# Requesting and Installing a Certificate

Requesting an installing a certificate includes the following steps

- 1. Creating a Certificate Signing Request (CSR) on the Bridge you want to use the certificate for.
- 2. Ordering an official certificate from a certificate authority like e.g. VeriSign.
- 3. Installing the certificate on the Bridge.

## Creating a Certificate Signing Request (CSR)

For the enrollment of an official certificate, you need to provide a certificate signing request (CSR). On the **Certificate** tab, all related actions can be executed, if the user has administration rights.

		eer-acme.com  ificate Configurations Configuration Template	a certificate signing request click <b>Create CS</b>
Serial Number 3caeb3ce2ec0.7b49 Algorithm SHA256WITHRSA MD5 Fingerprint 09:2d5186.43.7d3a18:5313c8.a509.8b98:e9 SHA1 Fingerprint ccb8.82:11:bdb6.9d.64.83.dd.7d.64.85.fc.a4.2fff31:8e.0d Subject DN 0=Snake Oil,CN=bridge scheer-acme.com Valid Not Before Mon Sep 23 17:10:40 CEST 2019 Valid Not After Thu Jul 14 17:10:40 CEST 2022 Issuer DN 0=Snake Oil,CN=bridge.scheer-acme.com  Create CSR Install Certificate Export Import Create New Self-Signed Certificate  Create CSR Common Name (CN) * bridge.scheer-acme.com  Organizational Unit (OU)  Organization (O) *  Locality (L)  State or Province (ST)  Country (C) *	Proxy Service	Certificate	
Algorithm SHA256WITHBSA  MD5 Fingerprint 09:2d:61:86:43:7d:3a:f8:53:13:c8:a5:09:8b:98:e9  SHA1 Fingerprint cc:b8:82:11:bd:b6:8d:64:83:dd:7d:64:85:fc:a42:fff:31:8e:0d  Subject DN 0=Snake Oil,CN=bridge.scheer-acme.com  Valid Not Before Mon Sep:23:17:10:40:CEST:2019  Valid Not After Thu Jul 14:17:10:40:CEST:2022  Issuer DN 0=Snake Oil,CN=bridge.scheer-acme.com  Create CSR Install Certificate Export Import Create New Self-Signed Certificate  Create CSR  Common Name (CN) * bridge.scheer-acme.com  Organizational Unit (OU)  Organization (O) *  Locality (L)  State or Province (ST)  Country (C) *	Version	3	
MDS Fingerprint  09-2d-61-86-43-7d-3a-f8-53-13-c8-a5-09-8b-98-e9  SHA1 Fingerprint  cc-b8-82-11-bd-b6-8d-64-83-dd-7d-64-85-fc-a4-2fff:31-8e-0d  Subject DN  O=Snake Oil_CN-bridge_scheer-acme.com  Valid Not Before  Mon Sep 23 177-10-40 CEST 2019  Valid Not After  Thu Jul 14 17:10-40 CEST 2022  Issuer DN  O=Snake Oil_CN-bridge_scheer-acme.com  Create CSR  Install Certificate  Export  Import  Create New Self-Signed Certificate  The form to ent all required field is displayed.  Common Name (CN) *  bridge.scheer-acme.com  Organizational Unit (OU)  Organizational Unit (OU)  State or Province (ST)  Country (C) *	Serial Number	3c:ae:b3:ce:2e:c0:7b:49	
SHA1 Fingerprint ccb8.82-11-bd-b6-8d-64-83-dd-7d-64-85-fc-a4-2f-ff-31-8e-0d  Subject DN	Algorithm	SHA256WITHRSA	
