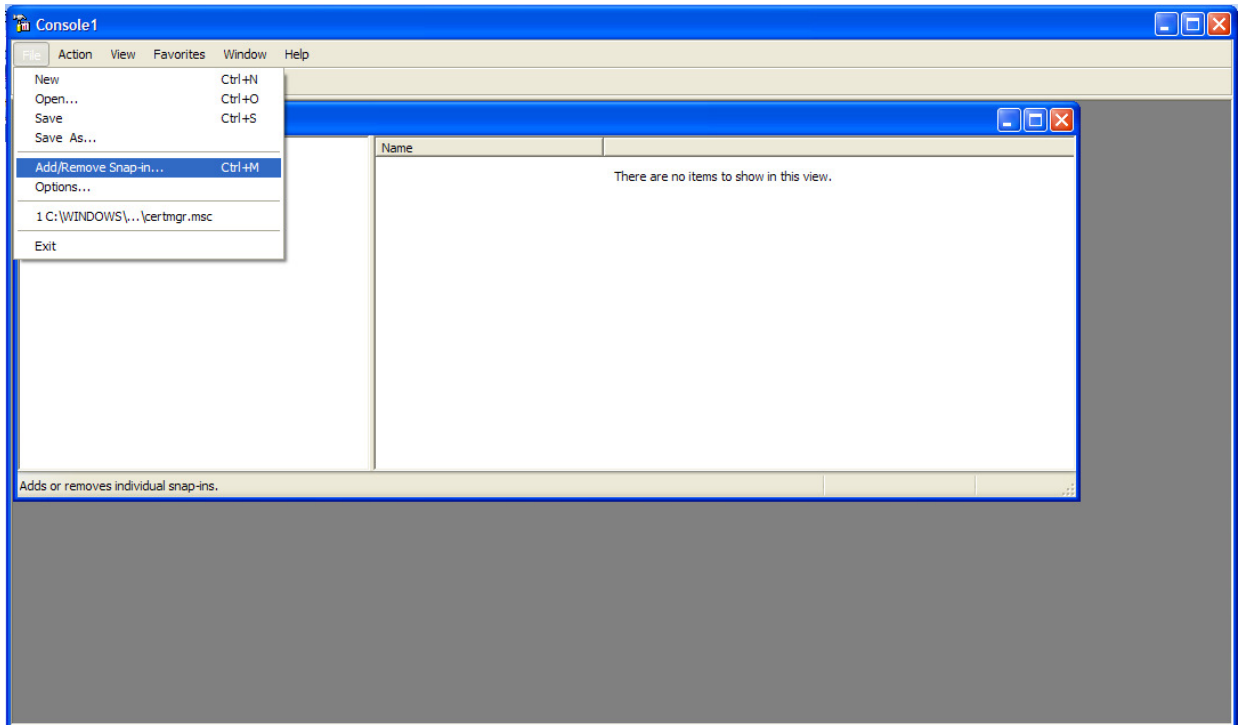


The following screen appears:

