

How to create a Customer Certificate

Instruction to create Certificate for the first time.

Step-by-step guide

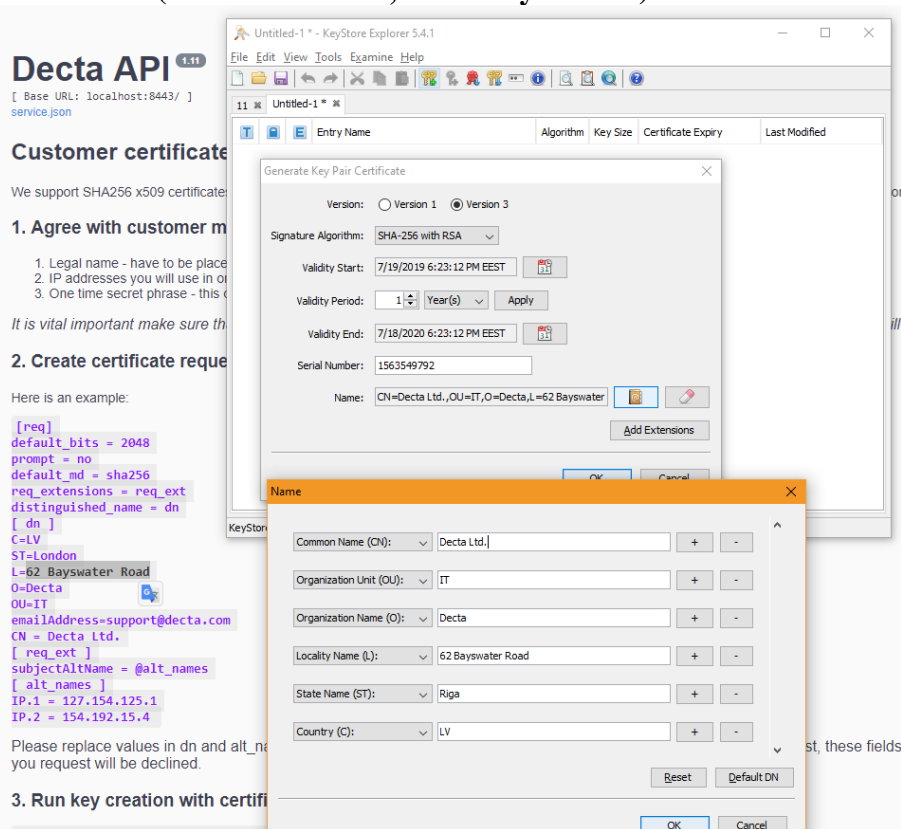
Precondition:

Request to create certificate. Provide "Client Name" and "Secret" values. As a result CN, Secret and IP should be received.

Check Swagger technical instructions [here](#).

After certificate request was processed, certificate should be created.

1. Download and install "KeyStore Explorer" ([Download Link](#))
2. Open "KeyStore Explorer" and add new KeyStore (with type: **PKCS # 12**)
3. Press "Generate Key Pair" button (type: **RSA 2048**)
4. While certificate creation - Fill in required fields in Name section. **Pay attention on fields CN and Email (should be added, absent by default).**



5. Add Extensions (**Alternative Name**), add IP

Decata API 4.11

[Base URL: localhost:8443/]
service.json

Customer certificate

We support SHA256 x509 certificates

1. Agree with customer manager

1. Legal name - have to place
2. IP addresses you will use in
3. One time secret phrase - this

It is vital important make sure th

2. Create certificate request

Here is an example:

```
[req]
default_bits = 2048
prompt = no
default_md = sha256
req_extensions = req_ext
distinguished_name = dn
[ dn ]
C=LV
ST=London
L=62 Bayswater Road
O=Decata
OU=IT
emailAddress=support@decata.com
CN = Decata Ltd.
[ req_ext ]
subjectAltName = @alt_names
[ alt_names ]
IP.1 = 127.154.125.1
IP.2 = 154.192.15.4
```

Please replace values in dn and alt_names sections with the values you request will be declined.

3. Run key creation with certificate request generation

6. After all information added and certificate is saved. CSR file should be generated. Select "Generate CSR" from dropdown menu on certificate. **Tick "Add certificate extensions to request"** to request"

2. Create certificate request configuration file csr.cfg

Here is an example:

```
[req]
default_bits = 2048
prompt = no
default_md = sha256
req_extensions = req_ext
distinguished_name = dn
[ dn ]
C=LV
ST=London
L=62 Bayswater Road
O=Decata
OU=IT
emailAddress=support@decata.com
CN = Decata Ltd.
[ req_ext ]
subjectAltName = @alt_names
[ alt_names ]
IP.1 = 127.154.125.1
IP.2 = 154.192.15.4
```

Please replace values in dn and alt_names sections with the values you request will be declined.