Subject DN  O=Snake Oil,CN=bridge.scheer-acme.com  Valid Not Before  Mon Sep 23 17:10:40 CEST 2019  Valid Not After  Thu Jul 14 17:10:40 CEST 2022  Issuer DN  O=Snake Oil,CN=bridge.scheer-acme.com  Create CSR  Install Certificate  Export  Import  Create New Self-Signed Certificate  all required field is displayed.  Common Name (CN) *  bridge.scheer-acme.com  Organizational Unit (OU)  Organization (O) *  Locality (L)  State or Province (ST)  Country (C) *	MD5 Fingerprint	09:2d:61:86:43:7d:3a:f8:53:13:c8:a5:09:8b:98:e9	
Valid Not After Mon Sep 23 17:10:40 CEST 2019  Valid Not After Thu Jul 14 17:10:40 CEST 2022  Issuer DN O=Snake Oil,CN=bridge.scheer-acme.com  Create CSR Install Certificate Export Import Create New Self-Signed Certificate  Create CSR  Common Name (CN) * bridge.scheer-acme.com  Organizational Unit (OU)  Organization (O) *  Locality (L)  State or Province (ST)  Country (C) *	SHA1 Fingerprint	cc:b8:82:11:bd:b6:8d:64:83:dd:7d:64:85:fc:a4:2f:ff:31:8e:0d	
Valid Not After  Thu Jul 14 17:10:40 CEST 2022  Issuer DN  O=Snake Oll,CN=bridge.scheer-acme.com  Create CSR  Install Certificate  Export  Import  Create New Self-Signed Certificate  The form to ent all required field is displayed.  Common Name (CN) *  bridge.scheer-acme.com  Organizational Unit (OU)  Organization (O) *  Locality (L)  State or Province (ST)  Country (C) *	Subject DN	O=Snake Oil,CN=bridge.scheer-acme.com	
The form to ent all required field is displayed.  Create CSR  Common Name (CN) * bridge.scheer-acme.com  Organizational Unit (OU)  Organization (O) *  Locality (L)  State or Province (ST)  Country (C) *	Valid Not Before	Mon Sep 23 17:10:40 CEST 2019	
Create CSR  Create CSR  Common Name (CN) * bridge.scheer-acme.com  Organizational Unit (OU)  Organization (O) *  Locality (L)  State or Province (ST)  Country (C) *	Valid Not After	Thu Jul 14 17:10:40 CEST 2022	
Organizational Unit (OU)  Organization (O) *  Locality (L)  State or Province (ST)  Country (C) *	d'''l		
Organization (O) *  Locality (L)  State or Province (ST)  Country (C) *	Create CSR		The form to ent all required field is displayed.
Locality (L)  State or Province (ST)  Country (C) *		* bridge.scheer-acme.com	all required field
State or Province (ST)  Country (C) *	Common Name (CN)		all required field
Country (C) *	Common Name (CN) Organizational Unit (C		all required field
	Common Name (CN)  Organizational Unit (C)  Organization (O) *		all required field
Create CSR Cancel	Common Name (CN) Organizational Unit (CO) Organization (O) * Locality (L)	DU)	all required field
	Common Name (CN) Organizational Unit (C Organization (O) * Locality (L) State or Province (ST	DU)	all required field