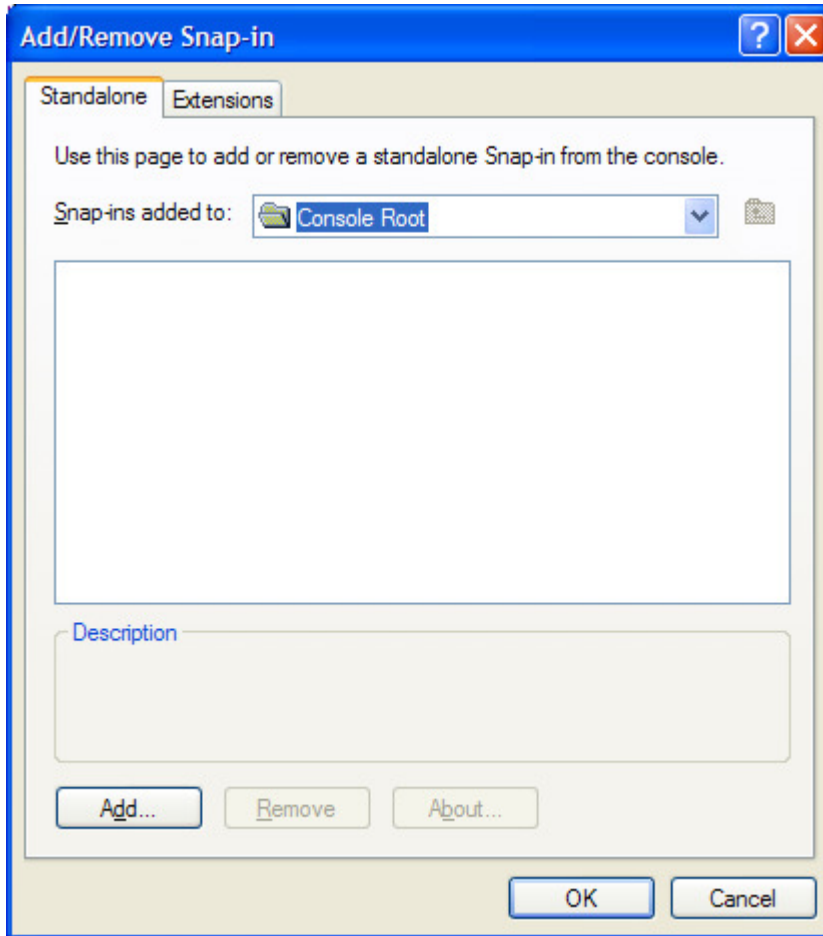




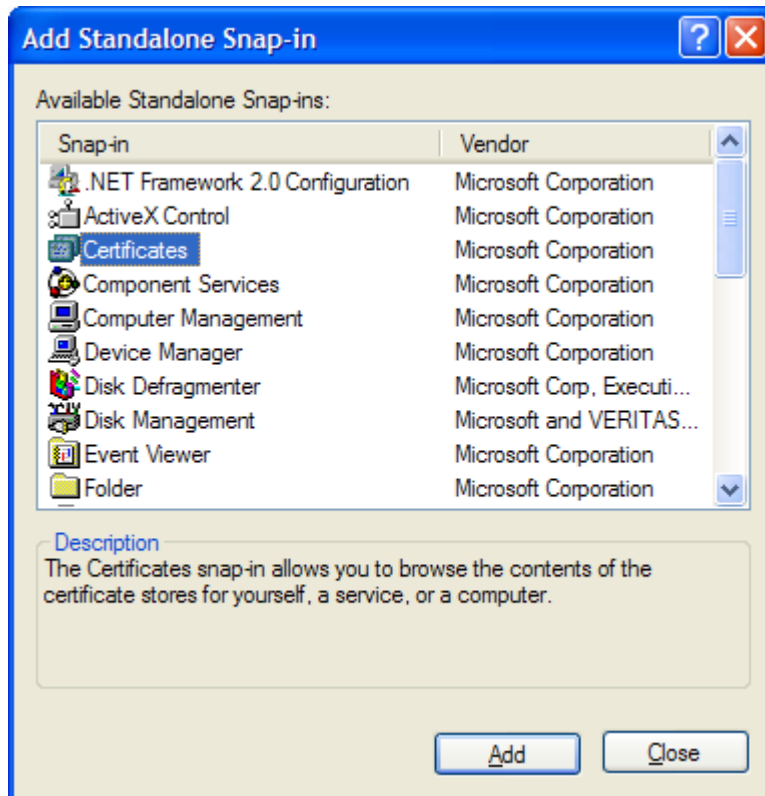
Select **"File -> Add/Remove Snap-in..."**



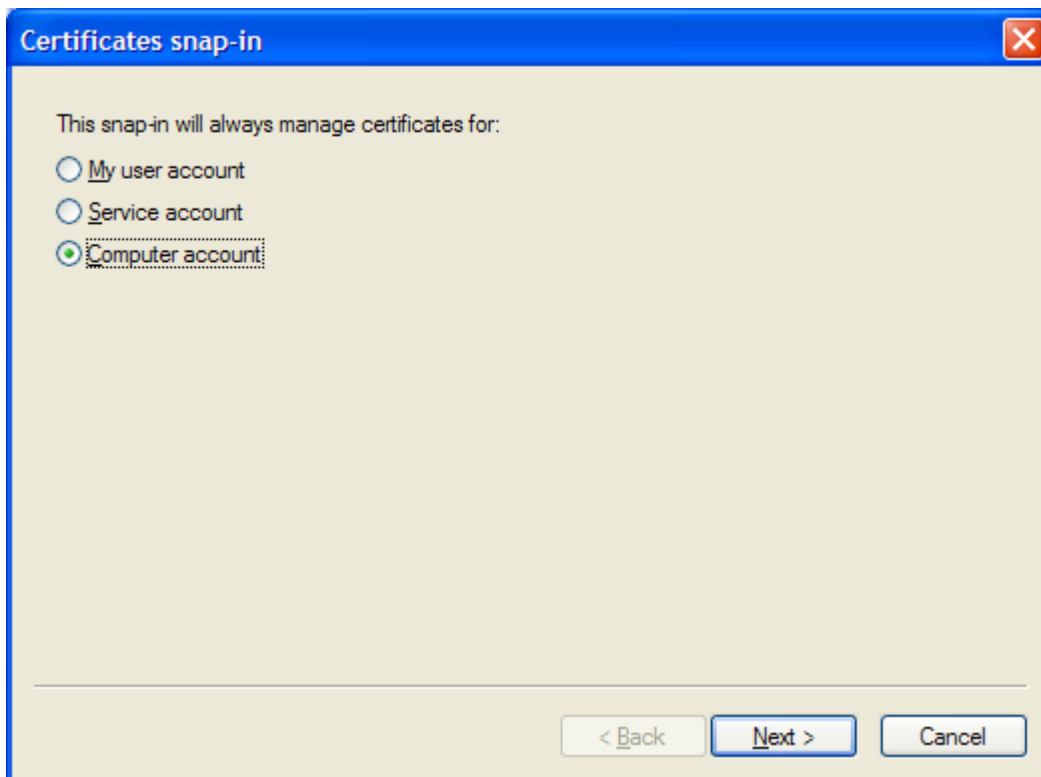
The following screen appears. Click the “**Add**” button.



The following screen appears. Select “**Certificates**” and click the “**Add**” button.



The following screen appears. Ensure that this screen appears. If it does not appear, you are not logged onto the workstation as an administrator. Select the “**Computer account**” option and click the “**Next**” button



The following screen appears. Ensure the “**Local computer**” option is selected, then click “**Finish**”

Select Computer

Select the computer you want this snap-in to manage.

This snap-in will always manage:

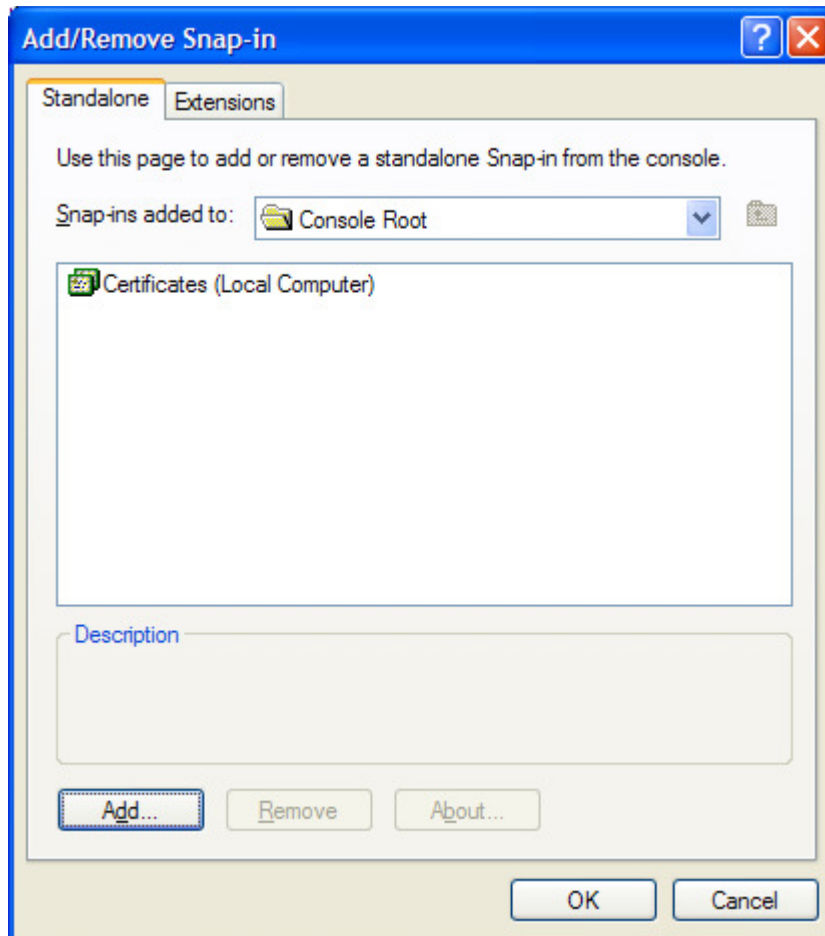
Local computer: (the computer this console is running on)

Another computer:  Browse...

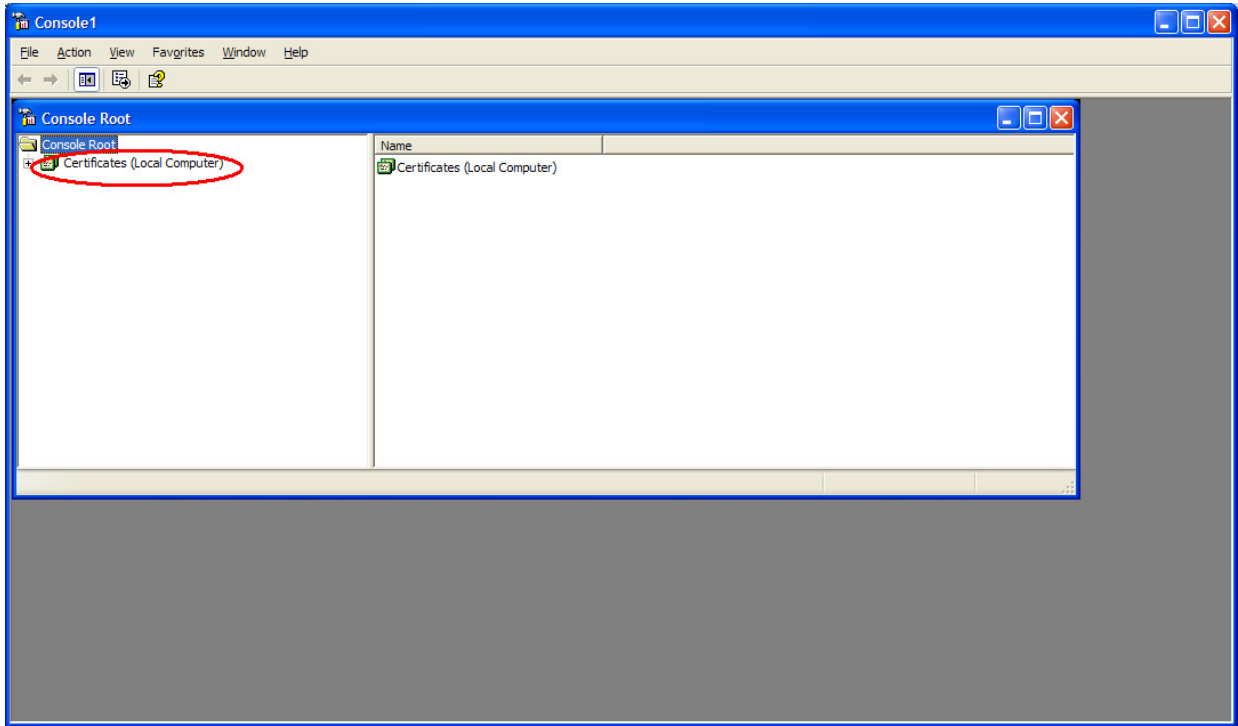
Allow the selected computer to be changed when launching from the command line. This only applies if you save the console.

< Back Finish Cancel

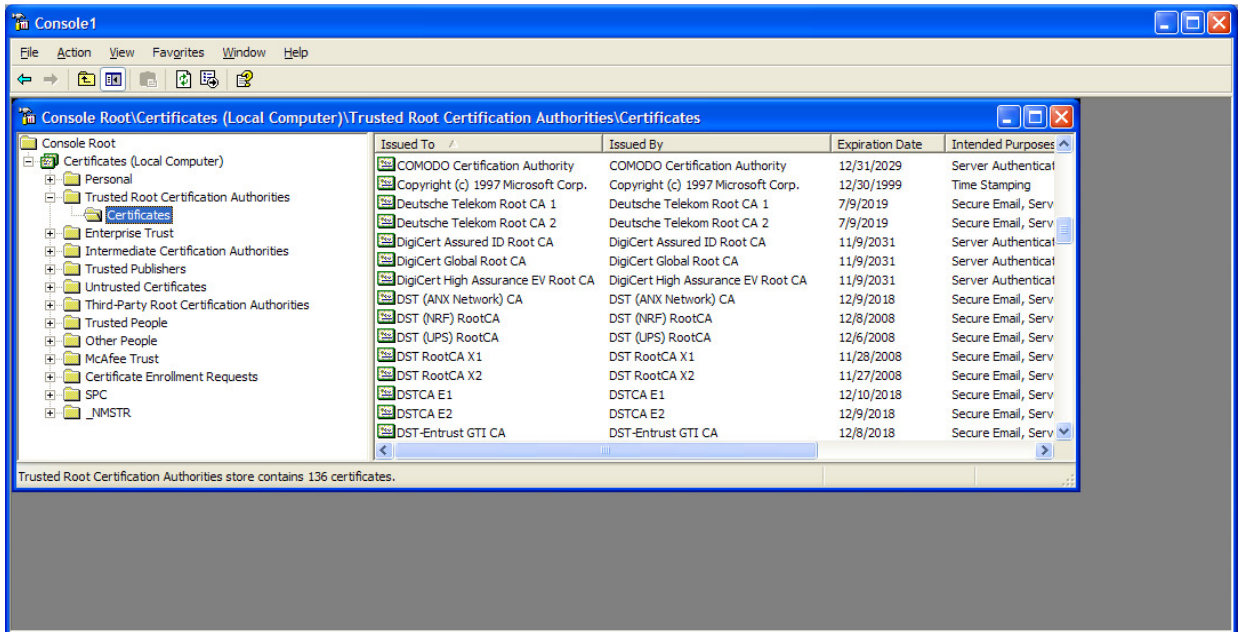
Click “Close” on the “Add Standalone Snap-In” screen. The “Add/Remove Snap-In” screen appears as shown below with “Certificates (Local Computer)” item listed in the list of snap-ins. Click “OK”.



