16.3. Example procedures for registration of SSL/TLS certificates

To use SSL/TLS communications (HTTPS), you must configure settings for the use of either a self-signed certificate or CA-signed certificate beforehand. The following shows the procedure for each.

16.3.1. Using a self-signed certificate

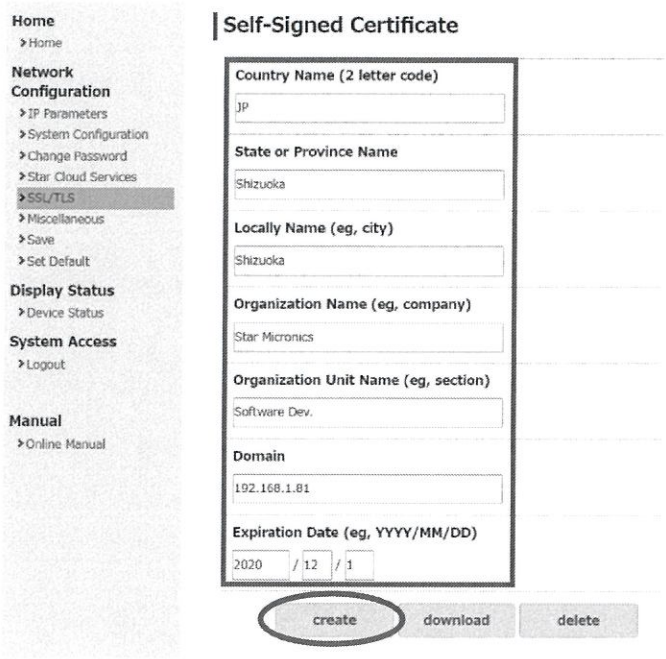
1. Create a certificate for the printer.
   Access the printer's IP address from the browser (in this procedure: http://192.168.1.81), and then log in with root privileges.

   Enter the following user name and password, and then click [OK].
   User name: "root", password: "public" (factory-set)

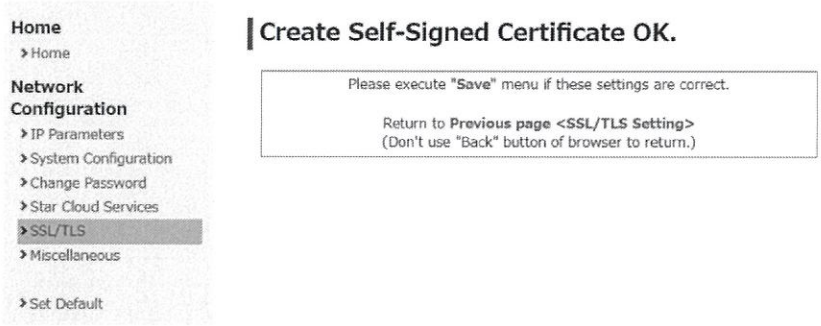
   Click [SSL/TLS].

   Click [Create Self-Signed Certificate].

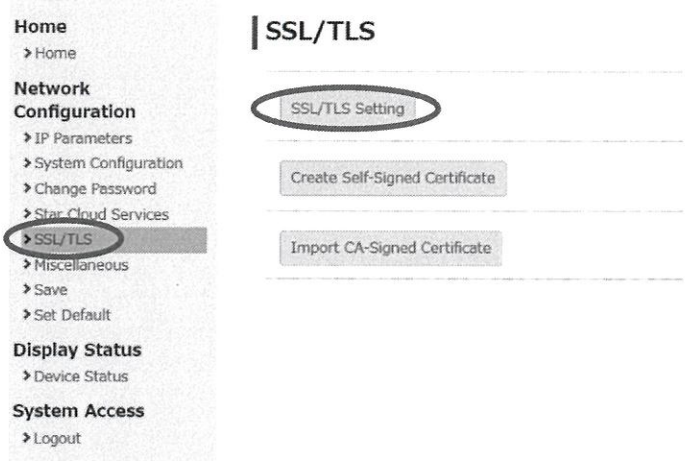
   After entering each item in the "Self-Signed Certificate" fields and clicking [Create], a certificate is created in the printer. For "Domain", enter the printer IP address (static value).* The screen below shows an example of input.



The following screen appears when you successfully create a certificate.

