

## Certificate Creation for accessing SDR API

Certificate can be created by using any one of the below two options.

- PowerShell
- Open SSL

## Option 1: Certificate generation with Open SSL

- 1. Install the Open SSL.
- 2. Run the OpenSSL Command Prompt and set the directory to the folder where certificate to be stored.

```
EX Win64 OpenSSL Command Prompt

Win64 OpenSSL Command Prompt

OpenSSL 3.0.3 3 May 2022 (Library: OpenSSL 3.0.3 3 May 2022)

built on: Ned May 4 02:41:48 2022 UTC

platform: VC-VIN64A

options: bn(64,64)

compiler: c1 /27 /fdossl_static.pdb /6s0 /6f /6y /MD /W3 /wd4090 /nologo /02 -DL_ENDIAN -DOPENSSL_PIC -D_USING_V110_SDK71_ -D_WINSOCK_DEPRECATED_NO_WARNINGS -D_WIN32_WINNT=
0x0502

OPENSSLDIR: "C:\Program Files\Common Files\SSL"

ENGINESDIR: "C:\Program Files\OpenSSL\lib\comsines-3"

MODULESDIR: "C:\Program Files\OpenSSL\lib\comsines-3"

MODULESDIR: "C:\Program Files\OpenSSL\lib\comsines-3"

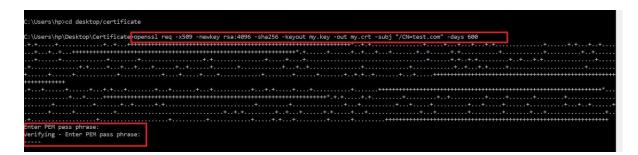
CPUINFO: OPENSSL_ja2cap=0xfedaf383ffcbffff:0x1c2fbb

E:\Users\hp\Cesktop\Certificate

C:\Users\hp\Cesktop\Certificate>
```

3. Run the below command **o** provide **Enter PEM pass phrase** and save the pass phrase to provide it on the command to generate .pfx certificate.

openssl req -x509 -newkey rsa:4096 -sha256 -keyout my.key -out my.crt -subj "/CN=test.com" -days 600



4. Run the below command to generate the .pfx certificate.

openssl pkcs12 -export -name "test.com" -out my.pfx -inkey my.key -in my.crt

Provide the below details:

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- Enter pass phrase for my.key: Provide the pass phrase passed on step 3
- Enter Export Password: Provide the password for .pfx certificate and save it for later use.

5. Exported .pfx certificate will be stored in the directory where OpenSSL was installed.

**Note:** Share the .pfx certificate and the export password to SDR Support Team to get access to SDR API's on Demo Environment.

## Option 2: Certificate generation with PowerShell

1. Open PowerShell and run the below command to generate the self-signed certificate

New-SelfSignedCertificate -certstorelocation cert:\CurrentUser\My\ -dnsname example.com

```
Windows PowerShell

PS C:\> New-SelfSignedCertificate -certstorelocation cert:\CurrentUser\My\ -dnsname example.com

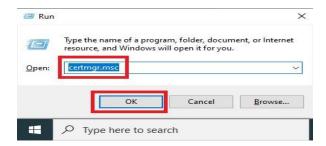
PSParentPath: Microsoft.PowerShell.Security\Certificate::CurrentUser\My

Thumbprint Subject
------
6627DBCEEAB7A9AF558009FC04FF5CA1FFFBCE1B CN=example.com

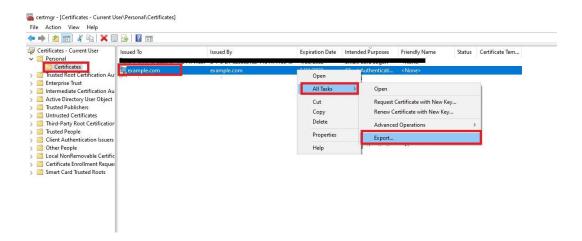
PS C:\>
```

2. To Export the certificate in .pfx format, go to run → type certmmgr.msc and click ok





3. In certificate manager go to personal → certificates → select the generated certificate and right click select All Tasks → Select Export.



4. In Certificate Export Wizard click Next to continue.

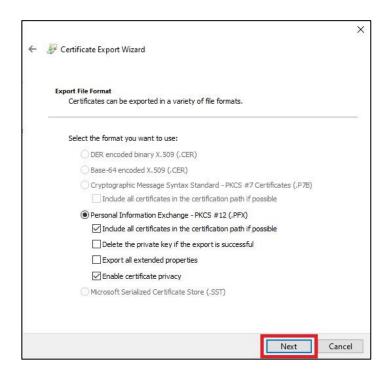


5. Select export the private key option and click next.



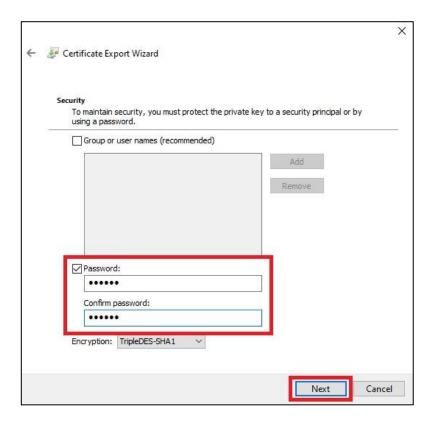


6. Leave the defaults and click next.

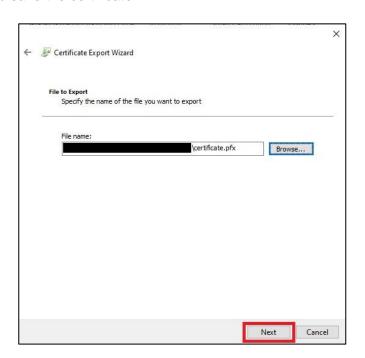


7. Provide the password for certificate and click next.





8. Select the path to save the certificate.



9. Click on Finish.





10. Exported .pfx certificate will be stored on the folder path provided on step 8.

**Note:** Share the .pfx certificate and the password to SDR Support team to get access to SDR APIs .