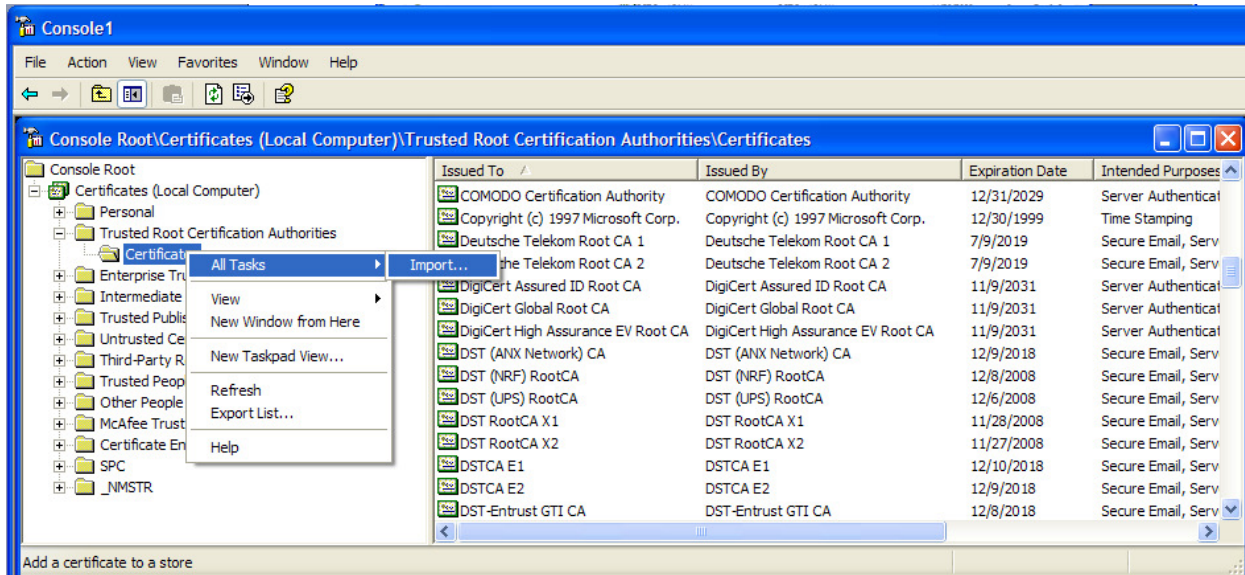
The following screen appears. Ensure that **“Certificates (Local Computer)”** appears in the left pane. If instead you see **“Certificates – Current User”**, you are not logged onto the workstation as an administrator or you did not follow the previous three steps correctly.



Navigate to **“Console Root -> Certificates (Local Computer)-> Trusted Root Certification Authorities -> Certificates”**

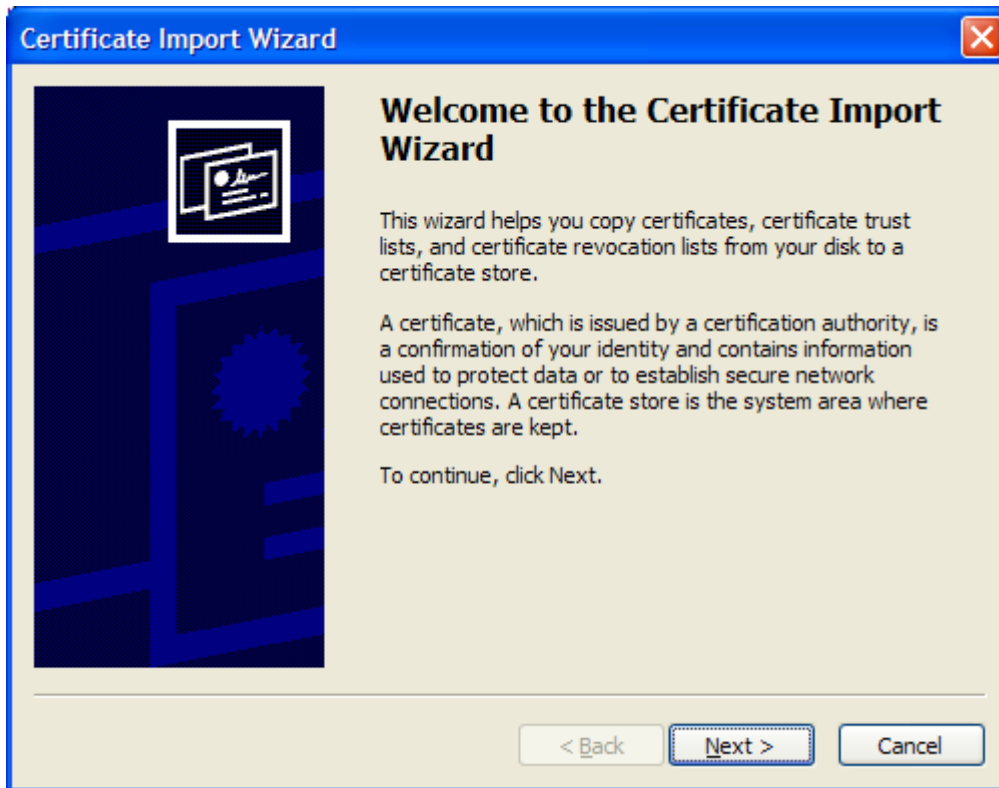


Right mouse click on “Console Root -> Certificates (Local Computer)-> Trusted Root Certification Authorities -> Certificates” and select “All Tasks -> Import...”