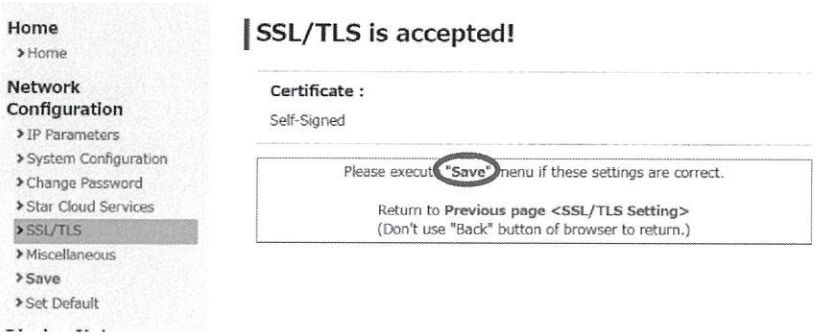


2. Enable the printer self-signed certificate setting.
   Click [SSL/TLS]. Click [SSL/TLS Setting].



For "Certificate", select "Self-Signed" and click [Submit].

The following information is displayed. Check that "Certificate" is "Self-Signed".



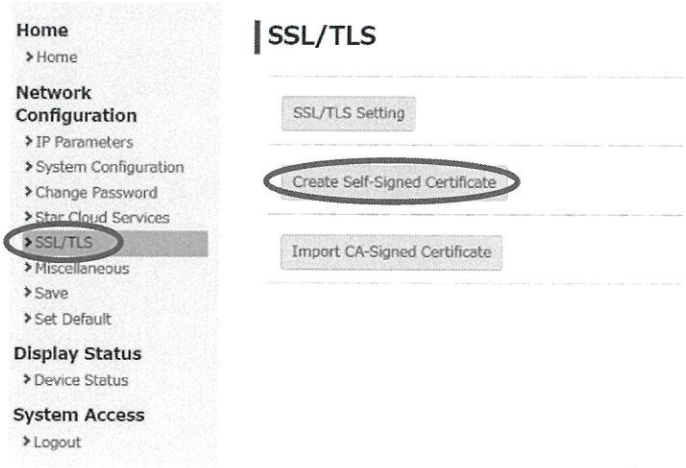
Click [Save]. On the save screen, select "Save → Configuration printing → Restart device" and then click [Execute]. The printer prints the settings information. Check that the settings are those shown below.
- Self-Signed Certificate: Exist
- Certificate: Self-Signed

Creation of the printer self-signed certificates is completed.

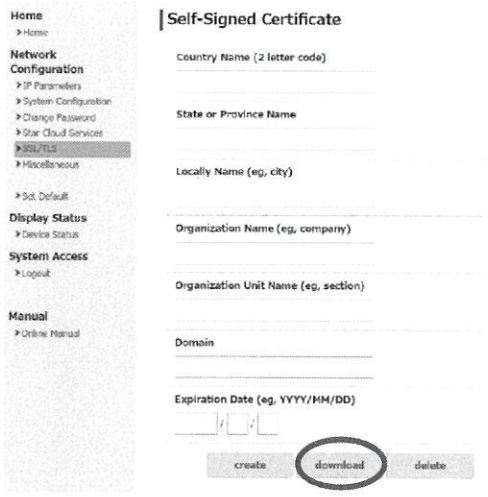
3. Importing a certificate to the web browser
   Import the certificate that was created in NIC to the web browser of the client device.

■ Windows device (example shows Windows 7)

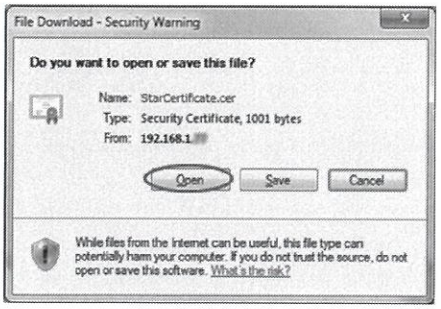
Click [SSL/TLS]. Click [Create Self-Signed Certificate].



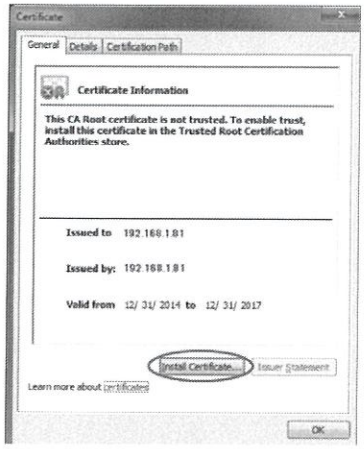
Click [Download] and save a certificate file (name is not prescribed) to any place in Windows.
(In this example procedure, the file is saved with the name "StarCertificate.cer".



