

CERTIFICATION STATEMENT

PRACTICE

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SUMMARY

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1 INTRODUCTION

1.1 Overview

CERTIGNA has set up several Certification Authority (CA) to provide electronic certificates to legal and natural persons. This Certification Practice Statement (CPS) outlines the practices that CERTIGNA applies in the delivery of its electronic certification services to users in accordance with its Certification Policy (CP) which it has committed to respect. The reader's attention is drawn to the fact that the understanding of this CP guess he is familiar with the concepts related to the technology of Public Key Infrastructure (PKI).

This CPS aims to comply with the following standards and security levels:

| CERTIGNA ENTITY CA | | RGS | ETSI |
|---------------------------------|--------------------------|-----|--------------------------------------|
| Seal for emails and documents | 1.2.250.1.177.2.6.1.1.1 | * | EN 319 411-1 LCP |
| Seal for emails and documents | 1.2.250.1.177.2.6.1.4.1 | ** | EN 319 411-2 QCP-I-qscd |
| Seal for emails and documents | 1.2.250.1.177.2.6.1.42.1 | ** | |
| Seal for emails and documents | 1.2.250.1.177.2.6.1.41.1 | | EN 319 411-2 QCP-I-qscd |
| Seal for emails and documents | 1.2.250.1.177.2.6.1.7.1 | | EN 319 411-2 QCP-I |
| Seal for emails and documents | 1.2.250.1.177.2.6.1.8.1 | | EN 319 411-2 QCP-I / TS 119 495 DSP2 |
| Seal for timestamping tokens | 1.2.250.1.177.2.6.1.9.1 | | EN 319 411-2 QCP-I |
| Seal for timestamping tokens | 1.2.250.1.177.2.6.1.3.1 | * | EN 319 411-1 LCP |
| Seal for timestamping tokens | 1.2.250.1.177.2.6.1.6.1 | ** | EN 319 411-2 QCP-I-qscd |
| CERTIGNA ENTITY CODE SIGNING CA | | RGS | ETSI |
| Seal for code signing | 1.2.250.1.177.2.8.1.1.1 | * | EN 319 411-1 LCP |
| Seal for code signing | 1.2.250.1.177.2.8.1.2.1 | ** | EN 319 411-2 QCP-I-qscd |
| FR03 | | RGS | ETSI |
| Seal for 2D-DOC | 1.2.250.1.177.2.2.1.1 | * | EN 319 411-1 NCP+ |
| CERTIGNA SERVICES CA | | RGS | ETSI |
| Server authentication | 1.2.250.1.177.2.5.1.1.1 | * | EN 319 411-1 OVCP |
| Client authentication | 1.2.250.1.177.2.5.1.2.1 | * | EN 319 411-1 OVCP |
| Client/server authentication | 1.2.250.1.177.2.5.1.3.1 | | EN 319 411-2 QCP-w |
| Client/server authentication | 1.2.250.1.177.2.5.1.4.1 | | EN 319 411-2 QCP-w / TS 119 495 DSP2 |
| CERTIGNA WILD CA | | RGS | ETSI |
| Client/server authentication | 1.2.250.1.177.2.7.1.1.1 | | EN 319 411-1 OVCP |
| Wildcard authentication | 1.2.250.1.177.2.7.1.2.1 | | EN 319 411-1 OVCP |
| CERTIGNA IDENTITY CA | | RGS | ETSI |
| Encipherment | 1.2.250.1.177.2.3.1.1.1 | * | EN 319 411-1 LCP |
| Encipherment | 1.2.250.1.177.2.3.1.3.1 | * | EN 319 411-1 LCP |
| Authentication & signature | 1.2.250.1.177.2.3.1.2.1 | * | EN 319 411-1 LCP |
| Authentication & signature | 1.2.250.1.177.2.3.1.4.1 | * | EN 319 411-1 LCP |
| CERTIGNA IDENTITY PLUS CA | | RGS | ETSI |
| Authentication & signature | 1.2.250.1.177.2.4.1.1.1 | ** | EN 319 411-2 QCP-n-qscd |
| Authentication | 1.2.250.1.177.2.4.1.2.1 | *** | EN 319 411-1 NCP+ |
| Signature | 1.2.250.1.177.2.4.1.3.1 | *** | EN 319 411-2 QCP-n-qscd |
| Authentication & signature | 1.2.250.1.177.2.4.1.4.1 | ** | EN 319 411-2 QCP-n-qscd |
| Authentication | 1.2.250.1.177.2.4.1.5.1 | *** | EN 319 411-1 NCP+ |
| Signature | 1.2.250.1.177.2.4.1.6.1 | *** | EN 319 411-2 QCP-n-qscd |
| Authentication & signature | 1.2.250.1.177.2.4.1.7.1 | | EN 319 411-2 QCP-n |
| Authentication & signature | 1.2.250.1.177.2.4.1.8.1 | | EN 319 411-2 QCP-n-qscd |

In the event of any inconsistency between this CP and those Requirements, those Requirements take precedence over this CP.

1.2 Document Name and Identification

This CPS can be identified by the name of the «Certigna Root CA» and by its OID: 1.2.250.1.177.2.0.2. It describes the provisions implemented to meet the commitments made in the Certification Policy (CP) with the following OID: 1.2.250.1.177.2.0.1. Intermediate and final CA certificates issued under this root CA also have an OID to clearly identify the requirements of this CPS that apply.

1.2.1 Revisions

This CPS is grouping of all CPS of the intermediate CAs issued under this root CA. In order to facilitate access to information, it was decided to consolidate all of these documents into a single CPS. The table below shows the history of this CPS, and the history of the old versions of intermediate CA CPS on the following page:

| Ver. | Date | Document change |
|------|------------|--|
| 1.0 | 03/11/2008 | Creation |
| 1.1 | 01/02/2019 | Revision of the graphic chart and commitments. |
| 3.0 | 03/24/2020 | Grouping of CPS from intermediate CAs under this single CPS. New TESSI graphic chart: Precisions about: <ul style="list-style-type: none">- Compliance with 319 412 ETSI specifications (see 1.1, 7),- Possible causes for a certificate's revocation (see 4.9.1),- Retention of application files (see 5.5.2.1, 5.5.2.3, 9.4.1),- Punctual uploading of root CAs for LAR (see 6.2.7),- Reimbursement policy (see 9.1.5),- Insurance coverage (see 9.2.1),- Termination (see 9.6.6),- Delivery and Guarantee (see 9.7),- Limitations of liability (see 9.8),- Dispute resolution procedure (see 9.13),- Renunciation and force majeure (see 9.16). |
| 3.1 | 06/05/2020 | Precisions about: <ul style="list-style-type: none">- Authentication of CM or Certification Agent (see 3.2.3.2.1 and 3.2.3.4),- SAN field of FRO3 certificates (see 7.4.1.2). |
| 3.2 | 08/24/2020 | Reduction of the SSL/TLS certificates lifespan (see 7.4.2 and 7.4.3) |
| 3.3 | 11/02/2020 | Revision of the document and clarifications on: <ul style="list-style-type: none">- Areas applicable to the different certificates (see 1.4).- Procedures for validating PC / DPC / CGVU (see 1.5).- Reminder of the face to face applicable for NCP+ certificates (see 3.2.3.3.2).- Description of the SAN OID in FRO3 certificates (see 7.5.3.2).- Ordering of fields in the DN of certificates (see 7.5). |
| 3.4 | 06/14/2021 | Revision of the document and clarifications on: <ul style="list-style-type: none">- Role of Subscriber (see 1.3.3);- Validation period for domain names (see 3.2.2.4);- CAA DNS records of CERTIGNA (see 3.2.2.8);- Methods for demonstrating the compromise of a key (see 4.9.12);- Strategy for QWAC certificates (see 7.5.4.2);- Protection of personal data (see 9.4.1);- Obligations for CMs and Subjects (see 9.6.3);- Obligations for Subscribers (see 9.6.4). |

| | | |
|-----|------------|--|
| 3.5 | 12/01/2021 | Revision of the document and clarifications on: <ul style="list-style-type: none"> - URLs for accessing documentations and services; - Suppliers and applicable requirements (see 1.3.6.4); - Methods authorized for wildcard certificates (see 3.2.2.4.6); - Revocation reason for the loss of support qualification (see 4.9.1.1); - QWAC certificate strategy (see 7.5.4.2); - Profile of ARLs with reason for revocation (see 7.9); - The commitment to provide non-discriminatory services (see 9.15). |
|-----|------------|--|

1.2.2 Previous versions of the CPS grouped in this document

| Previous versions | Certification Authority associated to the CP |
|-------------------|--|
| 1.5 | Certigna Root CA |
| 1.7 | Certigna Entity CA |
| 1.5 | Certigna Entity Code Signing CA |
| 1.7 | FR03 |
| 2.4 | Certigna Services CA |
| 2.0 | Certigna Wild CA |
| 1.9 | Certigna Identity CA |
| 1.7 | Certigna Identity Plus CA |

1.3 PKI Participants

1.3.1.1 Certification authorities

The CA is responsible for the provision of certificate management services throughout their life cycle (generation, distribution, renewal, revocation, ...) and relies on a technical infrastructure: a PKI. The CA is responsible for the implementation of the CP to the PKI set in place. For certificates signed in its name, the CA has the following functions:

- Registration and renewal functions;
- Certificate generation function;
- Secret generation function;
- Publication function of the general conditions of the CP, CA certificates and certificate application forms;
- Revocation management function;
- Information function on the status of certificates via the Certificate Revocation List (CRL) updated at regular intervals and in a query mode / real-time response (OCSP).

The CA provides these functions directly or outsourcing them, some or all. In all cases, the CA retains responsibility. CA is committed to respecting the obligations described in the associated CP. It is also committed that the components of the PKI, internal or external to the CA, which they incumbent also respect them.

Finally, the parties of the CA concerned with certificate generation and revocation management are independent from other organizations regarding their decisions on the establishment, supply, maintenance and suspension of services; managers, support personnel and personnel with trusted roles are free from any pressure from commercial, financial or otherwise, could adversely affect the confidence in the services provided by the CA. The parties of the CA concerned with certificate generation and revocation management have a documented structure, which safeguards impartiality of operations.

1.3.2 Registration authorities

Registration authority provides the following functions, delegated by the CA under this CPS:

- The acquisition and verification of future information of Certificate Manager (CM) or Subject and his/her entity and the constitution of the corresponding registration files;
- The acquisition and verification of information, if applicable, of the future certification agent (*) and his/her business entity and the constitution of the corresponding registration files;
- The establishment and transmission of the certificate request to the CA;
- The archiving of the certificate request files;
- Conservation and protection of confidentiality and integrity of personal authentication data of the RC, Subject or of the Certification Agent;
- Verification of certificate revocation requests.

The RA performs these functions directly or with the contribution of Delegate Registration Authorities. In all cases, the RA remains responsible and the archiving of the registration files (electronic and / or paper) is the responsibility of the RA.

Unless stated otherwise, in this document, "RA" covers the Registration Authority and Delegated Registration Authorities.

(*): The RA offers the possibility to the client entity to use a designated Certification Agent who is under its responsibility to carry out all or part of the information verification. In this case, the RA ensures that applications are complete and carried out by an authorized Certification Agent.

1.3.3 Subscriber

A Subscriber is a natural person attached or not to the entity designated in the requested certificate, who orders one or more certificates for himself or in the name of a Certificate Subject or Manager. A Subscriber is responsible for the obligations incumbent on the Subscribers, as well as those incumbent on the Subjects or Certificate Manager, if applicable.

1.3.4 Certificate Manager or Subject

Two different terms are used in this CPS when it comes to referring to the person who is issued a certificate and who is in charge of managing it:

- We will refer to the "Certificate Manager" (CM) when the issued certificate is intended for an application service or a server, such as a seal service or a web server. The CM is the person in charge of managing the certificate but is not explicitly designated in this legal person certificate.
- We will refer to the "Subject" when the issued certificate is intended for a natural person, for signing, authenticating or encrypting data. The Subject is then the natural person explicitly named in the certificate.

The CM or Subject must meet the conditions and obligations that are set in the CP and Terms and Conditions of Sale and Use (TCSU).

1.3.4.1 Certificate Manager for a CA

For the root CA and the intermediate CAs, the CM can only be the CERTIGNA Certification Authority.

1.3.4.2 Certificate Manager for an application service or a web server

| | |
|---------------------------------|---------------------------------------|
| CERTIGNA ENTITY CA | <i>Seal for Mails/docs/Timestamps</i> |
| CERTIGNA ENTITY CODE SIGNING CA | <i>Seal for code signing</i> |
| FR03 | <i>Seal for 2D-DOC</i> |
| SERVICES CA | <i>Web authentication</i> |
| WILD CA | <i>Web authentication</i> |

CM can only be a natural person. It is responsible for the use of the certificate (and associated private key) in which the application service or the web server concerned is identified and the entity for which he/she uses the certificate and with which it maintains a contractual / reporting relationship / regulatory. The certificate is attached to the application service or the web server and not to the CM. In case of change of CM, the entity shall report it to the CA and appoint a successor. The CA revokes certificates for which there is no more CM explicitly identified.

| | |
|---|------------------------|
| FR03 | <i>Seal for 2D-DOC</i> |
| 2D-DOC issuers must be referenced by ANTS. According 2D-DOC standard, a referenced issuer corresponds to a referenced participant (legal entity signing the 2D-DOC) that relies on the solution of a referenced publisher (supplier of the technical solution). The issuer of 2D-DOC must designate at least one CM to obtain a certificate. The ANTS does not control users of 2D-DOC. | |

1.3.4.3 Subject of a natural person certificate

| | |
|---|--|
| CERTIGNA IDENTITY CA | <i>Authentication/signature/encipherment</i> |
| CERTIGNA IDENTITY PLUS CA | <i>Authentication/signature</i> |
| A subject can only be a natural person, player in the private or public sector. This person uses his/her private key and the corresponding certificate in the context of his/her personal activities or in relation to the entity identified in the certificate and with which he has a contractual, hierarchical or regulatory relationship. | |

1.3.5 Relying Parties

Certificate users must take all the precautions described in the associated CP as well as in the TCSU.

1.3.5.1 CA Certificate

| | |
|---|-------------------------|
| CERTIGNA ROOT CA | <i>Root CA</i> |
| Entity or physical person who uses a CA certificate and trusts it to verify the origin and the validity of a certificate issued by this CA. | |
| Intermediate CAs | <i>Intermediate CAs</i> |
| Entity or physical person who uses an intermediate CA certificate and trusts it to verify the origin and the validity of a certificate issued by this CA. | |

1.3.5.2 Legal Person Certificate

| | |
|--|---------------------------------------|
| CERTIGNA ENTITY CA | <i>Seal for Mails/docs/Timestamps</i> |
| CERTIGNA ENTITY CODE SIGNING CA | <i>Seal for code signing</i> |
| FR03 | <i>Seal for 2D-DOC</i> |
| An electronic seal certificate user can be: <ul style="list-style-type: none"> - A user recipient of signed data by a seal application service that uses the electronic seal certificate and a seal verification module to authenticate the origin of the transmitted data. - An application service recipient of data from another application service and which uses the electronic seal certificate and a seal verification module to authenticate the origin of the transmitted data. - An application service which signs electronic data. | |

| | |
|---|---------------------------|
| SERVICES CA | <i>Web authentication</i> |
| WILD CA | <i>Web authentication</i> |
| An electronic web authentication certificate user can be: <ul style="list-style-type: none"> - A person accessing to a server and using the server certificate and an authentication verification module to authenticate the server it is accessing, which is identified in the server certificate to establish a session key shared between his/her system and the server - An application service accessing to a server and using the server certificate and an | |

authentication verification module to authenticate the server it is accessing, which is identified in the server certificate to establish a session key shared between the servers.

1.3.5.3 Natural Person Certificate

| | |
|--|--|
| CERTIGNA IDENTITY CA | <i>Authentication/signature/encipherment</i> |
| CERTIGNA IDENTITY PLUS CA | <i>Authentication/signature</i> |
| Authentication and Signature | |
| An authentication and signature certificate user can be: | |
| <ul style="list-style-type: none">- An online service that uses a certificate and an authentication verification device to validate an access request made by the certificate subject in the context of an access control or to authenticate the origin of a message or data transmitted by the Subject of the certificate;- An online service that uses a signature verification device to verify the electronic signature on the data or a message of the subject of the certificate;- A user recipient of a message or data and who uses a certificate and an authentication verification device to authenticate its origin.- A user who electronically sign a document or a message;- A user recipient of a message or data and who uses a certificate and a signature verification device to verify the electronic signature created by the Subject of the certificate on this message or data. | |
| Authentication | |
| An authentication certificate user can be: | |
| <ul style="list-style-type: none">- An online service that uses a certificate and an authentication verification device to validate an access request made by the certificate subject in the context of an access control or to authenticate the origin of a message or data transmitted by the Subject of the certificate;- A user recipient of a message or data and who uses a certificate and an authentication verification device to authenticate its origin. | |
| Signature | |
| A signature certificate user can be: | |
| <ul style="list-style-type: none">- An online service that uses a signature verification device to verify the electronic signature on the data or a message of the Subject of the certificate;- A user who electronically sign a document or a message;- A user recipient of a message or data and who uses a certificate and a signature verification device to verify the electronic signature by the Subject of the certificate on this message or data. | |
| Encipherment | |
| An encipherment certificate user can be: | |
| <ul style="list-style-type: none">- An online service that uses an encryption device to encrypt data or a message intended to the certificate Subject;- A person who transmits an encrypted message intended for the certificate Subject. | |

1.3.6 Other Participants

1.3.6.1 Delegated Registration Authority

CA also relies on Delegated Registration Authorities (DRA) to outsource a part of RA's functions. A DRA operator has the power to:

- process a certificate generation or renewal;
- process a certificate revocation;
- record, if appropriate, the Certification Agents belonging to the entities which request certificates.