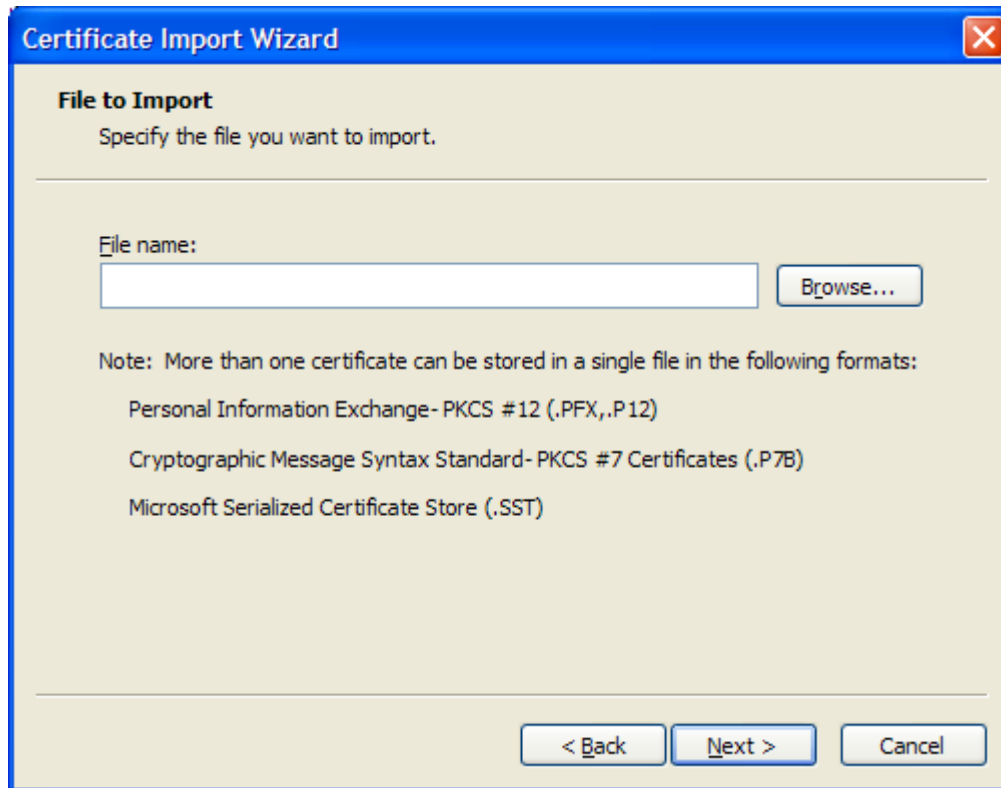




The Certificate Import Wizard displays. Click the “**Next**” button



The following screen appears. Click the “**Browse...**” button



The image shows a Windows-style dialog box titled "Certificate Import Wizard". The title bar is blue with a red close button on the right. The main area has a light beige background. At the top, it says "File to Import" and "Specify the file you want to import." Below this is a horizontal line. Underneath the line, there is a label "File name:" followed by an empty text input field and a "Browse..." button. Below the input field, there is a "Note:" section with the text: "More than one certificate can be stored in a single file in the following formats:" followed by three bullet points: "Personal Information Exchange- PKCS #12 (.PFX, .P12)", "Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B)", and "Microsoft Serialized Certificate Store (.SST)". At the bottom of the dialog, there are three buttons: "< Back", "Next >", and "Cancel".

**File to Import**  
Specify the file you want to import.

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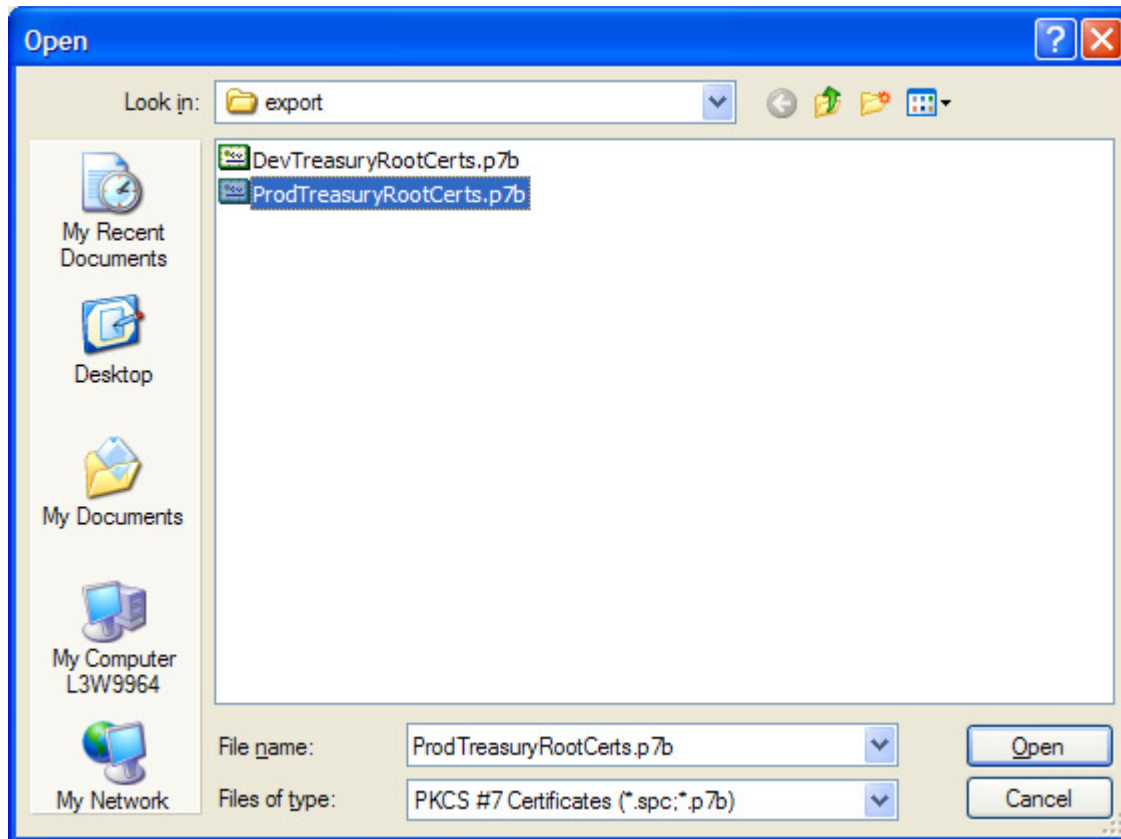
File name:

Note: More than one certificate can be stored in a single file in the following formats:

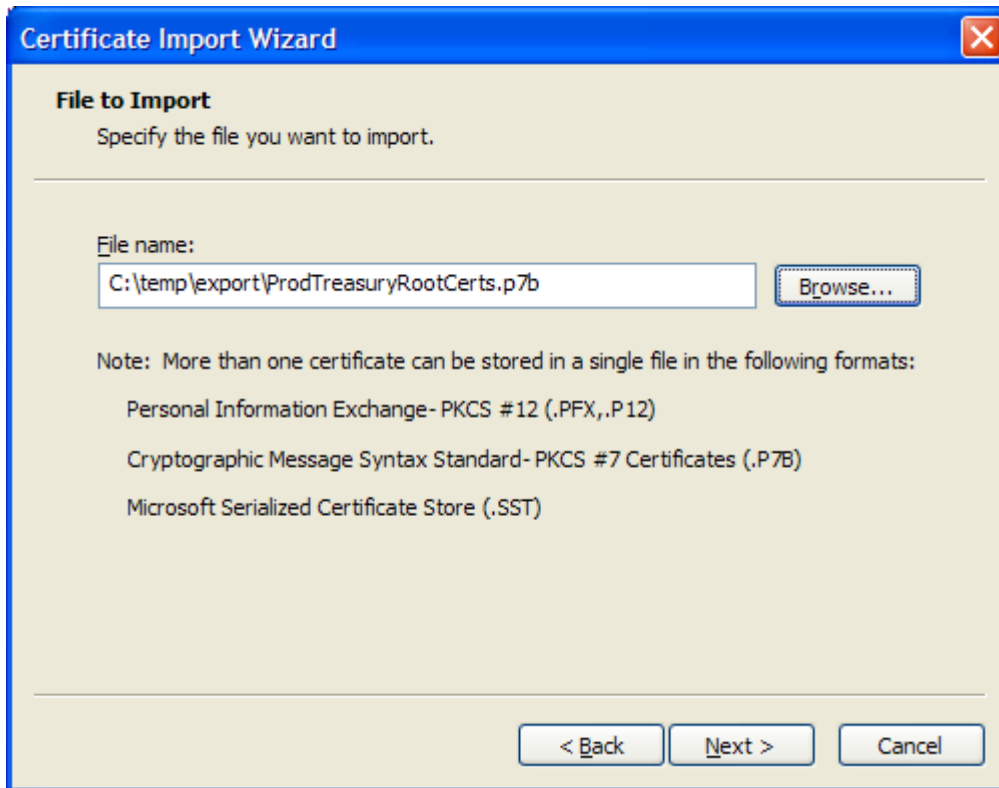
- Personal Information Exchange- PKCS #12 (.PFX, .P12)
- Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B)
- Microsoft Serialized Certificate Store (.SST)

< Back   Next >   Cancel

Set the file type filter to “**PKCS #7 Certificates (\*.spc; \*.p7b)**” and navigate to the file containing the production root certificates exported previously in task 2. Select the file and click “**Open**”



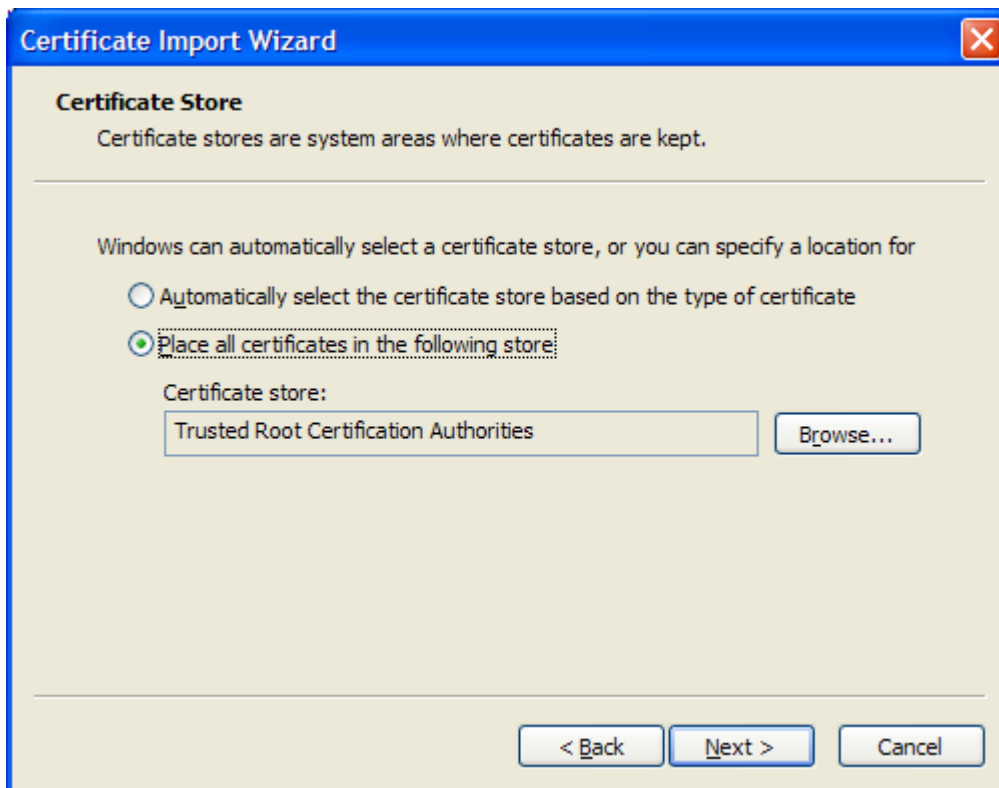
The following screen appears. Verify the name of the file to import and click “Next”



