



STCA PKI

Service presentation

April 2023



■ ■ Introduction

Introduction

- STCA service has been opened by FrenchSys on January the 1st of 2023
- STCA Registration imply:
 - New contract (different from the previous one dealt with PayCert)
 - Specific STCA contract
- FrenchSys ensures
 - New certificate generation
 - Revocation of PayCert issued certificates



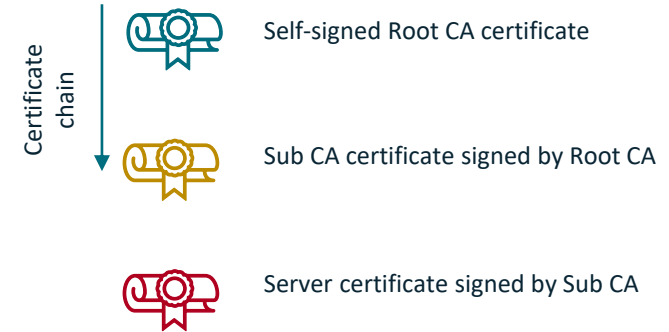
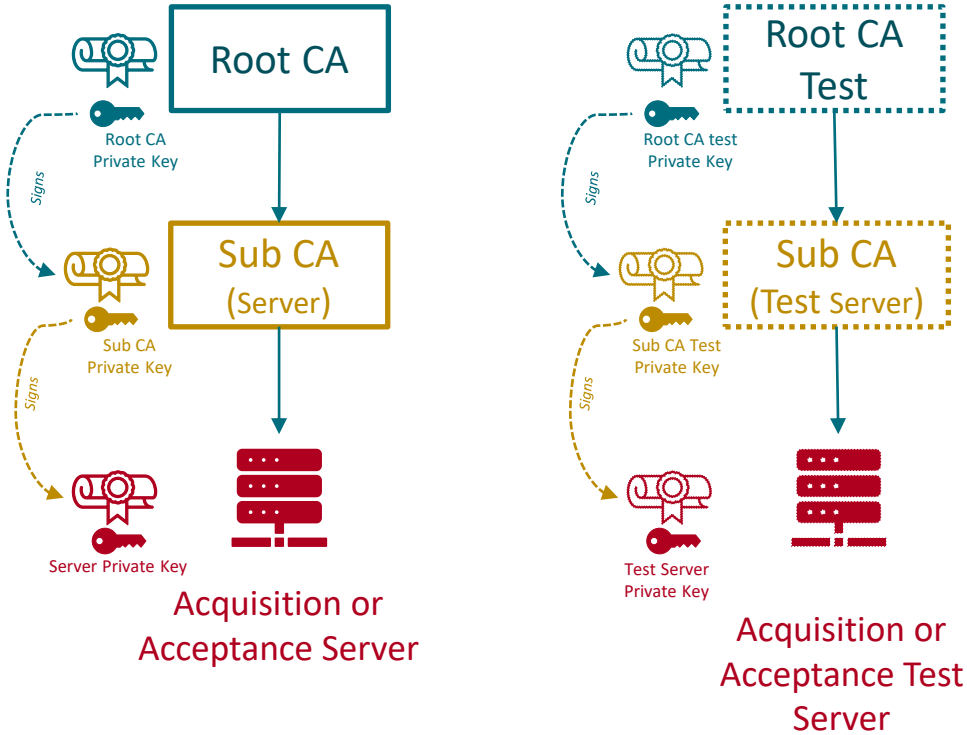


■ ■ Technical details



Technical organisation

CA of the STCA PKI



Documents

Current status



- The new certification policy v.2.0 (French only)
<https://www.frenchsys.com/nos-services/#stca>
- CRL, certificate chain and the previous Certification Policy v.1+
<https://www.secure-transactions-ca.eu/>
- Forms and contract must be asked at
stca2@frenchsys.com

Note: Forms and contracts are only in English





■ ■ Roles in the PKI





Roles in the PKI

FrenchSys side

- ■ Legal Certification Authority (CA)
 - ■ Publication of the PKI's policy and practices
 - ■ Revocation management
 - ■ Information on Certificates status

- ■ Registration Authority (RA)
 - ■ User Registration
 - ■ Management of Certificate Requests
 - ■ Certificate Delivery to the user
 - ■ May be distinct by CA





Roles in the PKI

FrenchSys side

■ Certification Provider (CP)

- Certificate issuing
- In charge of the technical aspects of the CA (HSM, issuing procedures, ...)
- May be distinct by CA