A DRA operator performs for the authority, in the context of issuance of the certificate, the verification of future CM or Subject identity under the same conditions and with the same level of safety as those required for the RA operator. For this it is directly related to RA.

The commitments of the DRA operator against CA are specified in a written agreement with the responsible entity of the operator and in the commitment letter to be signed by the latter. Both documents include state that the operator must perform impartial and scrupulous verification of the identity and of the possible future CM or Subject attributes and application services. He/she must also respect the parts of the CP and this CPS incumbent on him.

1.3.6.2 Certification Agent

CA offers the opportunity for the client's entity to designate one or more Certification Agents. The Certification agent has, by law or by delegation, the power to:

- request a certificate generation or renewal certificate on behalf of the entity;
- request a certificate revocation on behalf of the entity.

The certification agent can be a legal representative of the entity or any person that the latter has formally designated. He or she provides for the CA, in the context of the issuance of certificates, the identity verification of future Certificate Managers under the same conditions and with the same level of safety as those required for the RA operator. For this it is directly in contact with the Registration Authority.

The commitments of the Certification Agent in respect of the CA are specified in a written agreement with the entity responsible of the Certification Agent and in the commitment letter to be signed by the Certification Agent. Both documents specify that the Certification Agent must perform impartial and scrupulous verification of the identity and of the possible future CM or Subject attributes and application services. He/she must also respect the parts of the CP and this CPS incumbent on him.

The entity shall promptly report to CA, the Certification Agent's departure from office and possibly appoint a successor. The Certification Agent shall not have access to the private key activation data associated with the certificate issued to CM or Subject.

1.3.6.3 National Competent Authority

| | |
|--|---------------------------------------|
| CERTIGNA ENTITY CA | <i>Seal for mails/docs/timestamps</i> |
| SERVICES CA | <i>Web authentication</i> |
| TS 119 495 DSP2 | |
| <p>According to PSD2 and Capital Requirements Directive, the competent authority (NCA) responsible for payment services approves or rejects authorization of PSPs in their own country. If authorization is granted, the NCA lists the respective PSP in the national public register, together with an identification number, which could be, but is not necessarily, an authorization number.</p> <p>Subject to NCA approval PSPs can exercise the right of establishment and freedom to provide services in other Member States. This is called passporting. Information about passporting is published in the public register in the home country of the PSP or the EBA PSD2 Register.</p> | |

Certificates issued according to the requirements laid down in the present document do not include any attributes regarding passporting.

1.3.6.4 Customer service

To ensure a responsive service that meets requirements, Certigna can use a provider specializing in “Customer services” to assist its prospects and customers in their requests relating to certificates. To this end, the operators of this entity are recruited as operator of DRA to allow them to access the application files and to assist subscribers in their procedures.

A contract of DRA is established with the entity in charge of this service. The provider thus undertakes to respect the parts of the CP and of this CPS incumbent on him/her, and in particular the commitments of Chapters 3 and 4.

1.3.6.5 Hosts of the technical infrastructure

Certigna may use a provider for the physical hosting of its technical infrastructure. A contract is established with the provider to guarantee the security of the services in accordance with the commitments of chapter 5.1 of the Certification Policy.

1.3.6.6 Providers of cryptographic device

The cryptographic device, delivered, if necessary, by Certigna to the Subject or to the CM, to store and use the private key and the certificate, can be acquired from a supplier with whom a contract is established aiming to guarantee the conformity of the cryptographic device with a or several qualifications and / or certifications cited in chapter 11 of the Certification Policy.

Despite these provisions, it is important to remember that if one of these qualifications or certifications is no longer maintained or suspended for reasons such as the identification of a vulnerability or the cessation of production of the product, Certigna will inform the Subject or the CM and revoke their certificate, without any condition of reimbursement.

1.4 Certificate Usage

1.4.1 Appropriate Certificate Uses

RGS *** / QCP-I-qscd / QCP-n-qscd / QCP-w

The electronic certificates are used for applications where security needs are very strong given the high risks that threaten them.

RGS ** / QCP-I / QCP-n / NCP + / OVCP

The electronic certificates are used for applications where security needs are strong given the high risks that threaten them.

RGS * / LCP

The electronic certificates are used for applications where security needs are moderate given the risks that threaten them.

1.4.1.1 CA Certificate

| | |
|--|-------------------------|
| CERTIGNA ROOT CA | <i>Root CA</i> |
| The root CA key pair is used for signing intermediate CA certificates and Authorities Revocation Lists (ARLs). | |
| Intermediate CAs | <i>Intermediate CAs</i> |
| The intermediate CA key pair is used for signing final certificates and Certificate Revocation Lists (CRLs). | |

1.4.1.2 Legal Person Certificate

| | |
|--|---------------------------------------|
| CERTIGNA ENTITY CA | <i>Seal for mails/docs/timestamps</i> |
| CERTIGNA ENTITY CODE SIGNING CA | <i>Seal for code signing</i> |
| FR03 | <i>Seal for 2D-DOC</i> |
| Seal for mails and documents | |
| The uses are the electronic signature of data and the electronic signature verification. This data can be, for example, an acknowledgment following the transmission of information by a user to an application service, the data of a 2D code for example of Datamatrix type, an automatic response to a request by a user, an email, a document or an archive. | |
| Seal for code signing | |
| The uses are the electronic signature of application code and the electronic signature verification. | |
| Seal for timestamping tokens | |
| The uses are the electronic signature of timestamp tokens and the electronic signature verification. | |

| | |
|--|---------------------------|
| SERVICES CA | <i>Web authentication</i> |
| WILD CA | <i>Web authentication</i> |
| TLS/SSL Client/server authentication | |
| Server authentication from other servers or person, as part of establishing secure sessions, such as SSL / TLS or IPsec to establish a symmetric session key to encrypt the exchanges in this session. The establishment of the session key can be done by an RSA or type Diffie-Hellman asymmetric cryptographic mechanism (obtaining the symmetric key using an algorithm combining the client private key and public key of the server, and inversely). | |

1.4.1.3 Natural Person Certificate

| | |
|--|--|
| CERTIGNA IDENTITY CA | <i>Authentication/signature/encipherment</i> |
| CERTIGNA IDENTITY PLUS CA | <i>Authentication/signature</i> |
| Authentication | |
| Authentication of subjects on remote servers or to other people. It may be authentication in the framework of an access control to a server or an application, or authentication of data's origin in the context of the electronic mail. | |
| Signature | |
| Data electronic signature. Such electronic signature brings, besides the authenticity and integrity of signed data, the manifestation of consent of the signatory for the content of these data. | |
| Authentication and signature | |
| All the uses identified above for separate authentication and signature uses. | |

Encipherment

- Decrypt: using its private key, a Subject decrypts the data that were transmitted through electronic exchanges, encrypted with his/her public key;
- Encryption: using the recipient's public key, a person ciphers some data for this recipient.

1.4.2 Forbidden usage domains

Uses other than those mentioned in the previous paragraph are prohibited. The CA agrees to comply with these restrictions and to enforce compliance by Certificate Managers, Subjects and certificate users. To this end, it publishes to the CM, Subjects, Certification Agent and potential users the TCSU that can be found on the site <https://www.certigna.com> before any request or use of a certificate.

1.5 Policy Administration

1.5.1 Organization Administering the Document

The CA has a Security Committee responsible for the development, monitoring and modification of this CP and the Certification Practice Statement (CPS). It shall act on any necessary changes to be made to the CP at regular intervals.

The formal validation of the CP, the CPS and the CGVU is ensured at a minimum by one person in a trusted role of controller and one person in a trusted role of security officer.

1.5.2 Contact Person

CERTIGNA
20 allée de la Râperie
Zone de la plaine
59650 Villeneuve d'Ascq
FRANCE

Contact by email: contact@certigna.fr
Phone number : 0 806 115 115 (Free service)

1.5.3 Person Determining CPS Suitability for the Policy

The Security Committee ensures the compliance of the CPS with the CP. IT can optionally be assisted by external experts to ensure compliance.

1.5.4 CPS approval procedures

The CPS translates into technical, organizational, and procedural terms the requirements of the CP based on the company's "Information security policy". The Security Committee shall ensure that the means used and described in this CPS meet these requirements as the approval process in place. A compliance check of the CPS against the CP is made through the internal and external audits for the CA qualification.

Any update request of the CPS also follows this process. Any new approved version of the CPS is published without delay.

1.6 Définitions et acronymes

1.6.1 Definitions

Useful terms to the understanding of the CP are the followings:

Administrative authorities - This term refers to government departments, local authorities, public administrative institutions, the bodies administering social protection systems and other bodies responsible for the management of an administrative public service.

Agent – Individual acting on behalf of an administrative authority.

Application Developer - A manager of a service of the public sphere electronically accessible.

Authorities Revocation List - List including the serial numbers of the certificates of intermediate authorities which have been revoked, and signed by the root CA.

Business Entity: Any entity that is not a Private Organization, Government Entity, or Non-Commercial Entity as defined herein. Examples include, but are not limited to, general partnerships, unincorporated associations, sole proprietorships, etc.

Certification Authority - In a CSP, a Certification Authority is responsible, on behalf and under the responsibility of this CSP, applying at least one certification policy and is identified as such, as an issuer («issuer» field of the certificate).

Certificate Manager - Person in charge and responsible of the electronic certificate used by an application service.

Certification Policy - A set of rules, identified by a name (OID), defining the requirements that a CA comply in the implementation and delivery of its services and indicating the applicability of a certificate to a specific community and / or a class of applications with common security requirements. A CP can also, if necessary, identify the obligations and requirements on other stakeholders including Subject and certificate users.

Certification Practice Statement - A CPS identifies practices (organization, operational procedures, technical and human resources) that the CA applies under the provision of its certification services to users and in accordance with the policies or certification that it has committed.

Certificate revocation list - List including serial numbers of certificates that have been revoked, and signed by the issuing CA.

Certification service provider - Any person or entity who is responsible for the management of electronic certificates throughout their life cycle, towards the Subject and users of these certificates.

Certificate Subject - Person identified in the certificate and is the holder of the private key corresponding to the public key.

Certificate user - Entity or natural person who uses a certificate which it relies to verify an electronic signature or an authentication value from a certificate holder or encrypt data to a

certificate holder.

Component - Platform operated by an entity and comprised of at least one computer station, an application and, where applicable, cryptographic means. Component play a specific role in the operational implementation of at least one function of PKI. The entity may be the CSP itself or an external entity related to CSP contractual, regulatory or hierarchical.

Electronic Certificate - Electronic file certifying the link between a public key and the identity of its owner (natural or legal person or system). This certificate takes the form of an electronic signature made by a CSP. It is issued by a CA. The certificate is valid for a given period specified therein.

Electronic Seal - Digital Seal done by an application server with data to be used either as part of an authentication service data origin, either as part of a service non-repudiation.

Entity - Means an administrative authority or a company in the broadest sense, namely also legal persons of private law type associations. It can be a Private Organization, Government Entity, Business Entity, or Non-Commercial Entity.

European Banking Authority PSD2 Register - Register of payment institutions and e-money institutions developed, operated and maintained by the EBA under article 15 of Directive (EU) 2015/2366.

FQDN - Fully qualified domain name indicating the absolute position of a node in the DNS tree and specifying the top-level domains to the root.

Information System - Any set of means to develop, process, store or transmit information subject to electronic exchange between users and administrative authorities and between administrative authorities.

Jurisdiction of Incorporation - In the context of a Private Organization, the country and (where applicable) the state or province or locality where the organization's legal existence was established by a filing with (or an act of) an appropriate government agency or entity (e.g. where it was incorporated). In the context of a Government Entity, the country and (where applicable) the state or province where the Entity's legal existence was created by law.

Jurisdiction of Registration - In the case of a Business Entity, the state, province, or locality where the organization has registered its business presence by means of filings by a Principal Individual involved in the business.

Legal existence - A Private Organization, Government Entity, Business Entity or Non-Commercial Entity has Legal Existence if it has been validly formed and not otherwise terminated, dissolved, or abandoned.

Legal representative (principal individual) - An individual of a Private Organization, Government Entity, or Business Entity who is either an owner, partner, managing member, director, or officer, as identified by their title of employment, or an employee, contractor or agent authorized by such entity or organization to conduct business related to the request, issuance, and use of certificates.

Private organization - A non-governmental legal entity (whether ownership interests are privately held or publicly traded) whose existence was created by a filing with (or an act of) the Incorporating Agency or equivalent in its Jurisdiction of Incorporation. In France, incorporation is done with Business and Society Register.

Payment Service Provider (PSP) – Provider authorized by its national competent authority (NCA) to act in one or more of the following roles:

- account servicing (PSP_AS);
- payment initiation (PSP_PI);
- account information (PSP_AI);
- issuing of card-based payment instruments (PSP_IC).

Protection device secret elements - Refers to a storage device of secret elements given to CM or Subject (e.g. private key, PIN, ...). It can take the form of a smart card, USB key with cryptographic capability or report to software format (ex. PKCS # 12 file).

Public Key Infrastructure - Components, functions and procedures dedicated to the management of cryptographic keys and certificates used for trusted services. PKI can be composed of a CA, a certification operator, a centralized registration authority and / or local certification agents, an archiving entity, a publishing entity, ...

Qualification of electronic certification service provider - The RGS Decree and eIDAS Regulation describe the CSP qualification procedure. A CSP being a specific Trust Service Provider, the qualification of a CSP is an act by which a certification body certifies the compliance of all or part of the electronic certification service provided by a CSP (family of certificates) to certain requirements of a CP for a given level of security and for the service covered by the certificates.

Qualification of a security product - Act by which ANSSI attests to the ability of a product to ensure with a given level of robustness, security features purpose of qualification. The qualification certificate states in the ability of the product to participate in the realization at some level of security of one or more functions covered in the RGS. The qualification procedure for security products is described in the decree RGS. The RGS specifies three qualification process: basic level qualification, standard level qualification and level strengthened qualification.

Qualified Government Information Source (QGIS) - A regularly-updated and current, publicly available, database designed for the purpose of accurately providing the information for which it is consulted, and which is generally recognized as a dependable source of such information provided that it is maintained by a Government Entity, the reporting of data is required by law, and false or misleading reporting is punishable with criminal or civil penalties.

Qualified Government Tax Information Source (QTIS) - An Information Source that specifically contains tax information relating to Private Organizations, Business Entities or Individuals.

Qualified Independent Information Source (QIIS) - A regularly-updated and publicly available database that is generally recognized as a reliable source for certain information.

Regulatory Technical Standard for PSD2 - Regulatory Technical Standard for PSD2 strong customer authentication and common and secure open standards of communication.

RSA - Public key algorithm (Rivest, Shamir and Adleman).

Security product - a software or hardware that implements security features necessary for securing information or system.

Seal verification application - This is the application implemented by the user to check the seal of the data received from the server's public key contained in the certificate.

Timestamping Authority - Authority responsible for the management of a timestamp service.

User - Individuals acting for its own account or on behalf of a corporation and making electronic communications with administrative authorities.

User applications - Application services operating certificates issued for the Certification Authority seal service needs which the certificate is associated.

Note - An agent of an administrative authority which conducts electronic exchange with another administrative authority is, for the latter, a user.

Note - In the remainder of the document, the term "entity" is used to designate a company or an administration. The name "enterprise" covers enterprises in the broadest sense, namely all legal persons governed by private law: companies, associations as well as craftsmen and self-employed workers.