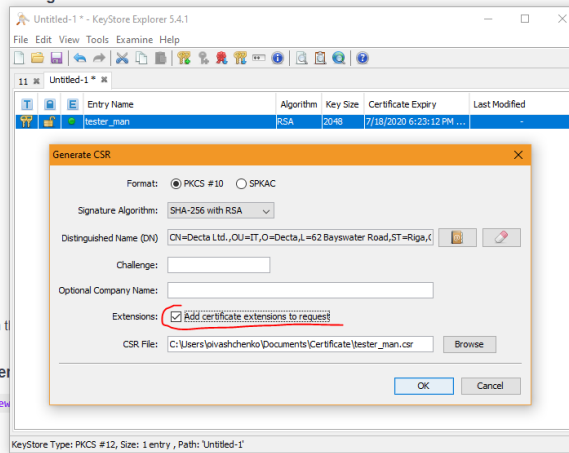
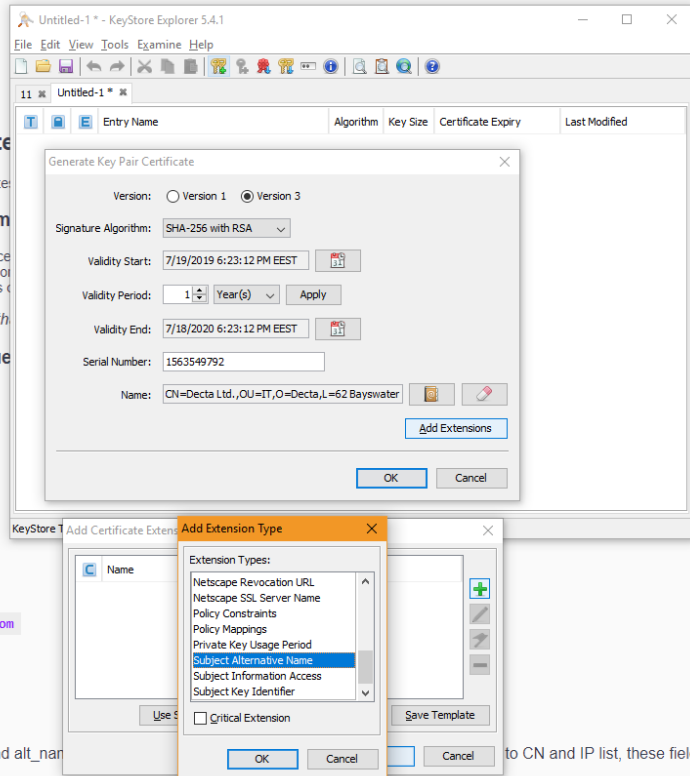
3. Run key creation with certificate request generation

```
openssl req -new -sha256 -nodes -out request.csr -newkey rsa:2048 -keyout key.pem
```

4. Sign certificate

Use data from request.csr as a parameter to certificate signing function described on this page. Make sure that the value of encodedCSR parameter is one line with new lines escaped getting 401, the value of SECRET is wrong. In case if response 412 received, certificate request contains wrong data.

7. Sign certificate using POSTMAN, with CSR from file (add CSR without spaces and add \n after header, and before footer) and secret in header.



Sign Certificate

POST https://t-dapi.decta.com:8443/v1/certificate/sign

Params Auth Headers (2) Body Pre-req. Tests Cookies Code (0) Response

raw JSON (application/json) Beautify

```

1 {
2   "encodedCSR": "-----BEGIN CERTIFICATE REQUEST
   -----\nMIIC8zCCAdsCAQAwYsKTAkBgkqhkiG9w0BCQEWGm9sZWluaXZh
   c2hjaGVua29AZGVjdGEuY29tMQswCQYDVQQGEWJMVjENMA5GA1UECAwEUm1
   nYTEwMBQGA1UEBwwNniBEIw50ZXMGsWVsYTEOMAwGA1UECgwFRGVjdGEuY29t
   A3BgNVBAsMAk1UMQ0wCwYDVQQDDARpbGVvMIIBIjANBgkqhkiG9w0BAQEFA
   AOCQAQ8AMIIBCgKCAQEAEzeMdiGQgi1r
   /0F93NLmp0u30rLy0CZpXjL8DrmmamNtcc8RU2yRq42dtYk2v9zymC
   /PPOPY8FoCtY9VQNBQ1yrDVK9akpvaU1UZrGrThLdKyGQCus/Kguy5
   +ufej0C6FyH5gRCXST4670A3cdGevMtyDxs7kmIPb90siSE0InZgsKXBD0
   w4AibaIVG7oW7ku6npzAuFiYEKZW/b4gjnt3kpvGyp4JAQH7Y8Wmp4w
   +tMDE++JMdc26AvkKuyYqM5dfoweSIblwFqySQ1FUQenw27UkrV4Rhg31vs
   WHreUzNft1WceZFcAaDni0Fi
   /w2sHvn8MppjZ6hvVNFqMQ22oQIDAQABoCIwIAYJKoZIhvcNAQkOMRmwETAP
   BgNVHREEDAGhwTAqHwMMA0GCSqGSIb3DQEBCwUAA4IBAQAprTG7TdzMsXw
   Fx32IwXYUi7rAbjpe2Yfd00FTnzYIauC9PAxys002cWc6H
   +NC75CyMffuCiFw2KBE0xRdQf95xUfNjDZVQD7wf2L88ynXVjK
   +4qxb9LP2JkhQvNpC1qLWvvtk9ju4ds2j9M7EFS1RVWkmCuGccxYIMmdrX1
   9fr1EqN6uBM1sIhMTwbnAh7z78Pxiw6YnXkqSM7VL1z5nUBa2HHy4A
   +RM91mBaahpuTtyHdLappXVBeY5q28CQCTWz8Mw6z3JN+cPKJ
   /sw2nupLd0ajVCy3Estwj8jVgA11FV6oZhkx9B1+HXhaD1P1gD
   +mjVsUoS009Wkdx0aNAO\n-----END CERTIFICATE REQUEST-----"
3 }

```

○

Sign Certificate

POST https://t-dapi.decta.com:8443/v1/certificate/sign

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Headers (2)

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> SECRET	TESTER_MAN	
<input checked="" type="checkbox"/> Content-Type	application/json	
Key	Value	Description

8. Check and Save response. If you are getting 401, the value of SECRET is wrong. In case if response 412 received, certificate request contains wrong data.

Information received from Response will be used in each request to DAPI.