Fields with an asterisk (\*) are mandatory.

Field	Description
Comm on Name (CN) *	The common name for the server that will use the SSL certificate must be the fully qualified domain name the domain name and the host name (if applicable). For example, in <b>bridge</b> . <b>scheer-acme.com</b> , <b>scheer-acme.com</b> is the domain name and <b>bridge</b> is the host name. If your fully qualified domain name does not include a host name, simply enter the domain name. A host name will not be included in your certificate. Check the common name during the enrollment process to ensure it is correct and is not the one of another Bridge domain member. After your SSL certificate has been issued, changing the common name requires re-enrollment at the full price of the certificate.

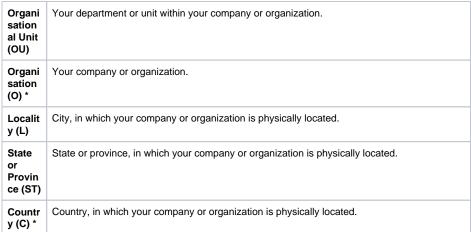
#### On this Page:

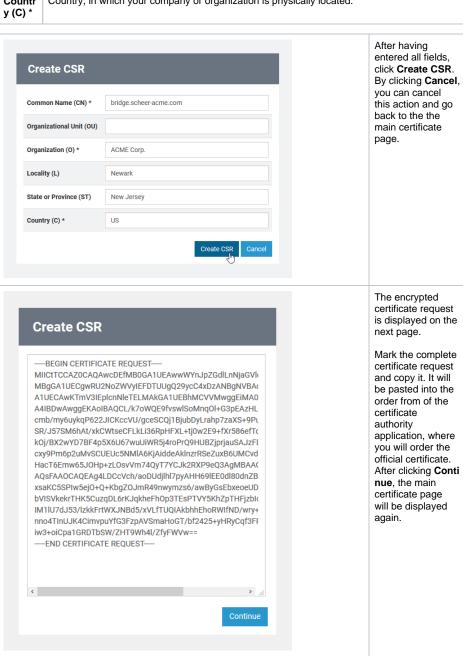
- Creating a Certificate Signing Request (CSR)
- Ordering an Official Certificate
- Installing a Certificate

   Manual Certificate
   Installation

#### **Related Pages:**

- Requesting and Installing a Certificate
- Importing and Exporting Proxy Server Certificates
- Renewing the Self-signed Proxy Certificate





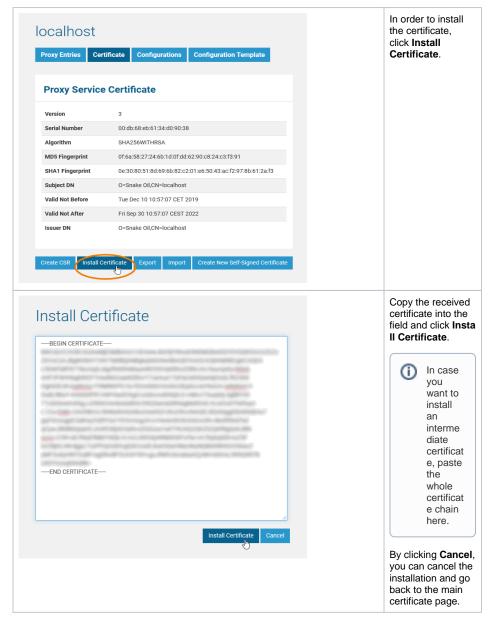
Ordering an Official Certificate

Order an official certificate from an certificate authority like VeriSign or Thawte. During ordering process you will come to a step were you have to paste the CSR that you have created before in step 1. If asked for a server platform, select **Apache**.

Once you have received the certificate from the certification company, you can continue to install the certificate on the Bridge (see further below).

### Installing a Certificate

Once you received a certificate from a certificate authority, you can install it on the Bridge. On the **Certificate** tab, all related actions can be executed, if the user has administration rights.



If the installation of the certificate has been successful, the main certificate page is displayed again. It now shows the information of the official certificate.

If the certificate does not fit to the server it was enrolled for, an error message like 'Wrong or invalid certificate!' will be displayed.

#### Manual Certificate Installation

You can also install proxy certificates manually to the Bridge. Proxy certificate locations are stored in file < your Bridge data directory>/proxies/templates/virtual\_host\_ssl.conf. To manually add a proxy certificate, do the following:

- Copy file virtual\_host\_ssl.conf from <your Bridge data directory>/proxies /system\_templates to <your Bridge data directory>/proxies/templates.
   Edit the file and add paths to your certificate files:

```
# virtual host ssl settings start
#
SSLEngine On
SSLCertificateFile "${SSL_CERTIFICATE}"
SSLCertificateKeyFile "${SSL_CERTIFICATE_KEY}"
# virtual host ssl settings end
```

Replace the placeholders \${SSL\_CERTIFICATE} and \${SSL\_CERTIFICATE\_KEY} by valid paths to certificate / key files. The certificate file may also contain a chain of certificates.

3. Restart the Bridge proxy via the Bridge administration console.