1.6.2 Acronyms

Useful abbreviations for the understanding of this CP are the followings:

| | |
|------|---|
| AA | Administrative Authority |
| ARL | Authority Revocation List |
| BCP | Business Continuity Plan |
| CA | Certification Authority |
| CAA | Certification Authority Authorization |
| CAG | Certification Agent |
| CM | Certificate Manager |
| CNIL | National Commission for Computing and Liberties |
| CP | Certification Policy |
| CPS | Certification Practice Statement |
| CRL | Certificate revocation list |
| CSP | Certification Service Provider |
| CSR | Certificate Signature Request |
| DN | Distinguished Name |
| DNS | Domain Name System |
| DRA | Delegate Registration Authority |
| EBA | European Banking Authority |
| ETSI | European Telecommunications Standards Institute |
| EV | Extended Validation |
| FQDN | Fully Qualified Domain Name |
| TCSU | Terms and Conditions of Sale and Use |
| ICD | International Code Designator |

| | |
|------|---|
| INPI | National Institute of Industrial Property |
| ISS | Information systems security |
| NCA | National Competent Authority |
| CO | Certification Operator |
| OCSP | Online Certificate Status Protocol |
| OID | Object Identifier |
| PP | Protection Profile |
| PKCS | Public Key Cryptographic Standards |
| PKI | Public Key Infrastructure |
| PSD2 | Payment Services Directive 2 |
| PSP | Payment Service Provider |
| RA | Registration Authority |
| RSA | Rivest Shamir Adleman |
| RTS | Regulatory Technical Standard for PSD2 |
| SCT | Signed Certificate Timestamp |
| SSL | Secure Sockets Layer |
| TLS | Transport Layer Security |
| TSP | Trust Service Provider |
| URL | Uniform Resource Locator |
| UTC | Universal Time Coordinated |

2 RESPONSIBILITIES REGARDING THE PROVISION OF INFORMATION HAVING TO BE PUBLISHED

2.1 Repositories

2.1.1 Entity in charge of providing information

The CA provides to users and applications using certificates it issues, information about the revocation status of valid certificates issued by the CA.

2.1.2 Information to be Published

The CA issues to the CM, Subjects and certificate users:

- The CP;
- The CPS;
- The Terms and Conditions of Sale and Use (TCSU) of CA certification services;
- The various forms required for certificate management (certificate request, revocation request, ...);
- The Root CA certificate and valid intermediate CA certificates;
- The Certificate Revocation List (ARL / CRL);

Note: Due to the complexity of reading a CP for Subjects or certificate users not experts in the field, the CA publishes outside the CP, the CPS and TCSU that the future CM or Subjects is obliged to read and to accept in all certificate request (initial and subsequent requests, in case of renewal) to the RA.

2.2 Publication of Information

2.2.1 Publication of CP, Terms and conditions, and forms

The CP, the CPS, the TCSU of the CA certification services and the various forms required for certificate management are published in electronic format at <https://www.certigna.com>. Information is also published at <http://www.dhimyotis.com>.

2.2.2 Publication of CPS

The CA issues, to the CM, Subjects and certificate users, the CPS to make possible the assessment of compliance with this CP. Details on its practices are however not made public.

2.2.3 Publication of CA Certificate

The CM, Subjects and certificate users can access the CA certificates that are issued at the following URL <https://www.certigna.com/autorite-crl> or directly via the URLs listed in the following table. All publication services are hosted by the CA on several information systems to ensure a high availability. To detect and correct as soon as possible any incident occurring during the operation of one of these sites, the following measures have been deployed:

- Introduction of on-call during non-business hours.
- Subscription to a security monitoring service (24 hours a day).
- Installation and operation of a monitoring software to monitor all the components of the technical platform (servers, equipment, processes) and to send real-time alerts in case of detection of an incident.
- Development and implementation of scripts to automate and simplify load balancing from one site to another.

| CERTIGNA ROOT CA | |
|---------------------------------|--|
| CA certificate | http://autorite.certigna.fr/certignarootca.der http://autorite.dhimyotis.com/certignarootca.der |
| CERTIGNA ENTITY CA | |
| CA certificate | http://autorite.certigna.fr/entityca_rootca.der http://autorite.dhimyotis.com/entityca_rootca.der |
| CERTIGNA ENTITY CODE SIGNING CA | |
| CA certificate | http://autorite.certigna.fr/entitycsca_rootca.der http://autorite.dhimyotis.com/entitycsca_rootca.der |
| FR03 | |
| CA certificate | http://autorite.certigna.fr/2ddoc.der http://autorite.dhimyotis.com/2ddoc.der |
| CERTIGNA SERVICES CA | |
| CA certificate | http://autorite.certigna.fr/servicesca_rootca.der http://autorite.dhimyotis.com/servicesca_rootca.der |
| CERTIGNA WILD CA | |
| CA certificate | http://autorite.certigna.fr/wildca_rootca.der http://autorite.dhimyotis.com/wildca_rootca.der |
| CERTIGNA IDENTITY CA | |
| CA certificate | http://autorite.certigna.fr/identca_rootca.der http://autorite.dhimyotis.com/identca_rootca.der |
| CERTIGNA IDENTITY PLUS CA | |
| CA certificate | http://autorite.certigna.fr/identityplusca_rootca.der http://autorite.dhimyotis.com/identityplusca_rootca.der |

2.2.4 Publication of Test Certificates

For web authentication certificates, test certificates are published to allow user applications such as browsers to test their interpretation of the status of certificates.

| CERTIGNA | |
|---------------------|---|
| Valid certificate | https://valid.servicesca-racine.dhimyotis.com |
| Expired certificate | https://expired.servicesca-racine.dhimyotis.com |
| Revoked certificate | https://revoked.servicesca-racine.dhimyotis.com |
| CERTIGNA ROOT CA | |
| Valid certificate | https://valid.servicesca.dhimyotis.com |
| Expired certificate | https://expired.servicesca.dhimyotis.com |
| Revoked certificate | https://revoked.servicesca.dhimyotis.com |

2.2.5 Publication of LAR

The Authority certificate revocation list is published electronically at the URLs described in the table above. These URLs are also indicated in the certificates.

| CERTIGNA ROOT CA et AC intermédiaires | |
|---------------------------------------|--|
| LAR | http://crl.certigna.fr/certignarootca.crl http://crl.dhimyotis.com/certignarootca.crl |

2.2.6 Publication of CRL

The certificate revocation list is published electronically at the URLs described in the table above. These URLs are also indicated in the certificates issued by the CA.

| CERTIGNA ENTITY CA | |
|---------------------------------|--|
| CRL | http://crl.certigna.fr/entityca.crl http://crl.dhimyotis.com/entityca.crl |
| CERTIGNA ENTITY CODE SIGNING CA | |
| CRL | http://crl.certigna.fr/entitycsca.crl http://crl.dhimyotis.com/entitycsca.crl |
| FR03 | |
| CRL | http://crl.certigna.fr/2ddoc.crl http://crl.dhimyotis.com/2ddoc.crl |
| CERTIGNA SERVICES CA | |
| CRL | http://crl.certigna.fr/servicesca.crl http://crl.dhimyotis.com/servicesca.crl |
| CERTIGNA WILD CA | |
| CRL | http://crl.certigna.fr/wildca.crl http://crl.dhimyotis.com/wildca.crl |
| CERTIGNA IDENTITY CA | |
| CRL | http://crl.certigna.fr/identca.crl http://crl.dhimyotis.com/identca.crl |
| CERTIGNA IDENTITY PLUS CA | |
| CRL | http://crl.certigna.fr/identityplusca.crl http://crl.dhimyotis.com/identityplusca.crl |

2.3 Time or Frequency of Publication

2.3.1 Publication of documentation

The CP, the CPS, the TCSU and the various forms required for certificate management are updated, if necessary, to ensure consistency at any time between the published information and the CA's actual commitments, means and procedures. The publication function based on this information (excluding certificate status information) is available on workdays.

2.3.2 Publication of CA certificates

CA certificates are published prior to any publication of certificates issued by the CA and corresponding CRLs. Availability of systems publishing CA certificates is guaranteed 24/7.

2.3.3 Publication of ARL

The ARL is updated at least once every year, and at each new revocation.

2.3.4 Publication of CRL

The CRL is updated at least every 24 hours, and at each new revocation.

2.4 Access Controls on Repositories

Access to information published to users is free. Access to change the publishing systems (add, delete, change the information published) is strictly limited to authorized internal functions of the PKI, through a strong access control, based on a two-factor authentication. Access to the publishing system requires a double authentication: user session and the use of a user certificate stored in a dedicated device.

2.5 Report a Malicious or Dangerous Certificate

For reporting a malicious or dangerous certificate (suspected Private Key compromise, certificate misuse, or other types of fraud, compromise, inappropriate conduct, etc.) or any other matter related to certificates, use the contact form available at <https://www.certigna.com/contactez-nous/> by selecting "Certificate considered malicious or dangerous".

3 IDENTIFICATION AND AUTHENTICATION

3.1 Naming

3.1.1 Types of names

In each certificate compliant with X.509 Standard, the issuing CA (corresponding to the "issuer" field) and the legal or natural person ("subject" field) are identified by a "Distinguished Name" conform with the requirements of the X.501 Standard.

3.1.2 Need for Names to Be Meaningful

The certificate DN identifies the legal or natural person and is built from the identity of the service, the server or the Subject specified in his/her identity document provided during the registration with the RA or the Certification Agent.

The DN format is defined at chapter "7.2 Profile of certificates and CRL" of this CPS.

3.1.3 Anonymity or pseudonymity

The CA does not issue certificates with an anonymous identity.

3.1.4 Rules for Interpreting Various Name Forms

No interpretation is made on the name inside the certificates.

3.1.5 Uniqueness of Names

Note: The attribute serialNumber present in the DN field and the certificate serialNumber field are distinct data.

3.1.5.1 CA Certificate

| CERTIGNA ROOT CA & AC intermédiaires | AC racine & intermédiaires |
|---|----------------------------|
| CA ensure that names positioned in the CN field of Intermediate CA certificates are unique in the CA perimeter. | |

3.1.5.2 Legal Person Certificate

| FR03 | Seal for 2D-DOC |
|--|-----------------|
| The ANTS guarantee the uniqueness of the names of CA which reference it as part of the standard 2D-DOC. The combination of the country, the name of the certificate and the identity of the entity (name and ID) uniquely identifies the issued seal certificates. | |

| | |
|---------------------------------|---------------------------------------|
| CERTIGNA ENTITY CA | <i>Seal for mails/docs/timestamps</i> |
| CERTIGNA ENTITY CODE SIGNING CA | <i>Seal for code signing</i> |

The combination of the country of the entity and the identity of seal creation service uniquely identifies the certificate holder. The “serialNumber” field attribute also ensures the uniqueness of the DN. Throughout the lifetime of the CA, the name of the seal creation service attached to an entity cannot be assigned to another entity.

The “serialNumber” attribute is made up from a unique random number generated by the CA and begin with one or more letters which indicates certificate’s usage(s) and its storage mode:

- “T” for « Seal for timestamping token »,
- “TT” for « Seal for timestamping token » on hardware device,
- “S” for « Seal for documents/e-mails »,
- “ST” for « Seal for documents/e-mails » on hardware device;
- “C” for « Seal for code »,
- “CT” for « Seal for code » on hardware device.

| | |
|-------------|---------------------------|
| SERVICES CA | <i>Web authentication</i> |
| WILD CA | <i>Web authentication</i> |

The combination of the country, the entity and the FQDN uniquely identifies the certificate holder. Throughout the lifetime of the CA, the name of the server attached to an entity cannot be assigned to another entity.

EN 319 411-1 OVCP

The “serialNumber” attribute, unique value assigned to each certificate issued by the CA and present in the DN, also ensures the uniqueness of the DN. This field is made up from a unique random number generated by the CA and begin with a letter which indicates certificate’s usage(s) and its storage mode:

- “C” for « Client authentication »,
- “S” for « Server authentication ».

EN 319 411-2 QCP-w

The “serialNumber” attribute is constituted with the entity’s registration number.

3.1.5.3 Natural Person Certificate

| | |
|---------------------------|--|
| CERTIGNA IDENTITY CA | <i>Authentication/signature/encipherment</i> |
| CERTIGNA IDENTITY PLUS CA | <i>Authentication/signature</i> |

The combination of the country, the name and the email address of the Certificate Subject uniquely identifies the Certificate Subject. The “serialNumber” attribute, unique value assigned to each certificate issued by the CA and present in the DN, also ensures the uniqueness of the DN. This field is made up from a unique random number generated by the CA and begin with a letter which indicates certificate’s usage(s):

- “I” for “Authentication” and “Signature”,
- “A” for “Authentication” only,
- “S” for “Signature” only,
- “C” for “Encipherment” only.

3.1.6 Recognition, Authentication, and Role of Trademarks

The CA is responsible for the uniqueness of the names of legal or natural person used in its certificates and the resolution of disputes over the demand for use of a name. This commitment of responsibility rests on the assured level of control when processing license applications. The CA may possibly check the membership of the trademark with the INPI.

3.2 Initial identity validation

Registering a CM or Subject can be done either directly from the RA (RA or DRA) or via a Certification Agent of the entity. In the latter case, the Certification Agent must first be registered with the RA.

During the certificate request, the email address of the CM or Subject is verified through sending multiple emails that allow the CM or Subject to access to his/her CERTIGNA or DRA customer account and certain activation data enabling him/her to recover and to use its certificate.

The RA verifies that the entity has an operational existence by checking the QIIS or the QTIS in order to make sure that the entity appears there.

The certificate request can be communicated to the RA or the DRA in paper format signed by hand by the CM or the Subject and the co-signers. The request can also be communicated to the RA or the DRA in electronic format under the following conditions:

EN 319 411-1 NCP+

EN 319 411-2 QCP-n

EN 319 411-2 QCP-n-qscd

EN 319 411-2 QCP-l

EN 319 411-2 QCP-l-qscd

EN 319 411-2 QCP-w

In electronic format if signed by each signatory using a qualified electronic signature certificate within the meaning of the eIDAS Regulation. The certificate must be valid when registering by the RA.

RGS ***

In electronic format if signed using an electronic signature process that meets at least the requirements of the RGS level ***. The signature and associated certificate must be valid upon registration by the RA.

RGS **

In electronic format if signed using an electronic signature process that meets at least the requirements of the RGS level **. The signature and associated certificate must be valid upon registration by the RA.

EN 319 411-1 LCP

EN 319 411-1 OVCP

RGS *

In electronic format if possible signed using an electronic signature process that meets at least the requirements of the RGS level *.

3.2.1 Method to Prove Possession of Private Key

CA ensures the detention of the private key by the CM or the Subject before certifying the public key. For this, the RA, the CM or the Subject generates the key pair in a device compliant with the requirements of the chapter 11, and provides to the CA the proof of possession of the private key by signing his certificate request (Certificate signing request with the PKCS # 10 format).

The RA verifies beforehand the validity of the signature during the processing of the certificate requests received. This treatment is automated and therefore requires no human intervention. Any signature error, due in particular to the non-possession of the private key associated with the public key to be certified, is systematically detected and causes the rejection of the request.

| | |
|---|---------------------------------------|
| CERTIGNA ENTITY CA | <i>Seal for mails/docs/timestamps</i> |
| CERTIGNA ENTITY CODE SIGNING CA | <i>Seal for code signing</i> |
| FR03 | <i>Seal for 2D-DOC</i> |
| QCP-I-qscd RGS ** | |
| Evidence that the device complies with the requirements of Chapter 11 (At a minimum, the device's purchase invoice and the screen shots / prints of the hardware and software features of the device and the associated serial number) must be provided, when the application, by the Certificate Manager to attest to the possession of the device. The CA reserves the right to refuse the certificate application if it is found that this device does not meet these requirements. | |
| The CA records the characteristics of the device, whether or not it is provided by the CA and checks monthly until the end of the validity period of the entity's certificate, maintaining the certification status of the device. In case of loss of the certification of the device, the CA will ask the Certificate Manager for proof that the key pair is stored in a device that meets the requirements of Chapter 11. The Certificate Manager undertakes to provide these evidences (E.g: Invoice of purchase of a new device certified QSCD, Minutes of ceremony of the keys in case of key migration, Minutes of update of the device for the maintenance of the certification, etc.) within a deadline 15 days following the request. In the event that no evidence is provided or that the latter do not make it possible to determine if the storage conditions of the key pair, and transfer in another device if any, meet the requirements of the CP, the CA gives himself the right to revoke the certificate. | |
| QCP-I-qscd | |
| In the event that the device is managed by a Trust Service Provider other than CERTIGNA and the entity which is subject of the certificate,, the Certificate Manager must provide at the certificate request, the evidences (E.g.: Certificate of qualification as a Certification Operator, certificate of qualification in as PSCE for the QCP-I-qscd level and associated signed contractual agreement between the entity designated in the certificate and that service provider, etc.) certifying that the provider is able to meet the requirements of the CP and in particular Chapter 11. | |

3.2.2 Authentication of Organization Identity

3.2.2.1 Identity

3.2.2.1.1 Verification of entity's legal and operational existence and identity

Verification that the entity has the exclusive legal use of the name specified in the "Organization" field of the certificate is performed by reconciliation with information retrieved from official database (QIIS, QGIS, QTIS) confirming the existence of the entity. These databases contain reliable information provided by a trusted source that registered the entity. The information that is checked during the authentication of the entity's identity includes the SIREN or SIRET number, the VAT return number, the D-U-N-S number (Dun & Bradstreet). The controls applied are as follows:

For private organizations, checks are carried out in the QIIS or the QGIS (ex: directory of companies of France, registries of commercial courts, Dun & Bradstreet) in order to check:

- Legal existence: the RA checks that the entity's legal existence is established by the political subdivision in which the entity operates and is not designated on the records of the Incorporating or Registration Agency by labels such as "inactive", "invalid," "not current," or the equivalent;
- The name of the entity: the RA checks that the formal name as registered with the incorporating or registration agency of the entity's jurisdiction corresponds to that specified in the certificate request;
- The registration number: a registration number assigned by the incorporating or registration agency must be provided by the entity. In case of non-attribution of registration number by this organization the date of registration must be provided.
- The legal representative: the RA must obtain the name and address of a legal representative designated by the incorporating or registration agency of its jurisdiction.