Roles in the PKI

Client's side

■ Client Representative

- Contract signatory
- Responsible for the Certificate Representative registration

■ Certificate Representative

- Entry point with FrenchSys
- Responsible for the Server Supervisor registration
- In charge of Certificate Request
- Authorised to revoke certificate

Note : The Client Representative is mandatorily different from the Certificate Representative





Roles in the PKI

Client's side

■ Server Supervisor

- In charge of the Server
- In charge of the STCA certificate for the Server
- Authorised to revoke certificate

Note : This role might be combined with the Certificate Representative





■ ■ Administrative procedures



Administrative procedures

Main changes

- All operations (registration, certificate request, certificate delivery) are done by ***electronic exchange*** (mail, Teams meeting ...)
- Procedure simplification
 - People involved
 - Elements to provide
 - Digital signature of documents (no scanning of documents)
- Recommendation
 - Operation to be performed before any Certificate Request
 - It is possible to do it in advance





Client Entity Registration

Enrolment

■ Operation

- Unique : only during registration to the PKI
- Made by the ***Client Representative***
- Must be made before any other operation

■ Process

- Provision of the less than 3 month old KBIS extract (for French companies) or any document identifying the company to the Trade and Company Register.
- Provision of the payment activity certificate (contract – Appendix 1)
- All the needed elements to authenticate the client entity
- **Contract Signature via DocuSign** (if needed it can be triggered by FrenchSys)





Client Representative Registration

■ Operation

- During Registration of the Client entity
- At each Client Representative change (dedicated form)

■ Process

- Fill in the Client Representative Registration form (and sign it)
- All the needed elements to authenticate the Client Representative





Certificate Representative Registration

■ Operation

- Made by the ***Client Representative***
- During Registration of the Client entity / before any certificate request
- At each Certificate Representative change

■ Process

- Fill in the Certificate Representative Registration form (and sign it)
- All the needed elements to authenticate the Certificate Representative
- Answers to authentication questions are retrieved by phone (STCA officer calls)

■ Elements to provide

- Only **MOBILE** phone number (no landline) !
- Do **NOT** answer the authentication questions on the form
- Generic contact address are supported (only for mail reminder)





Server Supervisor Registration

■ Operation

- Made by the ***Certificate Representative***
- During Registration of the Client entity / before any certificate request
- At each Server Supervisor change

Note : If the Certificate Representative is also a Server Supervisor then this process is not necessary

■ Process

- Fill in the Server Supervisor form (and sign it)
- Answers to authentication questions are retrieved by phone (STCA officer calls)

■ Elements to provide

- Only **MOBILE** phone number (if the Server Supervisor is the recipient of the certificates) !
- Do **NOT** answer the authentication questions on the form





Certificate lifecycle



Certificate Request

■ Operation

- Made by the ***Certificate Representative***
- Possibility to request several certificates at the same time

■ Process

- Fill in the Certificate Request form (**for each certificate**)
- Precise inside the form the recipient of the certificate (Certificate Representative or Server Supervisor)
- Fill in Order form (Contract – Appendix)
 - If a quotation is needed beforehand, contact the STCA service

■ Certificates are issued on Tuesdays

- Certificate Requests must be provided on Fridays at the latest



Certificate Delivery



■ Form elements

- Digital signature only and no form scanning
 - If it is not possible to digitally sign the form then CSR must be provided separately with the form
- CSR to paste in the form
- Up to 3 IP addresses available

■ Delivery

- The choice of the recipient is to be precised in the Certificate Request form
- Certificates are sent by mail in an encrypted zip file
- Password sent by SMS





Certificate end of life

- FrenchSys sends a reminder
 - At least 1 month before the end of the certificate validity
 - To the Certificate Representative

Note: It is important that contacts are up-to-date !!

- The renewal operation is identical to the first request





Certificate Revocation

- Made by the ***Certificate Representative or the Server Supervisor***
- With
 - Form (available on request)
 - Phone (at the end of this presentation, STCA website (*to come*), mail signature)
- Authentication thanks to the set of secret question/answer
- Emergency processing for the new certificate request
- Revocation of PayCert issued certificate is handled by FrenchSys





CRL management

CRL

- For the Root CA
- For the Sub CA

Location

- STCA website <https://www.secure-transactions-ca.eu/>

Frequency

- With each revocation
- At least once a year





FrenchSys
Intégrateur de solutions

Contacts

For any information !

■ Contact mail address

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■ STCA officers

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■ FrenchSys website

<https://www.frenchsys.com/nos-services/#stca>

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