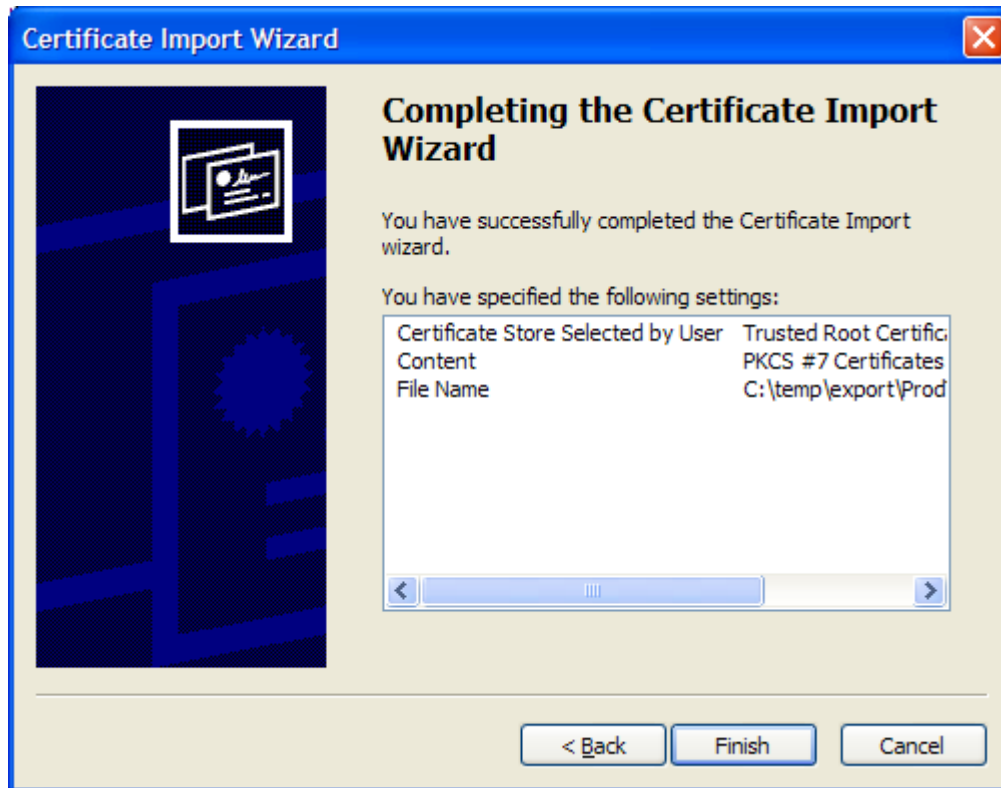
The image shows a Windows dialog box titled "Certificate Import Wizard". The window has a blue title bar with a close button (X) in the top right corner. The main area is light beige and contains the following elements:

- File to Import**: A section header.
- Specify the file you want to import.
- A horizontal line.
- File name:** A label above a text input field.
- Text input field containing: C:\temp\export\ProdTreasuryRootCerts.p7b
- Browse...**: A button to the right of the text input field.
- Note:** More than one certificate can be stored in a single file in the following formats:
  - Personal Information Exchange- PKCS #12 (.PFX, .P12)
  - Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B)
  - Microsoft Serialized Certificate Store (.SST)
- A horizontal line.
- Navigation buttons at the bottom: **< Back**, **Next >**, and **Cancel**.

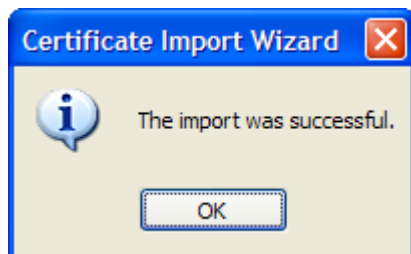
The following screen appears. Verify that the option “**Place all certificates in the following store**” is selected and the Certificate store displayed is “**Trusted Root Certification Authorities**”. Click the “**Next**” button



The following screen appears. Click the “**Finish**” button



You will see the following message if the import was successful. Click “**OK**”.