For public entities, checks are carried out in the QIIS or the QGIS in order to verify:

- Legal existence: the RA checks that the entity is a legally recognized Government Entity, in existence in the political subdivision in which such Government Entity operates;
- The name of the entity: the RA checks that the entity's formal legal name as recognized by the Registration Agency in the entity's Jurisdiction of Registration matches the entity's name in the certificate request;
- The registration number: Attempt to obtain the specific unique Registration Number assigned to the entity by the registration agency in its Jurisdiction of registration. Where the registration agency does not assign a registration number, the CA integrates in the DN of the certificate that the entity is a public entity.

For business entities, checks are carried out in the QIIS or the QGIS in order to check:

- Legal existence: the RA checks that the applicant is engaged in business under the name submitted in the request.
- The name of the entity: the RA checks that the formal name as registered with the incorporating or registration agency of the entity's jurisdiction corresponds to that specified in the certificate request;
- The registration number: a registration number assigned by the incorporating or registration agency must be provided by the entity. In case of non-attribution of registration number by this organization the date of registration must be provided.
- The legal representative: the RA verifies the identity of the identified Principal Individual.

For non-commercial entities, checks are carried out in the QIIS or the QGIS in order to check:

- Legal existence: the RA checks that the entity is a legally recognized International Organization Entity.
- The name of the entity: the RA checks that the entity's formal legal name as recognized by the Registration Agency in the entity's Jurisdiction of Registration matches the entity's name in the certificate request;
- The registration number: the RA must obtain the Applicant's date of formation, or the identifier for the legislative act that created the International Organization Entity. In circumstances where this information is not available, the CA integrates in the DN of the certificate that the entity is an international organization entity.

3.2.2.1.2 Verification of entity's operational existence

The RA checks that the physical address provided by the Applicant is an address where the Applicant or a Parent/Subsidiary Company conducts business operations (not, for example, a mail drop or P.O. box, or 'care of' (C/O) address), and is the address of the Applicant's Place of Business:

- For an entity whose place of business is in the same country as the entity's Jurisdiction of Incorporation or Registration, a verification of the presence of the address provided in the QGIS, the QIIS or the QTIS is carried out by the RA.
- For an entity whose place of business is not in the country of Incorporation or Registration, the RA rely on a verified professional letter that indicates the address of the Applicant's Place of Business and that business operations are conducted there.

3.2.2.1.3 Verification of entity's operational existence

The RA checks that the entity's operational existence verifying that it's listed in either a current QIIS or QTIS.

3.2.2.1.4 Verification of entity's communication means

When requesting a certificate, the applicant's email address is checked by sending an activation link.

| | |
|--|---------------------------|
| SERVICES CA | <i>Web authentication</i> |
| WILD CA | <i>Web authentication</i> |
| EN 319 411-2 QCP-w | |
| Check is made that the telephone number provided in the application is consistent with the telephone number available through the public telephone directories and the entity's official website, if applicable. A call is made by the RA to verify the entity's telephone number and the ability to reach the caller via that channel and to have his/her confirmation about the legitimacy of the certificate request. | |

3.2.2.1.5 Verification of PSD2 Authorization Number

| | |
|--|-------------------------------------|
| CERTIGNA ENTITY CA | <i>Cachet mails/docs/horodatage</i> |
| SERVICES CA | <i>Authentification web</i> |
| TS 119 495 DSP2 | |
| For PSD2 certificates, the identification of the PSP by the RA operator is achieved also with the authorization number of the PSP available in the NCA public register. In case there is no PSD2 Authorization Number, other form of registration number recognized by the NCA | |

can be used in place of the PSD2 Authorization Number. If necessary, to ensure uniqueness, the authorization or registration number can contain a prefix including the type of the institution.

The information on the PSP and the NCA to be placed in the certificate is verified by the RA by checking the official information published on one of the following registers:

- the register of the national NCA in connection with the PSP. For example, in France, the NCA which is the APCR provides a Register of Financial Agents (REGAFI) to verify this information at the following address: <https://www.regafi.fr>;
- the register of the EBA, named "Payment Institutions Register" accessible at the following address <https://euclid.eba.europa.eu/register/pir/disclaimer>.

3.2.2.2 DBA/Tradename

If the Subject Identity Information is to include a DBA or tradename, the CA SHALL verify the Applicant's right to use the DBA/tradename using at least one of the following:

- Documentation provided by, or communication with, a government agency in the jurisdiction of the Applicant's legal creation, existence, or recognition;
- A Reliable Data Source;
- Communication with a government agency responsible for the management of such DBAs or tradenames;
- An Attestation Letter accompanied by documentary support; or
- A utility bill, bank statement, credit card statement, government-issued tax document, or other form of identification that the CA determines to be reliable.

3.2.2.3 Verification of Country

| | |
|---|--------------------|
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |
| <p>The CA verifies the country associated with the Subject using one of the following:</p> <ul style="list-style-type: none">- the IP Address range assignment by country for either the web site's IP address, as indicated by the DNS record for the web site or the Applicant's IP address;- the ccTLD of the requested Domain Name;- information provided by the Domain Name Registrar; or- a method identified in Section 3.2.2.1. <p>The CA implements a process to screen proxy servers in order to prevent reliance upon IP addresses assigned in countries other than where the Applicant is located.</p> | |

3.2.2.4 Validation of Domain Authorization or Control

| | |
|---|--------------------|
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |
| <p>For each FQDN listed in the certificate, the RA checks that, at the time the certificate is issued, either the entity is the owner of the domain name, or it has obtained authorization to use the FQDN using the procedure described in chapter 4.2.1. In addition to the validation of the authorization on the domain name, one of the checks below is implemented for each FQDN to ensure that it is controlled by the CM and to confirm the legitimacy of the certificate request. This verification is carried out before the issuance of each certificate, even when it is renewal.</p> | |

3.2.2.4.1 Validating the Applicant as a Domain Contact

No stipulation.

3.2.2.4.2 Email to Domain Contact

| | |
|--|--------------------|
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |
| <p>Confirming the Applicant's control over the FQDN by sending a Random Value via email and then receiving a confirming response utilizing the Random Value. The Random Value is sent by CERTIGNA to an email address identified as a Domain Contact.</p> <p>Each email may confirm control of multiple Authorization Domain Names. The CA MAY send the email, fax, SMS, or postal mail identified under this section to more than one recipient provided that every recipient is identified by the Domain Name Registrar as representing the Domain Name Registrant for every FQDN being verified using the email. The Random Value is unique in each email and remains valid no more than 30 days from its creation. The CA may resend the email in its entirety, including re-use of the Random Value, provided that the communication's entire contents and recipient(s) remain unchanged.</p> <p>Note: Once the FQDN has been validated using this method, the CA may also issue Certificates for other FQDNs that end with all the labels of the validated FQDN. This method is suitable for validating Wildcard Domain Names.</p> | |

3.2.2.4.3 Phone Contact with Domain Contact

No stipulation.

3.2.2.4.4 Constructed Email to Domain Contact

| | |
|--|--------------------|
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |
| <p>An email is sent by CERTIGNA to one of the addresses below created by using 'admin', 'administrator', 'webmaster', 'hostmaster', or 'postmaster' as the local part, followed by the atsign ("@"), followed by the Domain Name. This email provides a link with a random value and allows access to a page where the applicant will confirm that he controls this domain name and that the certificate request is legitimate.</p> <p>The random value is unique for each FQDN and remains valid no more than 30 days from its creation. The CA may resend the email in its entirety, including re-use of the Random Value, provided that the communication's entire contents and recipient(s) remain unchanged.</p> <p>If the constructed email is similar for multiple requested FQDNs (e.g. case of subdomains), then only one mail is sent to the domain contact containing associated links to confirm the control of each FQDN.</p> | |

3.2.2.4.5 Domain Authorization Document

No stipulation.

3.2.2.4.6 Agreed-Upon Change to Website

| SERVICES CA | Web authentication |
|---|--------------------|
| <p>A random value is displayed to the Subscriber when customizing his certificate request, and must be set by the Subscriber in a text file in the "/.wellknown/pki-validation" directory of the website. An automatic control by CERTIGNA via port 80 (HTTP) or port 443 (HTTPS) makes it possible to check the presence on the website of the file and to check the random value it contains. The random value in the file does not appear in the request used for the check.</p> <p>The random value is unique for each FQDN and remains valid no more than 30 days from its creation. A new random value is available for each FQDN beyond the 30 days invalidating the value provided previously.</p> <p>If multiple FQDNs are concerned by the same request, several files will be created, each file containing a value for an FQDN. The Subscriber must place all files in the directory to allow the control of each FQDN.</p> | |

This method is not allowed for "Wildcard" certificates.

3.2.2.4.7 DNS Change

| SERVICES CA | Web authentication |
|---|--------------------|
| WILD CA | Web authentication |
| <p>A DNS CNAME record is displayed to the Subscriber when customizing his certificate request. This record must be set to the website DNS configuration and consists of the domain name that is prefixed with a label with an underscore character ("_") and of a random value.</p> <p>The random value is unique for each FQDN and remains valid no more than 30 days from its creation. A new random value is available for each FQDN beyond the 30 days invalidating the value provided previously.</p> <p>If multiple FQDNs are concerned by the same request, several records will be created. The Subscriber must add all the records to the website DNS configuration to allow the control of each FQDN.</p> | |

3.2.2.4.8 IP Address

No stipulation.

3.2.2.4.9 Test Certificate

No stipulation.

3.2.2.4.10 TLS Using a Random Number

No stipulation.

3.2.2.4.11 Any Other Method

No stipulation.

3.2.2.4.12 Validating Applicant as a Domain Contact

No stipulation.

3.2.2.4.13 Email to DNS CAA Contact

No stipulation.

3.2.2.4.14 Email to DNS TXT Contact

No stipulation.

3.2.2.4.15 Phone Contact with Domain Contact

No stipulation.

3.2.2.4.16 Phone Contact with DNS TXT Record Phone Contact

No stipulation.

3.2.2.4.17 Phone Contact with DNS CAA Phone Contact

No stipulation.

3.2.2.4.18 Agreed-Upon Change to Website v2

No stipulation.

3.2.2.4.19 Agreed-Upon Change to Website – ACME

No stipulation.

3.2.2.5 Authentication for an IP Address

No stipulation.

3.2.2.6 Wildcard Domain Validation

| WILD CA | Authentication web |
|--|--------------------|
| Before issuing a certificate with a wildcard character (*) in a CN or subjectAltName of type DNS-ID, the CA establishes and follows a documented procedure that determines if the wildcard character occurs in the first label position to the left of a “registry-controlled” label or “public suffix” (e.g. “*.com”, “*.co.uk”). | |
| If a wildcard would fall within the label immediately to the left of a registry-controlled1 or public suffix, CAs refuses issuance unless the applicant proves his/her rightful control of the | |

entire Domain Namespace. (e.g. CAs MUST NOT issue “*.co.uk” or “*.local”, but may issue “*.example.com” to Example Co.).

3.2.2.7 Data Source Accuracy

| | |
|---|--------------------|
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |
| Prior to using any data source as a Reliable Data Source, the CA evaluates the source for its reliability, accuracy, and resistance to alteration or falsification. | |
| The CA consider the following during its evaluation: | |
| <ul style="list-style-type: none">- The age of the information provided,- The frequency of updates to the information source,- The data provider and purpose of the data collection,- The public accessibility of the data availability, and- The relative difficulty in falsifying or altering the data. | |

3.2.2.7.1 Denied Lists and Other Legal Blacklists

| | |
|---|--------------------|
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |
| EN 319 411-2 QCP-w | |
| The RA verifies whether one of the signers (Certificate Manager, Legal Representative) or the entity: | |
| <ul style="list-style-type: none">- Is identified on any government denied list, list of prohibited persons, or other list that prohibits doing business with such organization or person under the laws of the country of the CA's jurisdiction(s) of operation; or- Has its Jurisdiction of Incorporation, Registration, or Place of Business in any country with which the laws of the CA's jurisdiction prohibit doing business. | |
| The RA rejects systematically the request if one of the signers or the entity is present in these lists. | |

3.2.2.7.2 Parent/Subsidiary/Affiliate Relationship

| | |
|---|--------------------|
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |
| EN 319 411-2 QCP-w | |
| The RA verifies the entity's relationship to the Parent, Subsidiary, or Affiliate when used in the request. The relationship between the entity and the Parent, Subsidiary, or Affiliate is identified in a QIIS or QGIS. | |

3.2.2.7.3 Final Cross-Correlation and Due Diligence

| | |
|--|--------------------|
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |
| EN 319 411-2 QCP-w | |
| <p>A cross-correlation is performed by the RA for Qualified/EV certificate applications. The results of these verification process and procedures are performed by an initial RA operator, are then controlled by a RA officer who analyses the integrality of the application by searching for discrepancies or other details requiring further examination.</p> <p>If necessary, the RA officer requests additional information or clarification from stakeholders, consults with QIIS, and / or other sources of information to resolve the anomalies encountered. If necessary, the operator and the Officer shall consult each other to decide, in the final analysis, on the validity of the application.</p> <p>The CA refrains from issuing a Qualified/EV certificate until the information collected for the application file is complete, so that the certificate does not transmit incorrect information that the CA would know, or reasonable diligence would uncover. If the supporting documents or supplementary information are not received within one month, the RA shall reject the application and notify the entity.</p> <p>The documents constituting the application must be provided exclusively in French or English. If the subscriber is unable to provide the documentation in either of these languages, the authority may, if necessary, translate the relevant documents and bear the incurred cost to the subscriber.</p> | |

3.2.2.8 CAA Records

| | |
|--|--------------------|
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |
| <p>In compliance with the RFC 6844, controls are performed by the Registration Authority for every domain name present in "subjectAltName" extension of the certificate to issue and for which the "DNS CAA" option is enabled in associated DNS record. These controls allow to check that the CA is part of the authorities authorized to issue a certificate for these domains.</p> <p>The following cases do not allow the CA to authorize the issuance of the certificate:</p> <ul style="list-style-type: none">- The CAA DNS field is present, it contains an "issue" or "issuewild" tag and does not list Certigna as an authorized Certificate Authority;- The CAA DNS field is present, it is designated as "critical" and the tag used is not supported by the CA (it is not an "issue" or "issuewild" tag);- The zone is validly DNSSEC-signed and our DNS query times out. <p>If any of these cases are encountered, the certificate request is automatically blocked, and the applicant is notified by email of the need to update the associated DNS records</p> <p>To add CERTIGNA to DNS CAA records, several syntaxes are available depending on the server used:</p> <ul style="list-style-type: none">- example.com. IN CAA 0 issue "certigna.fr"- example.com. IN TYPE257 \# 18 000569737375656365727469676e612e6672- 0 issue "certigna.fr" | |

3.2.3 Validation of an individual's identity

Verification of the identity targets:

- A Certificate Manager for a legal person;
- A subject for a natural person;
- The legal representative of the organization attached to the certificate, if applicable;
- The Certification Agent associated with the organization, if applicable.

To authenticate an individual's identity, verification of a photocopy of an individual's identification is required. It could be an official identity document valid (National Identity Card, passport or residence permit) or a professional card issued by an administrative authority (if that authority maintaining a register of identities ensuring the link between the agent and the professional card) with an ID photo or a reference to the administrative file of the agent. The existence of the alleged identity is known to an authoritative source and the CA must be able to assume that the person is who he claims to be.

RA and DRA operators are made aware of the frauds that may occur on the issue of documents or copies of official documents (falsified documents). Particular attention is given to the validity checks of the pieces supplied (date of validity of identity documents, date of requests, etc.). These aspects are developed during the initial training planned for the RA operators and detailed in the training program defined in the document "[Staff monitoring](#)".

Periodic checks take into account sampling checks of processed files to ensure compliance with procedures. These controls are conducted by people in the roles of Controllers or Security Officers.

3.2.3.1 CA Certificate

| CERTIGNA ROOT CA and Intermediate CAs | Root and intermediate CAs |
|---|---------------------------|
| The registration of a new CA certificate request is achieved through the RA by the CA responsible. This request is formalized through a script during the key ceremony used for certificate generation. | |

3.2.3.2 Legal Person Certificate

| | |
|--|--------------------------------|
| CERTIGNA ENTITY CA | Seal for mails/docs/timestamps |
| CERTIGNA ENTITY CODE SIGNING CA | Seal for code signing |
| FR03 | Seal for 2D-DOC |
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |
| Registration of a service or server to which a certificate should be issued is performed via the registration of the corresponding Certificate Manager. A Certificate Manager may have to change valid corresponding server certificate. In this case, any new Certificate Manager shall also be subject to a registration procedure. | |
| The Certificate Manager is either the legal representative of the entity or a natural person formally designated by the legal representative. The registration of a Certificate Manager, and the corresponding server can be done either directly from the RA, a DRA or via a Certification Agent of the entity. In this last case, the Certification Agent must have been registered by the RA. | |

The registration of the future Certificate Manager requires the "legal person" identity verification (the entity attached to the future Certificate Manager), and the "natural person" identity verification (the future Certificate Manager), his/her authorization to be a CM for the concerned service or server and the concerned entity.

