Mapping CtrlX WebDAV folder using MS Windows built in tools (e.g. map network drive or connect to web resource)

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You can also connect to WebDAV as Web location in your MS Windows computer

Problem description

Mapping of a network drive fails when a user tries to map a CtrIX WebDAV folders on MS Windows computer. The mapping fails with the following error after entering the credentials.



Cause

The error is displayed when e.g. CtrlX unit is using a self-signed certificate.

Resolution

Perform the following steps on the destination to resolve the issue:

1. Open the WebDAV link to your CtrlX unit (example IP 192.168.99.203) e.g. <u>https://192.168.99.203/solutions/</u>

(the best would be Chrome browser).

- 2. Open Developer Tools on your browser using the F12 key.
- 3. Click the Security tab on the Developer Tools menu and click View certificate.



4. On the Certificate page, click Details tab and click Copy To File.

	Certificate	×			
General	Details Certification Path	_			
Show:	Show: Critical Extensions Only				
Field	Value				
		1			
	Edit Properties				
	ОК				

5. Click **Next** on Certificate Export Wizard window.

📀 🍠 Certificate Export Wizard	×
Welcome to the Certificate Export Wizard	
This wizard helps you copy certificates, certificate trust lists and certificate revocation lists from a certificate store to your disk.	
A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.	
To continue, click Next.	
<u>N</u> ext Car	ncel

6. Select Base-64 encoded X.509 (.CER) and click Next.

xpo	rt File Format Certificates can be exported in a variety of file formats.
	Select the format you want to use:
	DER encoded binary X.509 (.CER)
	Base-64 encoded X.509 (.CER)
	Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)
	Include all certificates in the certification path if possible
	<u>Personal Information Exchange - PKCS #12 (.PFX)</u>
	Indude all certificates in the certification path if possible
	Delete the private key if the export is successful
	Export <u>all</u> extended properties
	 Microsoft Serialized Certificate Store (.SST)

7. Specify the location to save the **Certificate.cer** file an and click **Next**.

📀 🍠 Certificate Export Wizard	×
File to Export Specify the name of the file you want to export	
Eile name: c:\Users\ <username>\Desktop\Certificate.cer</username>	Browse
	Next Jrr. Cancel

- 8. Click Finish.
- 9. Double-click on the **Certificate.crt** file to open the certificate and click **Install Certificate**.

Certificate	×			
General Details Certification Path				
Certificate Information				
This CA Root certificate is not trusted. To enable trust, install this certificate in the Trusted Root Certification Authorities store				
Issued to: 192.168.50.60				
Issued by: 192.168.50.60				
Valid from 16-10-2016 to 16-10-2026				
Issuer Statement				
ОК				

10. Select Local Machine and click Next.

📀 😼 Certificate Import Wizard	×		
Welcome to the Certificate Import Wizard			
This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.			
A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.			
Store Location			
To continue, click Next.			
<u>⊛N</u> ext Car	icel		

11. Select Place all certificates in the following store and click Browse.

	×
📀 🍃 Certificate Import Wizard	
Certificate Store	
Certificate stores are system areas where certificates are	e kept.
Windows can automatically select a certificate store, or ye the certificate.	ou can specify a location for
Automatically select the certificate store based on	the type of certificate
elace all certificates in the following store	
Select Certificate Store	Browse
Select the certificate store you want to use.	
Personal Trusted Root Certification Authorities Enterprise Trust Trusted Publishers Trusted Publishers Chan physical states	
Show physical stores	
OK Cancel	<u>N</u> ext Cancel

- 12. Click Next and Finish.
- 13. You may delete the Certificate.crt file saved on your system.

Some examples of connections (sorry for Polish GUI language)

Mapping WebDAV folder of CtrlX (IP:192.168.99.203 userid: boschrexroth pass: boschrexroth) as a disk G: using net use command

- 1. Start a command line of MS Windows
- 2. Enter command e.g. as below

C:\>net use g: \\192.168.99.203@SSL@443\solutions/webdav/appdata

3. You will be asked for a userid as shown below:

Wprowadź nazwę użytkownika dla "192.168.99.203": boschrexroth

4. You will be asked for a password as shown below:

Wpisz hasło dla 192.168.99.203: Polecenie zostało wykonane pomyślnie.

5. Now you can navigate to the mapped drive letter and see its contents e.g.

```
C:\>g:
G:\>dir
Volume in drive G has no label.
Volume Serial Number is 0000-0000
Directory of G:\
08.05.2023 12:45
                   <DIR>
08.05.2023 12:45
                   <DIR>
                                  . .
18.04.2023 10:26
                 <DIR>
                                  opcuaserver
24.03.2023 12:04
                   <DIR>
                                  remote-logging
29.06.2023 14:58
                 <DIR>
                                  script
10.05.2023 10:35 <DIR>
                                  plc
05.07.2023 11:56
                 <DIR>
                                  node-RED
24.03.2023 12:04
                              122 configuration.json
              1 File(s)
                                  122 bytes
              7 Dir(s) 44 534 218 752 bytes free
```

Mapping WebDAV as disk Y: using the GUI tool Map network drive (same CtrlX as before)

- 1. Click on **My Computer** using the right mouse button.
- 2. Select Map a network drive...



- 3. Enter as shown below:
 - (1) Select Disk e.g. Y:
 - (2) Folder https://192.168.99.203/solutions/webdav/appdata
 - (3) Connect using other credentials
 - and click on Finish

			×
÷	🍕 Mapov		
	Jaki fold Określ liter	ler sieciowy chcesz zamapować? e dvsku dla połaczenia i folder. z którvm chcesz sie połaczyć:	
	Dysk: Folder:	Y: 2 https://192.168.99.203/solutions/webdav/appdata Przeglądaj Przykład: \\serwer\udział Połącz ponownie przy logowaniu ☑ Połącz przy użyciu innych poświadczeń 3 3 Połącz z witryna sięci Web, która umożliwia przechowywanie dokumentów i obrazów.	
		↓ 3	
		Zakończ Anuluj	

4. You will get a popup message where you have to provide userid and password to your CtrIX

		\times
Mapowanie dysku sieciowego	×	
Trwa próba podłączenia do https://192.168.99.203/solutions/webdav/appda	ata ączyć:	
Zabezpieczenia Windows Connect to 192.168.99.20	Х 3	
Connecting to 192.168.99.203		
Nazwa użytkownika	atáwi obrazów	
Hasło	ttow robrazow.	
Zapamiętaj moje poświadczenia	3	
ок	Anuluj nicz Anuluj	
	tóra umożliwia przec	how

5. After a while you will get a folder attached to your Y: disk as follows

Ten komputer → (Y:) appdata (\\192.168.99.203@SSL\DavWWWRoot\solutions\webdav)				
Nazwa	Data modyfikacji	Тур	Rozmiar	
node-RED	05.07.2023 11:56	Folder plików		
opcuaserver	18.04.2023 10:26	Folder plików		
🔜 plc	10.05.2023 10:35	Folder plików		
🔜 remote-logging	24.03.2023 11:04	Folder plików		
🔜 script	29.06.2023 14:58	Folder plików		
/// configuration.json	24.03.2023 11:04	Plik JSON	1 KB	

You can also connect to WebDAV as Web location in your MS Windows computer

This part we will leave for a reader to find out how ${}_{\bigotimes}$