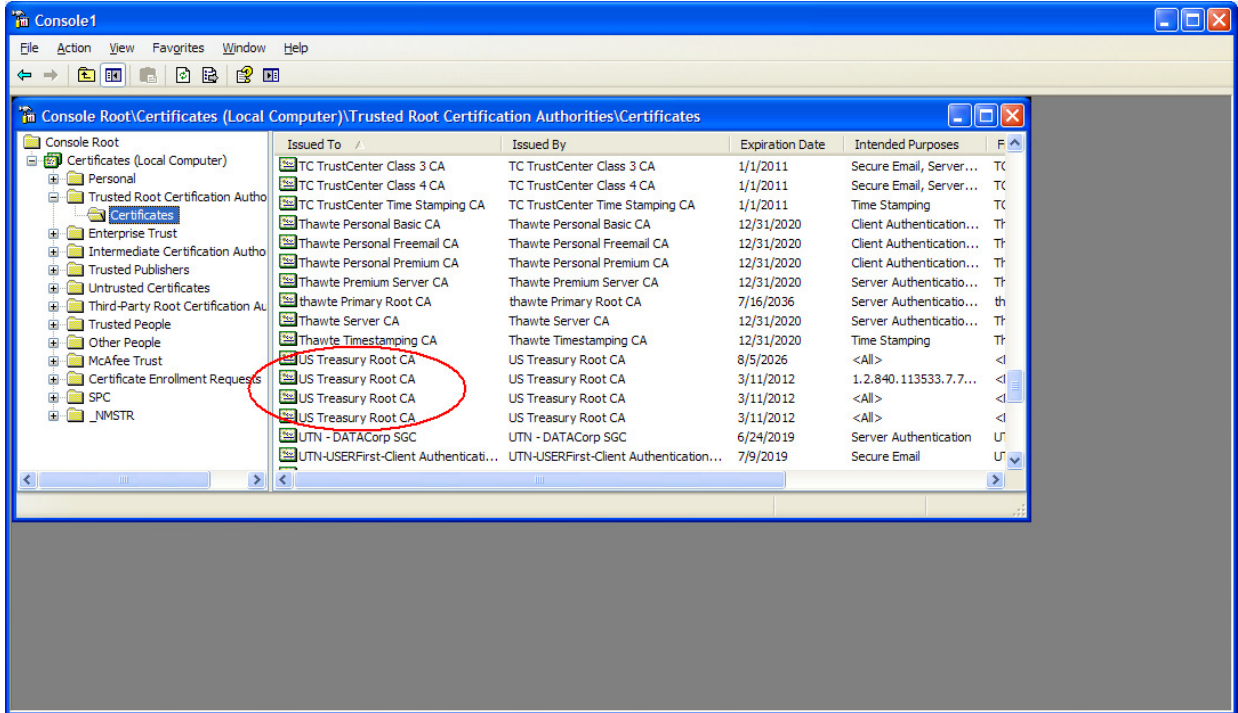


### **Import the Development Treasury Root Certificate**

Repeat the import process (pages 24-30) for the development root certificate container file exported in task 2 (DevTreasuryRootCerts.p7b). Ensure that you specify the file containing the development certificate and that you import into the “Trusted Root Certification Authorities” certificate store.

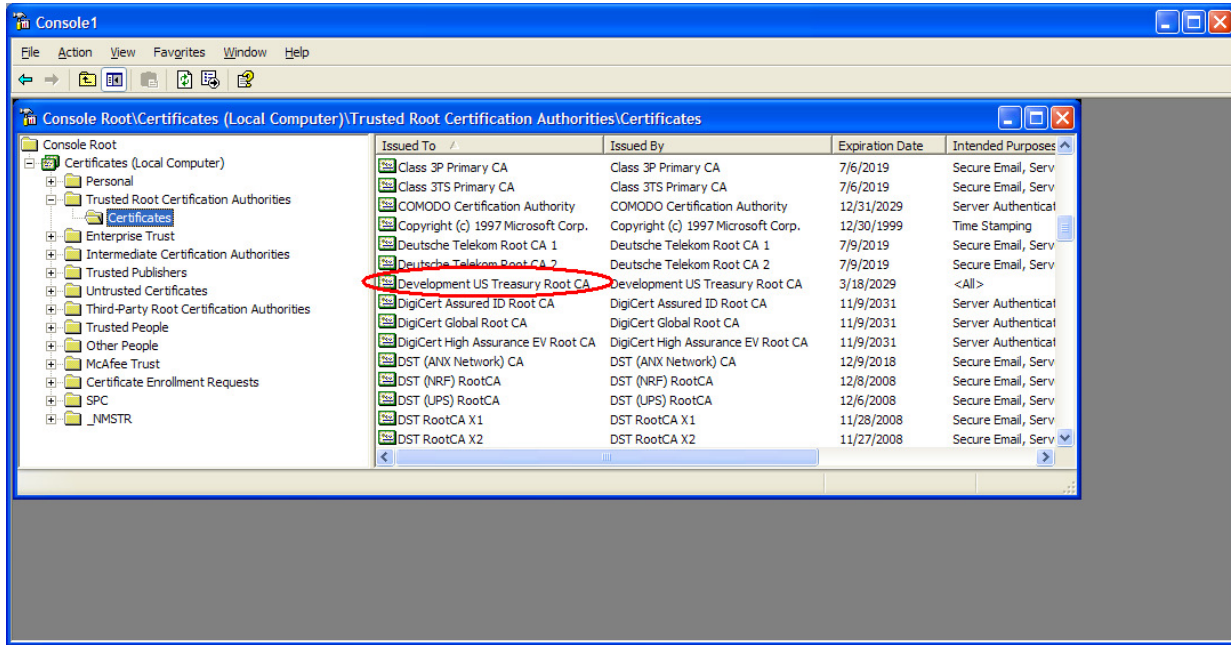
## Verify installation of Production Treasury Root Certificates

Verify that the “US Treasury Root CA” certificates were imported successfully into the “Trusted Root Certification Authorities” store of the Local Computer. See the certificates encircled in red below to verify.

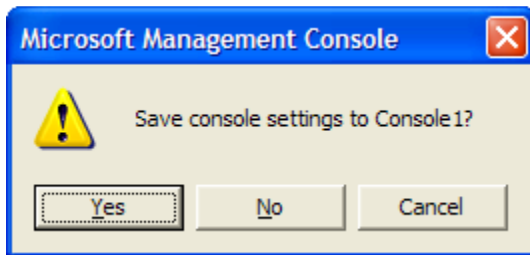


## Verify installation of Development Treasury Root Certificate

Verify that the “**Development US Treasury Root CA**” certificate was imported successfully into the “**Trusted Root Certification Authorities**” store of the **Local Computer**. See the certificate encircled in red to verify.



Close the “**Console1**” application; you will see the following message:



Click “**No**” to close the Microsoft Management Console and complete the Treasury Root Certificate Installation process.

**Service: Our Last Name but our First Priority**