The Certificate Manager is informed that personal identity information can be used as authentication data during a possible revocation request.

3.2.3.2.1 Certificate Manager Registration

| | |
|---------------------------------|--------------------------------|
| CERTIGNA ENTITY CA | Seal for mails/docs/timestamps |
| CERTIGNA ENTITY CODE SIGNING CA | Seal for code signing |
| FR03 | Seal for 2D-DOC |
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |

The certificate request files shall be completed with the forms available on CERTIGNA website or DRA website. The files sent to RA shall include the following elements:

| | |
|--------------------------|---|
| Certificate request form | |
| Subject | Designation of a legal representative of the entity and his/her information |
| | Designation of the future CM and his/her information |
| | Designation of the identity of the entity attached to the service or server |
| | Designation of applicable TCSU |
| Date | Signed less than 3 months ago |
| Signature | Signed by a legal representative to mandate the future CM |
| | Signed by the future CM to accept this role and the TCSU |

| | |
|---|--|
| Official identification document of the Certificate Manager | |
| Subject | A photocopy of a valid CM identification element, recognized by the Member State in which the request for a certificate is filed |
| Date | Piece valid at the time of registration |

| | |
|---|--|
| Official identification document of the legal representative or the Certification Agent | |
| Subject | A photocopy of a valid identification element of the legal representative or the Certification Agent, recognized by the Member State in which the request for a certificate is filed |
| Date | Piece valid at the time of registration |

| | |
|---|--|
| Document attesting to the quality of legal representative | |
| Subject | For a company, a document attesting to the quality of legal representative nationally recognized. <i>e.g. a copy of the articles of the company, valid, bearing the signature of its representatives.</i> |
| | For an administrative authority, one piece, support of delegation or sub-delegation of responsible authority of the administrative structure nationally recognized. |
| Date | Piece valid at the time of registration |

| | |
|--|---|
| Document bearing the SIREN number of the company | |
| Subject | For a company, any document, valid at the time of registration, bearing the SIREN number of the company (<i>KBIS extract or Certificate of Identification at the National Directory of Companies and of their Establishments</i>) or, failing that, another valid document certifying the unique identification of the company to be included in the certificate. |
| Date | Piece valid at the time of registration |

TS 119 495 DSP2

For a PSD2 certificate, a document listing the characteristics of the PSP and referencing it in the NCA or EBA register if applicable.

EN 319 411-2 QCP-I

EN 319 411-2 QCP-I-qscd

EN 319 411-1 NCP+

The authentication of the CM by the RA is carried out via one of the following means:

- Face-to-face authentication with the CM with presentation of valid ID at the face-to-face (National Identity Card, Passport or Residence Card).
- Remote authentication using a means of electronic identification qualified at substantial or high level within the meaning of the eIDAS Regulation.
- Authentication using a nationally recognized identification method that provides equivalent assurance in terms of reliability to face to face authentication. The equivalent warranty is confirmed by a conformity assessment body.

Authentication of the CM using a qualified electronic signature certificate as defined in the eIDAS Rules.

EN 319 411-2 QCP-w

Authentication of the Certificate Manager by the RA (RA or DRA operator) is performed with a face-to-face during which the following elements are controlled:

- A valid official document of the CM with an ID photo (national identity card, passport or residence permit).
- At least two secondary documentary evidences that include the name of the CM, one of which is from a financial institution:
 - o A major credit card indicating an expiration date and it has not expired;
 - o A debit card indicating an expiration date and it has not expired;
 - o A bank statement from a regulated financial institution that is less than six months old;
 - o Recent original utility bills (telecom bill for a fixed line or an EDF / GDF bill) indicating the name and the fixed address;
 - o A copy of a statement for payment of a lease, provided that the statement is dated within the past six months;
 - o A local authority tax bill for the current year (property tax, residential tax);
 - o A certified copy of a birth certificate.

EN 319 411-1 LCP

EN 319 411-1 OVCP

Authentication of the Certificate Manager by the RA (RA or DRA operator) is performed by sending the files by postal mail or in a dematerialized form (scanned files which are sent by email).

RGS **

Authentication of the Certificate Manager by the RA is performed during a physical face-to-face or in a dematerialized form at the condition that the request is signed by the Certificate Manager with an electronic signature process compliant with the minimum requirements of the RGS level **, the signature is verified and valid at the time of registration.

RGS *

Authentication of the Certificate Manager by the RA (RA or DRA operator) is performed by sending the files by postal mail or in a dematerialized form (scanned files which are sent by email).

3.2.3.3 Natural Person Certificate

3.2.3.3.1 Subject registration [Individual]

| | |
|--|---|
| CERTIGNA IDENTITY CA | Authentication/signature/encipherment |
| CERTIGNA IDENTITY PLUS CA | Authentication/signature |
| The certificate request files shall be completed with the forms available on CERTIGNA website or DRA website. The files sent to RA shall include the following elements: | |
| Certificate request form | |
| Subject | Designation of the future Subject and his/her contact information |
| | Designation of applicable TCSU |
| Date | Signed less than 3 months ago |
| Signature | Signed by the future Subject to accept this role and the TCSU |
| Official identification document of the Subject | |
| Subject | A photocopy of an identity official document valid of the Subject with an ID photo. <i>E.g.: national identity card, passport or residence permit</i> |
| Date | Piece valid at the time of registration |
| EN 319 411-1 NCP + EN 319 411-2 QCP-n EN 319 411-2 QCP-n-qscd | |
| The authentication of the Subject by the RA is carried out via one of the following means: | |
| <ul style="list-style-type: none">- Face-to-face authentication with the Subject with presentation of valid ID at the face-to-face (National Identity Card, Passport or Residence Card).- Remote authentication using a means of electronic identification qualified at substantial or high level within the meaning of the eIDAS Regulation.- Authentication using a nationally recognized identification method that provides equivalent assurance in terms of reliability to face to face authentication. The equivalent warranty is confirmed by a conformity assessment body.- Authentication of the Subject using a qualified electronic signature certificate as defined in the eIDAS Rules. | |
| RGS *** | |
| Identification of the Certificate Subject is performed by the RA during a physical face-to-face | |
| RGS ** | |
| Authentication of the Subject by the RA is performed during a physical face-to-face or in a dematerialized form at the condition that the request is signed by the Subject with an electronic signature process compliant with the requirements of RGS level *** minimum, the signature is verified and valid at the time of registration. | |
| RGS * | |
| Authentication of the Subject by the RA (RA or DRA operator) is performed by sending the files by postal mail or in a dematerialized form (scanned files which are sent by email). | |

3.2.3.3.2 Subject registration [Company] [Administrative Authority]

| | |
|---------------------------|---------------------------------------|
| CERTIGNA IDENTITY CA | Authentication/signature/encipherment |
| CERTIGNA IDENTITY PLUS CA | Authentication/signature |

The certificate request files shall be completed with the forms available on CERTIGNA website or DRA website. The files sent to RA shall include the following elements:

| | |
|--------------------------|---|
| Certificate request form | |
| Subject | Designation of a legal representative of the entity and his/her information |
| | Designation of the future Subject and his/her information |
| | Designation of the identity of entity attached to the service or server |
| | Designation of applicable TCSU |
| Date | Signed less than 3 months ago |
| Signature | Signed by a legal representative to mandate the future Subject Signed by the future Subject to accept this role and the TCSU |

| | |
|---|--|
| Official identification document of the Subject | |
| Subject | A photocopy of a valid identification element of the Subject, recognized by the Member State in which the request for a certificate is filed |
| Date | Piece valid at the time of registration |

| | |
|---|--|
| Official identification document of the legal representative or the Certification Agent | |
| Subject | A photocopy of a valid identification element of the legal representative or the Certification Agent, recognized by the Member State in which the request for a certificate is filed |
| Date | Piece valid at the time of registration |

| | |
|---|--|
| Document attesting to the quality of legal representative | |
| Subject | For a company , a document attesting to the quality of legal representative nationally recognized. <i>e.g. a copy of the articles of the company, valid, bearing the signature of its representatives.</i> |
| | For an administrative authority , one piece, support of delegation or sub-delegation of responsible authority of the administrative structure nationally recognized. |
| Date | Piece valid at the time of registration |

| | |
|--|---|
| Document bearing the SIREN number of the company | |
| Subject | For a company , any document, valid at the time of registration, bearing the SIREN number of the company (<i>KBIS extract or Certificate of Identification at the National Directory of Companies and of their Establishments</i>) or, failing that, another valid document certifying the unique identification of the company to be included in the certificate. |
| Date | Piece valid at the time of registration |

EN 319 411-1 NCP +
EN 319 411-2 QCP-n
EN 319 411-2 QCP-n-qscd

The authentication of the Subject by the RA is carried out via one of the following means:

- Face-to-face authentication with the Subject with presentation of valid ID at the face-to-face (National Identity Card, Passport or Residence Card).
- Remote authentication using a means of electronic identification qualified at substantial or high level within the meaning of the eIDAS Regulation.
- Authentication using a nationally recognized identification method that provides equivalent assurance in terms of reliability to face to face authentication. The equivalent warranty is confirmed by a conformity assessment body.
- Authentication of the Subject using a qualified electronic signature certificate as defined in the eIDAS Rules.

RGS ***

Identification of the Certificate Subject is performed by the RA during a physical face-to-face

RGS **

Authentication of the Subject by the RA is performed during a physical face-to-face or in a dematerialized form at the condition that the request is signed by the Subject with an electronic signature process complies with the requirements of RGS level *** minimum, the signature is verified and valid at the time of registration.

RGS *

Authentication of the Subject by the RA (RA or DRA operator) is performed by sending the files by postal mail or in a dematerialized form (scanned files which are sent by email).

3.2.3.4 Registration of a Certification Agent

| | |
|---------------------------------|---------------------------------------|
| CERTIGNA ENTITY CA | Seal for mails/docs/timestamps |
| CERTIGNA ENTITY CODE SIGNING CA | Seal for code signing |
| FR03 | Seal for 2D-DOC |
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |
| CERTIGNA IDENTITY CA | Authentication/signature/encipherment |
| CERTIGNA IDENTITY PLUS CA | Authentication/signature |

The Certification Agent must register with the RA to substitute for RA in the processing of registration of certificate requests. The registration of a Certification Agent requires the verification of the "legal person" identity of the entity for which the Certification Agent is attached, the verification of the "natural person" identity of the future Certification Agent, and the relation between the future Certification Agent and this entity. The certificate request files shall be completed with the forms available on CERTIGNA website or DRA website. The files sent to RA shall include the following elements:

Certification Agent registration form

| | |
|-----------|---|
| Subject | Designation of a legal representative of the entity and his/her information |
| | Designation of the future Certification Agent and his/her information |
| | Designation of applicable Terms and conditions |
| Date | Signed less than 3 months ago |
| Signature | Signed by a legal representative to mandate the Certification Agent |
| | Signed by the future Certification Agent to accept this role and the TCSU |

Letter of commitment from the Certification Agent

| | |
|-----------|--|
| Subject | Designation of the future Certification Agent and its information |
| | Designation of the role and responsibilities of Certification Agent with: - Conduct impartial and scrupulous identity checks of the future Subjects as defined in the CP; - Notify the RA on leaving the entity. |
| | |
| Date | Signed less than 3 months ago |
| Signature | Signed by the future Certification Agent to accept these responsibilities |

Official identification document of the Certification Agent

| | |
|---------|--|
| Subject | A photocopy of a valid identification element of the Certification Agent, recognized by the Member State in which the request for a certificate is filed |
| Date | Piece valid at the time of registration |

Document attesting to the quality of legal representative

| | |
|---------|---|
| Subject | [Company] A document attesting to the quality of legal representative known nationally. eg a copy of the articles of the company, valid, bearing the signature of its representatives. |
| | [Administrative authority] One piece, support of delegation or sub-delegation of responsible authority of the administrative structure known nationally. |
| Date | Piece valid at the time of registration |

EN 319 411-1 NCP +
EN 319 411-2 QCP-I
EN 319 411-2 QCP-I-qscd
EN 319 411-2 QCP-w

The authentication of the Certification Agent by the RA is carried out via one of the following means:

- Face-to-face authentication with the Certification Agent with presentation of valid ID at the face-to-face (National Identity Card, Passport or Residence Card).
- Remote authentication using a means of electronic identification qualified at substantial or high level within the meaning of the eIDAS Regulation.
- Authentication using a nationally recognized identification method that provides equivalent assurance in terms of reliability to face to face authentication. The equivalent warranty is confirmed by a conformity assessment body.

Authentication of the Certification Agent using a qualified electronic signature certificate as defined in the eIDAS Rules.

RGS **

Authentication of the Certification Agent by the RA is performed during a physical face-to-face or in a dematerialized form at the condition that the request is signed by the Certification Agent with an electronic signature process complies with the requirements of RGS level *** minimum, the signature is verified and valid at the time of registration.

EN 319 411-1 LCP
EN 319 411-1 OVCP
RGS *

The authentication of the Certification Agent by the RA is carried out by sending the paper file by postal mail accompanied by a photocopy of the identity documents of each of the signatories of the documents in the file (legal representative, Certification Agent).

This authentication can also be done in dematerialized form on condition that the various supporting documents of the file are signed using an electronic signature process in accordance with the requirements of the RGS level * and that the signature is verified and valid at the time of recording. If the Certification Agent is not equipped with a certificate of RGS level * or higher, the files cannot be sent in dematerialized form. In this case, each file will only be validated after receipt of the original documents by postal mail.

3.2.4 Non-verified information

No stipulation.

3.2.5 Validation of Authority

This step is performed simultaneously with the validation of the identity of the legal representative, the CM or the Subject (directly by the RA or the Certification Agent).

3.2.6 Criteria for Interoperation or Certification

The CA disclose all Cross Certificates that identify the CA as the Subject, provided the CA has arranged for or accepted the establishment of the trust relationship (i.e. the Cross Certificate at issue).

3.3 Identification and Authentication for Re-key Requests

3.3.1 Identification and Authentication for Routine Re-key

The CA does not issue a new certificate for previously issued key pair. Renewal involves through the generation of a new key pair and a new certificate request.

3.3.1.1 CA Certificate

Identifying and authenticating a current CA certificate renewal request is the same as the original request.

3.3.1.2 Legal Person Certificate

| | |
|---|---------------------------------------|
| CERTIGNA ENTITY CA | <i>Seal for mails/docs/timestamps</i> |
| CERTIGNA ENTITY CODE SIGNING CA | <i>Seal for code signing</i> |
| FR03 | <i>Seal for 2D-DOC</i> |
| SERVICES CA | <i>Web authentication</i> |
| WILD CA | <i>Web authentication</i> |
| At the first renewal, the CA at a minimum ensures that the information in the initial registration request is still valid and that the certificate to be renewed exists, and is still valid | |
| At the next renewal, the RA identifies the Certificate Manager and the application service or the server according to the same procedure as for the initial registration | |
| EN 319 411-1 OVCP EN 319 411-2 QCP-w | |
| the applicant always has control of the domain via one of the methods used for the initial registration. | |

3.3.1.3 Natural Person Certificate

| | |
|---|--|
| CERTIGNA IDENTITY CA | <i>Authentication/signature/encipherment</i> |
| CERTIGNA IDENTITY PLUS CA | <i>Authentication/signature</i> |
| At the first renewal, the CA at a minimum ensures that the information in the initial registration request is still valid and that the certificate to be renewed exists and is still valid. | |
| At the next renewal, the RA identifies the Subject and the entity if applicable, through the same procedure as for the initial registration | |

3.3.2 Identification and Authentication for Re-key After Revocation

Identification and authentication for re-key after revocation is the same as the original request.

3.4 Identification and validation of a revocation request

3.4.1 CA Certificate

A CA certificate revocation can only be decided by the entity responsible of the CA, or by legal authority through a justice decision.

The revocation of other component certificates is decided by the entity operating the component concerned, which must inform the CA without delay.

3.4.2 Legal or Natural Person Certificate

3.4.2.1 Current request

The certificate revocation request sent by the Certificate Manager, the Subject, the legal representative of the entity, a DRA operator, or if appropriate a Certification Agent can be done by one of the following means:

- Mail: request completed and signed from the form of revocation of a certificate available on the website of CERTIGNA <https://www.certigna.com>. The requester is authenticated by sending its Official identification document with the mail.
- From the customer area of the CERTIGNA website <https://www.certigna.fr> selecting the certificate to be revoked.

