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Creating the certificate signing request


To obtain a signed certificate issued by a Certificate Authority (CA), e.g. for a web service, a certificate signing request (CSR) is required. ctrlX OS provides a corresponding mechanism.

Open the window of the respective service you require a signed certificate file for under ctrlX OS side navigation Settings → Certificates & Keys.

In the “Keys” tab, by using a key of the “type” “Private”, click on the icon  “Generate certificate signing request” in the “Actions” column of the key and the dialog to enter the required information opens.




A certification signing request cannot be created for keys of the type "Private" created with the algorithm ED25519.

Once all required information has been entered into the “Generate certificate signing request” dialog, the button  is enabled. Click on the interface and the certification request is generated. A dialog with information and possible actions for the created CSR opens.

The CRS can be downloaded to the engineering PC or to the clipboard via the icons in the “Actions” column in “.pem” and “.der” format. During the download to the clipboard, the “.pem” format is used.

Downloading and copying to the clipboard is also possible at a later point in the “Show certificate signing requests” dialog of the key. The CSR can also be deleted by ctrlX OS device via this dialog.


Overview on the created certification requests

The CSRs created using a key of “type” “Private” are displayed in a dialog in the “Actions” column of the key when clicking on the icon  “Show certificate signing requests”. Use this dialog to download the certification request to the engineering PC, to copy it to the clipboard or to delete the request on ctrlX OS device.

Further procedure

Transfer the certificate signature request downloaded by ctrlX OS device as “.pem” or “.der” file to the selected certification authority. The authority will then provide you with the signed certification file for the service.

Go to ctrlX OS side navigation Settings → Certificates & Keys to download the certificate to the ctrlX OS device.

In the command bar, click on the “Certificates” tab in the window of the respective service on the  “Upload certificate file” icon. In the opened Explorer window of the engineering PC, navigate to the storage location of the certificate file and select the file for upload.

Further information

- ↘ “Introduction”
- ↘ “Window – “Certificates & Keys””
- ↘ “ Editor – Certificates & Keys ”