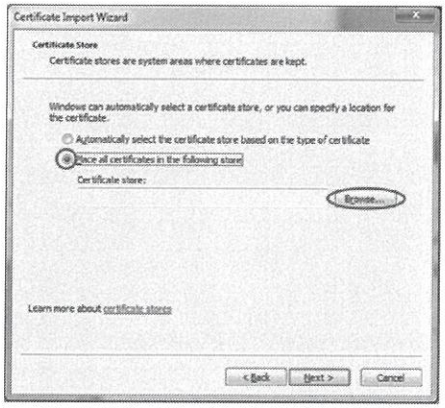
On the client device, double-click the saved certificate file and click [Open].



Click [Install Certificate...].

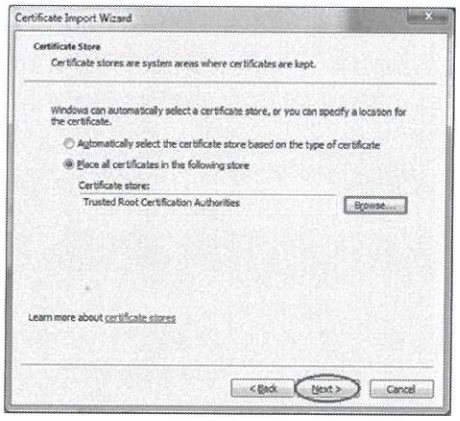


Select "Place all certificates in the following store" and then click [Browse...].



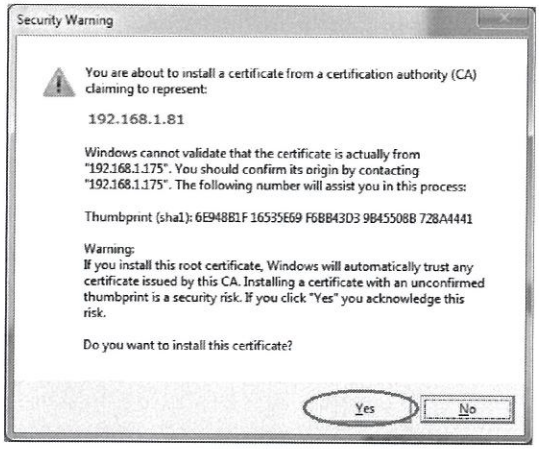
Select "Trusted Root Certification Authorities" and then click [OK].

Click [Next].

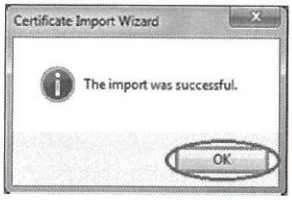


Click [Finish].

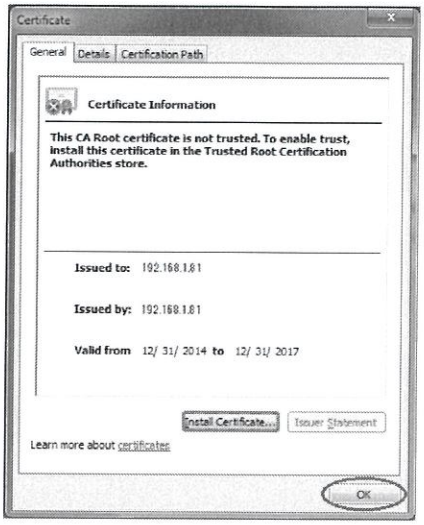
Click [Yes] when the following message appears.



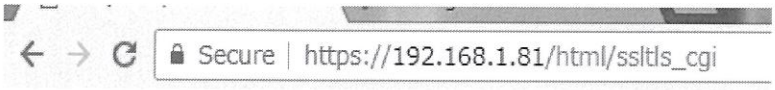
Click [OK].



Click [OK] to close. The procedure is completed.



Turn the printer power ON again. It is now possible to access the printer web screen using an address starting with "https://".



However, depending on the client device environment, you may need to add the address as a "Trusted sites". (For example, combination of Windows 10 + Microsoft Edge)

→ See "16.3.3. Additional information".

[Reference information]

When importing a certificate file to the web browser with Windows 8/8.1/10, you must activate certificate manager, "certmgr.msc" in Windows administrative tools, and then perform the following procedure.

- Select "Trusted Root Certification Authorities" and then [Certificate].
- Select [All tasks] and then [Import] from the "Operation Menu".
- Import a self-signed certificate using the import certificate wizard.
- Make sure you import the certificate by referring to "Trusted Root Certification Authorities" and then [Certificate].