The mailing address of the revocation service is available on the website of CERTIGNA <https://www.certigna.fr>

The paper request must include the following:

- The first and last name of the subject or name of the service or the server;
- The email address of the Subject if applicable;
- The reason for the revocation.

If the Certificate Manager or the Subject is not the subscriber:

- The first and last name of the subscriber;
- The quality of the subscriber (legal representative, DRA operator, Certification Agent);
- The subscriber's phone number.

The paper form can also be transmitted electronically. The electronic application can be performed by an authorized person with a certificate of the same level or higher (a DRA operator or if appropriate a Certification Agent). The application will be electronically signed with this certificate of the same level or higher.

The revocation request processing by the RA is detailed in the "[Operational Revocation Request Procedure](#)".

As with certificate applications, periodic audits may consider sample checks of revocation requests processed by the RA to ensure compliance with procedures.

3.4.2.2 Request from a CNA

An authenticated NCA is authorized to request the revocation of the certificate of a PSP present in its registry. This request must be made by email to security@certigna.com by enclosing a request for revocation in French or in English language. This revocation request must be electronically signed using an advanced signature or an advanced seal process based on a qualified certificate as defined in eIDAS regulation and whose organization designated as the subject in the certificate is the NCA.

The certificate revocation request must specify the following information:

- NCA identifier;
- Contact details of the applicant;
- Identifier of the PSP subject of the revocation request;
- Reason for which the certificate must be revoked:
 - o The authorization of the PSP has been revoked;
 - o Any PSP included in the certificate has been revoked.

Upon CNA's request and confirmation by CERTIGNA, the CA will be able to provide a certificate in accordance with its issuance process and to authenticate CNA requests.

One of the following cases may lead the CA to reject the revocation request or to request additional information:

- If the authenticity of the request is not verifiable;
- If the request does not clearly indicate the reason for revocation of the certificate;
- If the reason for the revocation of the certificate is not the responsibility of the requesting CNA.

4 CERTIFICATE REQUIREMENTS

LIFE-CYCLE

OPERATIONAL

4.1 Certificate Application

4.1.1 Who Can Submit a Certificate Application

4.1.1.1 CA Certificate

The certificate request must come from a legal representative of the entity.

4.1.1.2 Legal or Natural Person Certificate

For certificates attached to an organization, the certificate request must come from a legal representative of the entity or from a Certification Agent duly mandated for this entity, with the prior consent of the future Certificate Manager or Subject.

| | |
|---|---------------------------|
| SERVICES CA | <i>Web authentication</i> |
| WILD CA | <i>Web authentication</i> |
| The CA maintains an internal database of all previously revoked Certificates and previously rejected certificate requests due to suspected phishing or other fraudulent usage or concerns. The CA uses this information to identify subsequent suspicious certificate requests. | |

4.1.2 Enrollment Process and Responsibilities

4.1.2.1 CA Certificate

The registration files are established directly by the Certification Authority during the Key ceremony.

4.1.2.2 Legal or Natural Person Certificate

The registration files are established directly by the future CM or the Subject from the evidence provided by his entity if applicable, or by the entity and signed by the CM or the Subject. The files are transmitted directly to the RA if the entity has not implemented the use of Certification Agent. The files are delivered to it otherwise.

When recording of the future CM or Subject, it must provide an email address that allows the RA to contact for any questions regarding registration. The Certification Agent must also provide an email address when registering for allows the RA to contact him on any matter relating to the registration of the CM or the Subject. The certificate application must contain the elements described in section 3.2.3. The email address of the Certificate Manager or the Subject, and where applicable the Certification Agent, is stored in the RA databases. These addresses are used to transmit service messages when processing certificate or revocation requests, or for additional requests made by RA operators processing these requests.

4.2 Certificate Application Processing

4.2.1 Performing Identification and Authentication Functions

4.2.1.1 CA Certificate

The request is validated by all witnesses which participate to the key ceremony comprising one RA administrator.

4.2.1.2 Legal or Natural Person Certificate

The RA does the following operations when processing a certificate request:

- Validation of the service, the server or the Subject's identity;
- Validation of the identity of the entity;
- Validation of the identity of the signatory of the request (CM or Subject, legal representative or Certification Agent);
- Validation of domain control for a server;
- Validation of the files and the consistency of evidence presented;
- Assurance that the future CM or Subject is informed of the applicable requirements to the use of the certificate.

All the operations mentioned above are carried out by the RA, but in the case of a request made via a DRA or a Certification Agent, the latter retransmits the request to the RA after having carried out the following checks:

- Ensure that the future Certificate Manager or the Subject has been informed of the TCSU, in addition to their distribution operated by the CA.
- Check the identity of the CM or the Subject and the original documents attesting to his identity in order to identify and authenticate him/her.
- Check the completeness of the request file.

The RA then ensures that the request corresponds to the mandate of the DRA operator or the Certification Agent. The identity of the future Subject and the legal representative is approved if the supporting documents provided are valid at the date of receipt.

| | |
|--|---------------------------------------|
| CERTIGNA ENTITY CA | <i>Seal for mails/docs/timestamps</i> |
| SERVICES CA | <i>Web authentication</i> |
| TS 119 495 DSP2 | |
| For PSD2 certificates, the CA verifies information from the PSP and the associated NCA (PSP identifier and its roles, identifier and country of the NCA) through information officially provided by NCA on its register or on the register of the EBA. In the case where the associated NCA recommends specific validations to be carried out, these will be carried out by the CA if necessary. | |

| | |
|---|---------------------------|
| SERVICES CA | <i>Web authentication</i> |
| WILD CA | <i>Web authentication</i> |
| In addition to the methods for the validation of the domain control (see 3.2.6), the verification of the FQDN and the entity holding it is achieved using "WHOIS" websites (e.g. AFNIC) and/or the provision of supporting documentation to attest, as far as possible, to the ownership of the domain name. A legal representative of the entity which holds the domain according to these websites and/or supporting documents, must formally designate the | |

entity to which the RC is attached or the RC and its entity in a domain authorization document signed by that representative (request form or specific form provided by the CA).

In compliance with the RFC 6844, controls are performed on CAA record (See chapter 3.2.2.8).

The CA develops, maintains and implements documented procedures that identify and require additional verification activity for High Risk Certificate Requests prior to the Certificate's approval, as reasonably necessary to ensure that such requests are properly verified under these Requirements. In particular, the RA has carried out controls with databases of domain names that are suspected to be used for phishing activities (e.g. APWG, Phishing initiative, etc.) and with CA's internal databases of revoked certificates for compromising reason or request of certificates which are suspected to be used for phishing activities.

4.2.2 Approval or Rejection of Certificate Applications

After processing the request, in case of rejection, the RA notifies the CM or the Subject, if applicable the operator of DRA, or the Certification Agent.

The justification for any refusal is made by the RA specifying the cause:

- The request files are incomplete (missing document);
- One of the documents is invalid (signature date more than 3 months, the date of validity of a document is exceeded, etc.);
- The request does not match with the mandate of the DRA operator or the Certification Agent;

If accepted by the RA, after generation of the certificate by the CA, the RA sends a mail to the RC or the Subject to complete the certificate acceptance and the acquisition of activation data.

| | |
|---|--------------------|
| SERVICES CA | Authentication web |
| WILD CA | Authentication web |
| An automatic process is implemented, when ordering a wildcard TLS/SSL certificate, to verify that the requested domain name is made up as "*.domain.tld". To consolidate this check, TLDs validated by ICANN are everyday automatically retrieved through the list on the https://publicsuffix.org website. | |
| In addition, the verification of the domain name owner performed by the RA will in all cases lead to a rejection of the application as it is impossible to identify the owner of a domain name of type "*.tld". Applications with an invalid TLD or non-domain (E.g. *.co.uk) will therefore be systematically rejected. | |
| CA don't issue certificates containing a new gTLD under consideration by ICANN. Prior to issuing a Certificate containing an Internal Name with a gTLD that ICANN has announced as under consideration to make operational, the CA provides a warning to the applicant that the gTLD may soon become resolvable and that, at that time, the CA will revoke the Certificate unless the applicant promptly registers the domain name. | |
| When a gTLD is delegated by inclusion in the IANA Root Zone Database, the Internal Name | |

becomes a Domain Name, and at such time, a Certificate with such gTLD, which may have complied with these Requirements at the time it was issued, will be in a violation of these Requirements, unless the CA has verified the Subscriber's rights in the Domain Name. The provisions below are intended to prevent such violation from happening.

Within 30 days after ICANN has approved a new gTLD for operation, as evidenced by publication of a contract with the gTLD operator on [www.ICANN.org] the CA compare the new gTLD against the CA's records of valid certificates and ceases issuing Certificates containing a Domain Name that includes the new gTLD until after the CA has first verified the Subscriber's control over or exclusive right to use the Domain Name in accordance with Section 3.2.2.4. Within 120 days after the publication of a contract for a new gTLD is published on [www.icann.org], the CA revokes each Certificate containing a Domain Name that includes the new gTLD unless the Subscriber is either the Domain Name Registrant or can demonstrate control over the Domain Name.

EN 319 411-2 QCP-w

request acceptance by the RA need an action by a RA operator and a Registration officer before creating the certificates.

4.2.3 Time to Process Certificate Applications

4.2.3.1 CA Certificate

As the request for a CA certificate is formally established during the key ceremony, the concerned certificate is generated within hours of the request.

4.2.3.2 Legal or Natural Person Certificate

As from the receipt of the full registration files and electronic request (CSR), the certificate is issued within 30 days.

4.3 Certificate Issuance

4.3.1 CA Actions during Certificate Issuance

4.3.1.1 CA Certificate

Keys pairs of Root CA and intermediate CA are generated during the key ceremony. The operations for generating and signing certificates issued by the root CA are carried out under the same controlled circumstances as the generation of CA key pairs (see section 6.1.1), in the presence of people in authorized trusted roles by CA and as part of "key ceremonies". The CA administrator performs commands to generate and sign certificates by the root CA in the presence of trusted roles which ensure that practices comply with security requirements and the defined script.

4.3.1.2 Legal or Natural Person Certificate

After validation by the RA, the CA initiates the certificate generation process for the CM or the Subject. The conditions for generating keys and certificates and security measures to meet are described in Chapters 5 and 6 below, including the separation of trusted roles. (See section 5.2). Request validation on the RA component and certificate generation on the CA component are detailed in the "[Certificate request operating procedure](#)".

4.3.2 Notification of Certificate Issuance

4.3.2.1 CA Certificate

The delivery of the CA certificate is carried out during the key ceremony, to a CA administrator authorized by the CA in charge of its exploitation and dissemination.

4.3.2.2 Legal or Natural Person Certificate

Complete and accurate certificate is made available to the CM or the Subject on the customer area or on the device provided by CA if applicable. The CM or the Subject authenticates on the customer area to accept the certificate or complete a paper form.

4.4 Certificate Acceptance

4.4.1 Conduct Constituting Certificate Acceptance

4.4.1.1 CA Certificate

The authority representant and the witnesses, which participate to the key ceremony, control the compliance of the certificate with the request. The acceptance is formalized through the record of the key ceremony.

4.4.1.2 Legal or Natural Person Certificate

The acceptance of the certificate is carried out by the CM or the Subject, from their customer area and before downloading their certificate or retrieving the activation data from their support. The CM or the Subject explicitly chooses whether to accept the certificate and the notification of acceptance or refusal is automatically transmitted to the CA.

In case of detection of inconsistency between the information in the contractual agreement and the content of the certificate, the CM or the Subject must refuse the certificate, which will result in its revocation.

4.4.2 Publication of the Certificate by the CA

4.4.2.1 CA Certificate

Root CA and intermediate certificates are published by CA. See Section 2.

4.4.2.2 Legal or Natural Person Certificate

Certificates issued by the CA are not published.

| FR03 | Cachet 2D-DOC |
|---|---------------|
| All certificates issued by FR03 CA are published in a directory after the acceptance of the certificate by the Certificate Manager. The Certificate Manager is aware of this publication. | |

4.4.3 Notification of Certificate Issuance by the CA to Other Entities

The RA is informed of the generation of the certificate by the CA which is responsible for issuing the generated certificate.

4.5 Key Pair and Certificate Usage

4.5.1 Subject Private Key and Certificate Usage

The CA, the CM, or the Subject must strictly respect the permitted uses of key pairs and certificates described at chapter 1.5.1. In the opposite case, they could be held liable.

The authorized use of the key pair and of the associated certificate is also specified in the certificate itself, via the extensions relating to the key usage, if applicable.

As part of the registration files, the Terms and condition are made known to the CM, to the Subject or to the Certification Agent by the CA before entering in a contractual relationship. They are consulted prior to any online certificate request. They are available on the <https://www.certigna.com> website.

The TCSU accepted by the Subject during the certificate request shall remain valid for the entire life of the certificate, or if necessary to the acceptance and signature by the CM or the Subject of new Terms and Conditions issued and made available to it by CA via <https://www.certigna.fr> website. Signed new Terms and Conditions must be provided by the CM or the Subject to the CA to be applicable.

4.5.2 Relaying Party Public Key and Certificate Usage

Certificate users must strictly respect the permitted uses of certificates mentioned at section 1.5.1. In the opposite case, they could be held liable.

4.6 Certificate Renewal

The CA does not issue a new certificate for previously issued key pair. Renewal involves the generation of a new key pair and a new certificate request (see section 4.1). If the CM or the Subject generates his/her key pair, he is committed, accepting the TCSU, to generate a new key pair for each request.

4.6.1 Circumstance for Certificate Renewal

No stipulation.

4.6.2 Who May Request Renewal

No stipulation.

4.6.3 Processing Certificate Renewal Requests

No stipulation.

4.6.4 Notification of new certificate issuance to subscriber

No stipulation.

4.6.5 Conduct constituting acceptance of a renewal certificate

No stipulation.

4.6.6 Publication of the renewal certificate by the CA

No stipulation.

4.6.7 Notification of certificate issuance by the CA to other entities

No stipulation.

4.7 Certificate Re-key

4.7.1 Circumstance for Certificate Renewal

The key pairs must be periodically renewed to minimize the possibilities of cryptographic attacks. Thus, the key pairs of CAs, services, servers, the Subjects, and the corresponding certificates, are renewed regularly (cf. validity period chapter 6.3.2). Moreover, a key pair and a certificate can be renewed early, following the revocation of the certificate.

4.7.2 Who may Request Renewal

The triggering of the provision of a new certificate is initiated by the CM or the Subject (no existence of automated process). The entity, through its Certification Agent if necessary, can also be at the initiative of a new certificate request for a CM or a Subject attached to it.

4.7.3 Processing certificate re-keying requests

See section 4.2.1.

4.7.4 Notification of new certificate issuance to subscriber

See section 4.3.2.

4.7.5 Conduct constituting acceptance of a re-keyed certificate

See section 4.4.1.

4.7.6 Publication of the re-keyed certificate by the CA

See section 4.4.2.

4.7.7 Notification of certificate issuance by the CA to other entities

See section 4.4.3.

4.8 Certificate modification

Changing Subject certificates is not allowed. In case of need to change information in the certificate (mainly DN), a new certificate must be issued after revocation of the old.

4.8.1 Circumstance for Certificate Modification

No stipulation.

4.8.2 Who May Request Certificate Modification

No stipulation.

4.8.3 Processing Certificate Modification Requests

No stipulation.

4.8.4 Notification of New Certificate Issuance to Subscriber

No stipulation.

4.8.5 Conduct Constituting Acceptance of Modified Certificate

No stipulation.

4.8.6 Publication of the Modified Certificate by the CA

No stipulation.

4.8.7 Notification of Certificate Issuance by the CA to Other Entities

No stipulation.

4.9 Certificate Revocation and Suspension

4.9.1 Circumstances for Revocation

4.9.1.1 Reasons for Revoking a CA Certificate

One or more of the following occurs can conduct of revocation the subordinate certificate within 7 days:

- The CA requests revocation in writing;
- The CA notifies the Issuing CA that the original certificate request was not authorized and does not retroactively grant authorization;
- The Issuing CA obtains evidence that the Subordinate CA's Private Key corresponding to the Public Key in the Certificate suffered a Key Compromise or no longer complies with the requirements of Sections 6.1.5 and 6.1.6;
- The Issuing CA obtains evidence that the Certificate was misused;
- The Issuing CA is made aware that the Certificate was not issued in accordance with or that CA has not complied with this document or the applicable Certificate Policy or Certification Practice Statement;
- The Issuing CA determines that any of the information appearing in the Certificate is inaccurate or misleading;
- The CA ceases operations for any reason and has not made arrangements for another CA to provide revocation support for the Certificate;
- The CA's right to issue Certificates under these Requirements expires or is revoked or terminated, unless the Issuing CA has made arrangements to continue maintaining the CRL/OCSP Repository.

4.9.1.2 Reasons for Revoking a Legal or Natural Person Certificate

The following circumstances may cause the revocation of the certificate:

- The CM or the Subject, the legal representative of the entity to which it belongs, if any Certification Agent or DRA operator request the revocation of the certificate (especially in the case of destruction or alteration of the private key and / or its support);
- The legal representative of the entity to which the service, the server or the Subject belongs notifies the CA that the original certificate request was not authorized and does not retroactively grant authorization.
- The CA obtains evidence that the private key corresponding to the public key in the certificate is suspected of being compromised, is compromised, lost or stolen (or possibly the activation data associated with the private key).

| | |
|--|--------------------|
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |
| - The CA obtains proof that the validation of the authorization of the domain or of the control of one or more FQDNs in the certificate is not reliable. | |

The CA will revoke a Certificate within five (5) days if one or more of the following occurs:

- the certificate no longer complies with the requirements of Sections 6.1.5 and 6.1.6 of the Certification Policy;
- The CA obtains evidence that the certificate was misused;
- The CA is made aware that the subject has violated one or more of its material obligations under these TCSU;
- The information of the service, the server or the Subject contained in its certificate, is not in accordance with the identity or purpose in the certificate (eg, change in the identity or function of the server), this before the normal expiry of certificate;
- The CA is made aware that the certificate was not issued in accordance with these Requirements or the CA's Certificate Policy or Certification Practice Statement;
- The CA determines or is made aware that any of the information appearing in the certificate is inaccurate or misleading;
- The CA's right to issue certificates under these Requirements expires or is revoked or terminated, unless the CA has made arrangements to continue maintaining the CRL/OCSP Repository;
- Revocation is required by the CA's Certification Policy and/or Certification Practice Statement;
- The CA is made aware of a demonstrated or proven method that exposes the Private Key to compromise or if there is clear evidence that the specific method used to generate the Private Key was flawed. Methods have been developed that can easily calculate it based on the Public Key (such as a Debian weak key, see <http://wiki.debian.org/SSLkeys>);
- The CM, the subject, the entity, if any Certification Agent or DRA operator, has not fulfilled its obligations under the CP or the CPS;
- The CA ceases operations for any reason and has not made arrangements for another CA to provide revocation support for the certificate;
- The CA's right to issue certificates under these Requirements expires or is revoked or terminated, unless the CA has made arrangements to continue maintaining the CRL/OCSP Repository;
- The CA signing the certificates is revoked (which results in the revocation of all valid certificates signed by the corresponding private key);
- The technical content or format of the certificate presents an unacceptable risk to Application Software Suppliers or Relying Parties (e.g. the CA/Browser Forum might determine that a deprecated cryptographic/signature algorithm or key size presents an unacceptable risk and that such certificates should be revoked and replaced by CA within a given period of time).
- The cryptographic device used to store the certificate and the private key of the Subject or of the CM no longer complies or will no longer comply with the requirements of chapter 11 of the CP (Ex: a qualification or certification would no longer be maintained or would be suspended);
- The final shutdown of the service or the server or the cessation of activity of the CM entity;
- The departure of the Subject from the entity or the cessation of activity of the entity attached to the Subject;
- An error (intentional or not) was detected in the certificate request and the associated registration files;
- For technical reasons (failure to send the certificate ...).

| | |
|--|--------------------|
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |
| <ul style="list-style-type: none"> - The CA is made aware of any circumstance indicating that use of a Fully-Qualified Domain Name or IP address in the Certificate is no longer legally permitted (e.g. a court or arbitrator has revoked a Domain Name Registrant's right to use the Domain Name, a relevant licensing or services agreement between the Domain Name Registrant and the Applicant has terminated, or the Domain Name Registrant has failed to renew the Domain Name). | |

| | |
|--|--------------------------------|
| CERTIGNA ENTITY CA | Seal for mails/docs/timestamps |
| SERVICES CA | Web authentication |
| TS 119 495 DSP2 | |
| <ul style="list-style-type: none"> - Information in the Public Register has changed to substantially affect the validity of the PSD2 attributes in the certificate; - the authorization status granted by that NCA has changed (e.g. that PSP is no longer authorized or one of its roles has been revoked). | |

When the above circumstances occurring, and the CA has knowledge about that, the relevant certificate is revoked.

4.9.2 Who Can Request Revocation

4.9.2.1 CA Certificate

The revocation of a CA certificate can only be decided by the entity responsible of the CA, or by the judicial authorities via a court order.

The revocation of the other components of certificates is decided by the entity operating the concerned component, which must inform the CA immediately.

4.9.2.2 Legal or Natural Person Certificate

Individuals or entities may request revocation of a Subject certificate are:

- The CM or the Subject;
- A legal representative of the entity to which is attached the Subject;
- If appropriate, a Certification Agent;
- The CA;
- The RA or DRA operators.

| | |
|---|--------------------------------|
| CERTIGNA ENTITY CA | Seal for mails/docs/timestamps |
| SERVICES CA | Web authentication |
| TS 119 495 DSP2 | |
| <ul style="list-style-type: none"> - An authenticated NCA. See Section 3.4.2.2 | |

The Certificate Manager or the Subject is informed, particularly through the TCSU accepted by him/her, persons or entities that may request a revocation of the certificate for which he/she is responsible.

In addition, applicants, application service providers, or third parties may submit Certificate Problem Reports informing the issuing CA of reasonable cause to revoke the certificate.

4.9.3 Procedure for Revocation Request

4.9.3.1 CA Certificate

In case the CA decides to revoke the intermediate CA certificate (following the compromise of the private key of the CA), the latter informed by email all CMs and Subjects that their certificates are no longer valid because one of the certificates in the certificate chain is no longer valid. This information will also be relayed directly from the entities and where appropriate their Certification Agent. The contact identified on the site of ANSSI (<https://www.ssi.gouv.fr>) is immediately informed in case of revocation of a certificate of the certification chain.

The revocation mechanism is described in the "[Operational revocation request procedure](#)". The process is detailed in the "[Cryptographic key management procedure](#)" and in the "[Component certificate management procedure](#)".

4.9.3.2 Legal or Natural Person Certificate

The revocation request is made by the RA, a Certification Agent or the CA. The revocation management function is available 24h/24 7D/7 for revocations online. For a request made from the customer area, the user authenticates with his/her account and select the certificate to be revoked.

For a request by mail, the following information must be included in the certificate revocation request (form to download on the website):

- The identity of the CM or the Subject;
- The email address of the CM or the Subject;
- The reason of the revocation;

If the CM or the Subject is not the subscriber:

- The first and last name of the subscriber;
- The quality of the subscriber (legal representative, if appropriate DRA operator or Certification Agent);
- The subscriber's phone number.

If the application is sent by mail, it must be signed by the subscriber (the signature is verified by the RA with that of the certificate request files).

If the request is made online, the empowerment of the person to perform this request is checked (authentication with the user account). In this case the person making the request can be:

- The CM or the Subject;
- If appropriate, a Certification Agent;
- The CA;
- The RA or DRA operators.

The steps are:

- The applicant for revocation sends his/her request to the RA by mail or online;
- The RA authenticates and validates the revocation request to the requirements described in Chapter 3.4;

- The certificate serial number is registered in the CRL;
- In all cases, the CM or the Subject is notified of the revocation by email;
- The transaction is recorded in the event logs with, if necessary, sufficient information on the underlying causes that led to the revocation of the certificate;

The CA does not publish in the CRL the causes of revocation.

For reporting a malicious or dangerous certificate (suspected Private Key compromise, certificate misuse, or other types of fraud, compromise, inappropriate conduct, etc.) or any other matter related to certificates, use the contact form available at <https://www.certigna.com/contactez-nous/> by selecting "Certificate considered malicious or dangerous".

4.9.4 Revocation Request Grace Period

As soon as the CM or the Subject or an authorized person has knowledge that a possible cause for revocation is effective, it must make its revocation request without delay.

4.9.5 Time within which CA Must Process the Revocation Request

4.9.5.1 CA Certificate

The revocation of a certificate of a PKI component is performed upon detection of an event described in the possible causes of revocation for this type of certificate.

The revocation of the signing CA certificate (signing certificates / CRL / OCSP responses) is performed immediately, particularly in the case of compromise of the key.

The organization and the means implemented in the event of revocation of a certificate of a component of the PKI are described in the "[Cryptographic key management procedure](#)" and in the "[Component certificate management procedure](#)".

4.9.5.2 Legal or Natural Person Certificate

In all cases, the maximum period for processing revocation request is 24 hours. This delay means between the receipt of the authenticated revocation request and the provision of revocation information from users.

| | |
|--|---------------------------|
| SERVICES CA | <i>Web authentication</i> |
| WILD CA | <i>Web authentication</i> |
| <p>Within 24 hours after receiving a certificate problem report, the CA investigates the facts and circumstances related to a certificate problem report and provides a preliminary report on its findings to both the Certificate Manager and the entity who filed the certificate problem report.</p> <p>After reviewing the facts and circumstances, the CA works with the Certificate Manager and any entity reporting the certificate problem report or other revocation-related notice to establish whether or not the certificate will be revoked, and if so, a date which the CA will revoke the certificate. The period from receipt of the certificate problem report or</p> | |

revocation-related notice to published revocation will not exceed the time frame set forth in Section 4.9.1. The date selected by the CA can consider the following criteria:

- The nature of the alleged problem (scope, context, severity, magnitude, risk of harm);
- The consequences of revocation (direct and collateral impacts to Certificate Managers and Relying Parties);
- The number of certificate problem reports received about a particular certificate or Certificate Manager;
- The entity making the complaint (for example, a complaint from a law enforcement official that a Web site is engaged in illegal activities should carry more weight than a complaint from a consumer alleging that she didn't receive the goods she ordered);
- Relevant legislation.

The revocation management function is available 24h/24 7D/7 for revocations online.

RGS ***

The maximum downtime of the revocation management function:

- per interruption (failure or maintenance) is 1 hour.
- per month is 4 hours.

RGS **

The maximum downtime of the revocation management function:

- per interruption (failure or maintenance) is 2 hours.
- per month is 8 hours.

RGS *

The maximum downtime of the revocation management function:

- per interruption (failure or maintenance) is 2 hours (workdays).
- per month is 16 hours (workdays).

4.9.6 Revocation Checking Requirement for Relying Parties

The user of a service, server or Subject certificate must check before its use, the status of certificates of all the relevant certificate chain. The method used (CRL or OCSP) is at the discretion of the user based on their availability and constraints in its implementation.

4.9.7 ARL/CRL Issuance Frequency

An ARL is issued at least every year. In addition, a new ARL is published systematically and immediately after the revocation of a certificate.

A CRL from an intermediate CA is issued at least every 24 hours. In addition, a new CRL is published systematically and immediately after the revocation of a certificate.

4.9.8 Maximum Latency for ARLs/CRLs

An ARL or a CRL is issued within a maximum of 30 minutes after its generation.

4.9.9 On-line Revocation/status Checking Availability

In addition to the CRL publication on the online websites, CA make available an OSCP responder conform to RFC6960 and/or RFC5019. The OSCP responder meets the requirements of integrity, availability and deadline for the publication described in this CP.

OCSP responses are signed by an OSCP Responder whose certificate is signed by the CA that issued the certificate whose revocation status is being checked.

4.9.10 On-line Revocation Checking Requirements

OCSP responders operated by the CA supports the HTTP GET method, as described in RFC 6960 and/or RFC 5019. In addition to the CRL publication on the online websites, CA make available an OSCP responder available at the following addresses:

| CERTIGNA ENTITY CA | |
|---------------------------------|--|
| OCSP | http://entityca.ocsp.certigna.fr http://entityca.ocsp.dhimyotis.com |
| CERTIGNA ENTITY CODE SIGNING CA | |
| OCSP | http://entitycsca.ocsp.certigna.fr http://entitycsca.ocsp.dhimyotis.com |
| FR03 | |
| OCSP | http://2ddoc.ocsp.certigna.fr http://2ddoc.ocsp.dhimyotis.com |
| CERTIGNA SERVICES CA | |
| OCSP | http://servicesca.ocsp.certigna.fr http://servicesca.ocsp.dhimyotis.com |
| CERTIGNA WILD CA | |
| OCSP | http://wildca.ocsp.certigna.fr http://wildca.ocsp.dhimyotis.com |
| CERTIGNA IDENTITY CA | |
| OCSP | http://identca.ocsp.certigna.fr http://identca.ocsp.dhimyotis.com |
| CERTIGNA IDENTITY PLUS CA | |
| OCSP | http://identityplusca.ocsp.certigna.fr http://identityplusca.ocsp.dhimyotis.com |

4.9.11 Other Forms of Revocation Advertisements Available

| | |
|---|--------------------|
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |
| <p>As part of the CERTIGNA OSCP Responder service, up to 250,000 OSCP requests are allowed per certificate per day. If this threshold is exceeded, CERTIGNA reserves the right to impose on the Certificate Manager the implementation of the <i>OCSP Stapling</i> mechanism on the server secured by the certificate.</p> <p>If the <i>OCSP stapling</i> is refused, CERTIGNA may revoke the certificate to maintain and guarantee the availability of the OSCP responder for all its customers.</p> | |

Note - The *OCSP Stapling* mechanism consists of configuring the client's secure server so that it acts as a proxy for the OCSP interrogation, to drastically reduce the number of requests transmitted to the CA OCSP responder.

4.9.12 Special Requirements Related to Key Compromise

The Certificates Manager, the Subject or the Certification Agent must request the certificate revocation promptly after becoming aware of the compromise of the private key.

For CA certificates, in addition to the requirements of Section 4.9.3 above, the revocation following a compromise of the private key is being clear information distributed at least on the website of the CA and possibly relayed by other means (other institutional websites, newspapers, etc.).

The implemented measures are defined in the "[Cryptographic key management procedure](#)" and in the "[Component certificate management procedure](#)".

| CERTIGNA IDENTITY PLUS CA | Authentication/signature |
|---|--------------------------|
| RGS *** | |
| In case of compromise of his/her private key or knowledge of the compromise of the private key of the CA that issued the certificate, the Subject is obligated to immediately and permanently stop the use of the Subject certificate and private key that it is associated. Remember, this commitment is made upon acceptance of the TCSU. | |

The following methods may be used to report to the contact information described in section 4.9.3.2, a key Compromise of a CERTIGNA Certificate:

- Submitting a CSR signed by the Private Key and verifiable with the Public Key;
- Submitting a test file/challenge response signed by the Private Key and verifiable with the Public Key;
- Providing references to vulnerability and/or security incident sources from which the Compromise is verifiable;
- Submitting the Compromised Private Key to CERTIGNA. This method is not recommended but will be considered proof of Key Compromise.

CERTIGNA MAY allow additional methods that do not appear in this section at its own discretion and will update the CP and CPS if a new method is accepted.

4.9.13 Circumstances for Suspension

The certificates issued by the CA cannot be suspended.

4.9.14 Who can Request Suspension

Not applicable.

4.9.15 Procedure for Suspension Request

Not applicable.

4.9.16 Limits on Suspension Period

Not applicable.

4.10 Certificate Status Service

4.10.1 Operational characteristics

The CA provides to certificate users the information needed to verify and validate, prior to their use, the status of their certificates and all the corresponding certificate chain (up to and including Root CA), i.e. to also check the signatures of the certificates in the chain, signatures guaranteeing the origin and integrity of the CRL/LAR and the state of the certificate of Root CA.

The information based on the status of certificates makes available to certificates users a free consultation mechanism CRL/ARL. These CRL/ARL are in CRL V2 format published on the publication website (available with the HTTP protocol). The publishing service activities are defined in the "[Publishing Service Management Procedure](#)".

4.10.2 Service Availability

The information function on the status of certificates is available 24/7.

| |
|--|
| RGS *** |
| The maximum downtime of the information function on the status of certificates: <ul style="list-style-type: none">- per interruption (failure or maintenance) is 2 hours.- per month is 8 hours. |
| RGS ** |
| The maximum downtime of the information function on the status of certificates: <ul style="list-style-type: none">- per interruption (failure or maintenance) is 4 hours.- per month is 16 hours. |
| RGS * |
| The maximum downtime of the information function on the status of certificates: <ul style="list-style-type: none">- per interruption (failure or maintenance) is 4 hours (workdays).- per month is 32 hours (workdays). |

If check online of the status of a certificate, the OCSP server response time to the received request is a maximum of 10 seconds. This is the time measured at the server (request received by the server and response from the latter). The replication of services on several information systems ensures automatic continuity of services in the event of a disaster. The CA also relies on its staff on-call during non-working hours to supervise the availability alerts for these functions.

4.10.3 Optional Features

No stipulation.

4.11 End of Subscription

In case of termination of the contractual or the statutory relationship between the CA and the entity attached to the service, the server or the Subject before the end of validity of the certificate, the certificate is revoked.

4.12 Key Escrow and Recovery

The escrow of private keys is prohibited for all certification authorities except for private keys of Certigna Identity CA encipherment certificates.

| CERTIGNA IDENTITY CA | Encipherment |
|--|--------------|
| Encipherment | |
| Private keys of the subjects are escrowed. | |

4.12.1 Key escrow and recovery policy and practices

The escrow of private keys is prohibited except for encipherment keys.

4.12.1.1 Escrow Request

| CERTIGNA IDENTITY CA | Encipherment |
|--|--------------|
| Encipherment | |
| The escrow of the certificate and the key pair are automatically made for a period of ten (10) years from the date of issuance of the certificate. The Subject may, at the time of the order, ask to change the retention period or do not to benefit from the escrow. | |

4.12.1.2 Processing an Escrow Request

| CERTIGNA IDENTITY CA | Encipherment |
|--|--------------|
| Encipherment | |
| The certificate of encipherment and the associated private key are the subject of a escrow allowing their recovery in case of loss. The duration of the escrow is ten (10) years from the date of issue of the certificate unless explicitly requested by the Subject when requesting the certificate. Each escrowed private key is uniquely identified and unequivocally by the serial number of the corresponding certificate. | |

4.12.1.3 Who can request Escrow Request

| CERTIGNA IDENTITY CA | Encipherment |
|--|--------------|
| Encipherment | |
| In addition to the subjects and entities authorized by law to access private keys escrowed by a CA, the only legal representative of the entity or explicitly designated person (by name or by position) by the legal representative of the entity may request the recovery of a private key of a given subject. | |

4.12.2 Identification and Authentication of a Recovery Request

CERTIGNA IDENTITY CA

Encipherment

Encipherment

The identity of the subject for a recovery must be validated, except in special cases of the entities authorized by law, by the RA following the same requirements as the initial validation of the identity of a certificate applicant (Cf. chapter 3.2). The request for recovery must include at least the reason for the recovery of the private key and the information to identify the private key to recover. The RA ensures that the applicant is one of the persons entitled to seek recovery of the relevant key.

4.12.2.1 Processing a Recovery Request

CERTIGNA IDENTITY CA

Encipherment

Encipherment

Following the identification and validation of the request for recovery, a RA operator shall provide the private key to the applicant, with equivalent safety to the delivery of the private key when generating for the certificate subject. The pieces of the recovery request are archived by the RA.

4.12.2.2 Destruction of Key Escrowed

CERTIGNA IDENTITY CA

Encipherment

Encipherment

At the end of the retention period of an escrowed key, all copies of that key held by CA are reliably destroyed.

4.12.2.3 Availability of Escrow and Recovery Functions

CERTIGNA IDENTITY CA

Encipherment

Encipherment

The recovery management function is available during business hours. In all cases, the maximum period for processing a request for recovery is 72 hours. This delay means between the receipt of the authenticated request for recovery and the provision of the private key to the applicant.

5 MANAGEMENT, OPERATIONAL, AND PHYSICAL CONTROLS

REMINDER – CA conducted a risk analysis to determine the specific security objectives, to cover the business risks of the entire PKI, and technical and non-technical security measures to implement. Its CPS was developed based on this analysis. This CPS is established based on this risk analysis. The management of information security risks is described in the "[IS Risk Management Procedure](#)" and in the "[IS Risk Management Form](#)".

5.1 Physical Security Controls

5.1.1 Site Location and Construction

The information systems used for CA functions are hosted in several production centers with the same security features. The location of the sites does not present major risks.

The risks are identified in the document "[Risk Management IS](#)".

5.1.2 Physical Access

A strict control of physical access to the components of PKI is performed, with access logging and video surveillance: the defined security perimeter around the systems hosting the PKI components is limited to people within a trusted role on this PKI.

Outside working hours, the implementation of physical and logical intrusion detection means strengthening the security of the PKI. In addition, any person (external service provider, etc.) entering in this physically secure area cannot be left without the supervision of an authorized person. Physical access to production centers is restricted through physical access control measures. The measures implemented are described in the "[Safety Policy](#)".

5.1.3 Power and Air Conditioning

Measures concerning the supply of electricity and air conditioning are taken to meet the commitments of the CA described in this CP on ensuring the level of availability of its functions, including revocations management features and information functions on the status of certificates. The production centers are equipped with inverters and generators. The measures implemented are described in the "[Safety Policy](#)".

5.1.4 Water Exposures

Measures for protection against water damage are taken to address the CA commitments described in this CP on ensuring the level of availability of its functions, including revocations management functions and information functions on the status of certificates. Means for the detection of water leaks are positioned in the production centers. The measures implemented are described in the "[Safety Policy](#)".

5.1.5 Fire Prevention and Protection

Measures for prevention and protection against fire are taken to address the CA commitments described in this CP on ensuring the level of availability of its functions, including revocations management functions and information functions on the status of certificates.

The computer rooms of the production centers are equipped with inert gas extinguishing systems. The measures implemented are described in the "[Safety Policy](#)".

5.1.6 Media Storage

The information and their supporting assets involved in the activities of the IGC are identified, inventoried and their security needs defined in terms of availability, integrity and confidentiality.

The assets are listed in the "[Asset Inventory](#)" document, and the security requirements in the "[IS Risk Management Form](#)".

Specific measures are implemented to avoid compromise or theft of information. The assets corresponding to this information are managed according to procedures conforming to these security needs. They are handled in a secure manner to protect the assets from damage, theft and unauthorized access. Management procedures protect media against obsolescence and deterioration during the period during which the CA agrees to keep the information contained therein.

The measures implemented allow to cover the risks identified through the form "[IS risk management](#)".

The "Security Policy", the "[Asset Management Procedure](#)" and the "[Materiel Management Procedure](#)" describe the measures implemented.

5.1.7 Waste Disposal

The measures taken for the disposal of media are compliant with the level of confidentiality of the corresponding information.

The "[Security Policy](#)", the "[Asset Management Procedure](#)" and the "[Materiel Management Procedure](#)" describe the measures implemented.

5.1.8 Off-site Backup

Outsourced backups are implemented and organized in such a way as to ensure that the IGC functions are available as soon as possible after an incident, and in accordance with the commitments of this PC, in particular regarding the availability and protection of the confidentiality and integrity of saved information.

The "Backup Procedure", the "[Asset Management Procedure](#)" and the "[Materiel Management Procedure](#)" describe the measures implemented.

5.2 Procedural Controls

5.2.1 Trusted Roles

Each PKI component distinguishes at least the seven following functional trust roles:

- **Security officer:** The security officer is responsible of implementing the component's security policy. He manages the controls on the physical access to the component's system hardware. He is authorised to review the archives and is responsible of analysing the event logs to detect any incident, anomaly, attempted compromise, etc.
- **Application manager:** Within the component to which he is attached, the application manager is responsible of implementing the certification policy and the declaration of the PKI's certification practices on the level of the application for which he is responsible. His responsibility includes all the functions provided by this application and the corresponding performances.
- **System administrator:** He is responsible of the start-up, configuration and technical maintenance of the component's IT hardware. He provides the technical administration of the component's systems and networks.
- **Operator:** Within a PKI component, based on his duties, an operator runs applications for the functions implemented by the component.
- **Controller:** Designated by a competent authority, this person's role is to regularly perform verifications on the compliance of the implementation of the functions provided by the component relative to the certification policies, to the PKI's declarations of certification practices, and to the component's security policies.
- **Registration Officer:** Responsible for approving end entity Certificate generation and revocation.
- **Secret share holder:** It has the responsibility to ensure the confidentiality, integrity and availability of the secrets assigned to him.

The different roles are defined in the description of functions specific to any entity operating a component of the PKI on the principles of separation of duties and least privilege. These roles determine the sensitivity of the functions, depending on responsibilities and access levels, background checks and employee training and awareness.

The documents "[Roles, Responsibilities and Authorities](#)", "[Personnel Management Procedure](#)" and "[Staff Monitoring](#)" describe the measures implemented.

Measures are in place to prevent equipment, information, media and software relating to CA services are removed from the site without permission.

The "[Security Policy](#)", the "[Asset Management Procedure](#)" and the "[Materiel Management Procedure](#)" describe the measures implemented.

5.2.2 Number of Individuals Required per Task

For reasons of availability, each task must be performed by at least two people. For some sensitive tasks like operations on HSM (e.g. key ceremony), many people are required for security reasons and "dual control."

The documents "[Roles, Responsibilities and Authorities](#)", "[Personnel Management Procedure](#)" and "[Staff Monitoring](#)" describe the measures implemented.

5.2.3 Identification and Authentication for Trusted Roles

Each role assignment to a member of the PKI staff is attributed and accepted formally. This role is clearly mentioned and described in his/her job description. CA checks the identity and permissions of any member of its staff before assigning privileges to its functions. Assigning a role to a member of staff following the PKI particularly strict procedure with signing of the minutes for the allocation of all elements necessary for the performance of this role in the PKI (keys, access codes, cryptographic keys, etc.).

The documents "[Roles, Responsibilities and Authorities](#)", "[Personnel Management Procedure](#)" and "[Staff Monitoring](#)" describe the measures implemented.

5.2.4 Role Requiring Separation of Duties

About trusted roles, the following rollups are prohibited within the PKI:

- Security officer and system administrator / operator;
- Controller and any other role;
- System operator and administrator.

The document "[Roles, Responsibilities and Authorities](#)", the "[Personnel Management Procedure](#)" and the "[Staff Monitoring](#)" document describe the measures implemented.

5.3 Personnel Security Controls

5.3.1 Qualifications, Experiences, and Clearance Requirements

All staff must work within the PKI components must sign the internal security charter. This charter contains a confidentiality clause which applies both in respect of third parties and users. It lists the roles of each employee within the PKI. She is co-signed by the employee and the security officer. Matching skills of personnel involved in the PKI is checked in compliance with its duties on the components. The management personnel, the security officer, system administrators, have the expertise necessary for the performance of their respective roles and are familiar with the security procedures applied to the operation of the PKI. AC informs any employee involved in the PKI trusted roles of its responsibilities for PKI services and procedures related to system security and monitoring staff.

Professional skills are determined during recruitment and each year by Security Officers.

The documents "[Roles, Responsibilities and Authorities](#)", "[Personnel Management Procedure](#)" and "[Staff Monitoring](#)" describe the measures implemented.

5.3.2 Background Check Procedures

The CA ensures that all employees involved on the PKI suffered no contradiction in justice conviction with their functions. The employees provide a copy of the bulletin Number 3 before their Assignment of his/her criminal record. This check is renewed periodically (at least every 3 years). In addition, the CA ensures that the employees do not suffer from conflict of interests detrimental to the impartiality of their tasks. The CA can decide in case of refusal of the

personnel to communicate this copy or in case of presence of a court judgment incompatible with the attributions of the personnel, to withdraw these attributions to them.

The documents "[Roles, Responsibilities and Authorities](#)", "[Personnel Management Procedure](#)" and "[Staff Monitoring](#)" describe the measures implemented.

5.3.3 Training Requirements and Procedures

Initial training to software, hardware and internal operating and safety procedures is provided to employees, in line with the role that the CA assigns. An awareness on the implications of the operations whose they are responsible is also achieved.

| | |
|--|--------------------|
| SERVICES CA | Web authentication |
| WILD CA | Web authentication |
| The CA keeps records of the training provided and ensures that the personnel enrolled as the Registration Officer maintain a level of competence that allows them to carry out their missions. The CA ensures that the Registration Officers have the necessary skills before allowing them to carry out their missions and that each Registration Officer passes the evaluations provided by the CA on the verification of information related to the requirements of the CA / Browser Forum. | |

The document "[Roles, Responsibilities and Authorities](#)", the "[Personnel Management Procedure](#)" and the "[Staff Monitoring](#)" document describe the measures implemented.

5.3.4 Retraining Frequency and Sequence

The staff concerned receives adequate information and training prior to any changes in systems, procedures in the organization.

The document "[Roles, Responsibilities and Authorities](#)", the "[Personnel Management Procedure](#)" and the "[Staff Monitoring](#)" document describe the measures implemented.

5.3.5 Job Rotation Frequency and Sequence

No stipulation.

5.3.6 Sanctions for Unauthorized Actions

Any member of the CA staff acting in contradiction with established policies and procedures of this CP and internal processes and procedures of the PKI, or negligently or maliciously, will see his/her privileges revoked and will be subject to administrative sanctions or judicial proceedings.

5.3.7 Independent Contractor Controls

The staff of external providers involved in local and /or components of the PKI must also meet the requirements of this Section 5.3. This is translated into appropriate clauses in contracts

with those providers. If so, whether the level of intervention requires, it may be asked to the provider to sign the IT charter and / or provide background check elements.

External staff are monitored through the "[Third Party Management Procedure](#)". An assessment of the IS risks related to the third parties is carried out and the security needs/requirements are mapped in order to be followed through the document "[Third party monitoring](#)" and the associated contractual agreements.

5.3.8 Documentation Supplied to Personnel

Each employee has the adequate documentation of operational procedures and specific tools that implements and general policies and practices of the component within which he/she works. The CA gives him/her the impacting security policies. Operators have the operator manuals corresponding to the components on which they are involved.

The document "[Roles, Responsibilities and Authorities](#)", the "[Personnel Management Procedure](#)" and the "[Staff Monitoring](#)" document describe the measures implemented for awareness and training, and the "[Document Management Procedure](#)" defined the management of these documents.

5.4 Audit Logging Procedures

Relevant events involved in the management and operation of the PKI are recorded in manuscript or electronically form (by seizure or by automatic generation) and, for purposes of audit.

5.4.1 Types of Events Recorded

The operating systems of the PKI servers will log the following events automatically on start-up and in electronic form (non-exhaustive list):

- Create / modify / delete user accounts (access rights) and corresponding authentication data;
- Start and stop IT systems and applications;
- Events related to logging: actions taken following a failure of the logging function;
- Connecting / disconnecting users with trusted roles, and corresponding unsuccessful attempts.

Other events are also collected. It is those concerning safety and not automatically generated by computer systems:

- Physical access (recorded electronically);
- The logical access to systems;
- The actions of maintenance and configuration changes in manually registered systems;
- Changes in personnel;
- Operation of disposal and reset of media containing confidential information (keys, activation data, personal information on Subscribers, CMs and Subjects).

Specific events to different functions of the PKI are also logged:

- Events related to signing keys and CA certificates or activation data (generation, backup and recovery, revocation, destruction, disposal of media, ...);

- Receiving a certificate request (initial and renewal);
- Validation / reject a certificate request;
- Certificate generation of services, servers and Subjects;
- Certificate transmission to CM or Subjects and, if appropriate, acceptances / explicit releases by CMs and Subjects;
- Publish and update information related to the CA (CP / CPS, CA certificates, Terms and Conditions, etc.);
- Receipt of requests for revocation;
- Validation / reject a request for revocation;
- CRL generation and publication;
- Disposal of media containing personal information on Subscribers, CMs and Subjects.

The logging process allows real-time recording of the operations carried out.

Each record of an event in a journal contains at least the following fields:

- The type of event;
- The date and time of the event (the exact time of the significant CA events on the environment, key management and certificate management is recorded);
- The name of the executant or the reference of the system that triggered the event;
- The result of the event (success or failure).

Depending on the type of event, there are also the following fields:

- The recipient of the operation;
- the name of the applicant of the operation or the reference of the system which request;
- The names of those present (for operations requiring several persons);
- The cause of the event;
- All the information characterizing the event (eg. Serial number of the certificate issued or revoked).

The logging process allows real-time recording of transactions. In case of manual input, writing is made exceptions the same business day as the event. The events and specific data to be logged are documented by the CA.

In case of manual entry, the writing is done, except exception, the same working day as the event.

The events and specific data to be logged are documented by the CA.

The measures implemented are described in the « [Logging Procedure](#) » and the « [Archive Procedure](#) ».

5.4.2 Frequency for Processing and Archiving Audit Logs

Cf. chapter 5.4.8

5.4.3 Retention Period for Audit Logs

The retention period for event logs on site is 1 month. Archiving of event logs is made no later than 1 month after their generation.

5.4.4 Protection of Audit Log

Only members dedicated CA can process these files. The systems generate event logs (except for physical access control systems) are synchronized to a reliable source of UTC time (cf. 6.8. Timestamp / dating system).

Write access to the logs is protected through the logical and physical access controls described in the "[Logging Procedure](#)", the "[Logical Access Control Policy](#)" and the "[Safety Policy](#)".

The systems generate event logs (except for physical access control systems) are synchronized to a reliable source of UTC time (cf. 6.8. Timestamp / dating system).

The "[Clocks Synchronization Procedure](#)" describes the measures implemented.

5.4.5 Audit Log Backup Procedures

Security measures are implemented by any entity operating a PKI component to ensure the integrity and availability of event logs for the component considered, in accordance with the requirements of this CP. A backup is performed at high frequency to ensure the availability of such information.

5.4.6 Audit Log Accumulation System

Event logs are centralized in a hub. The consolidation obtained is accessible by CERTIGNA staff. The protection of the confidentiality and integrity of event logs is ensured by logical access control and the use of file sealing tools.

5.4.7 Notification to Event-causing Subject

No stipulation.

5.4.8 Vulnerability Assessment

The event logs are monitored once per workday to identify abnormalities related to failed attempts (access or instruction).

Event logs are analysed in their entirety to the frequency of at least once every workday and upon detection of an abnormality. A summary analysis is produced for the occasion.

A reconciliation between the various logs of functions that interact with each other is made at the rate of at least 1 time per week to verify the correlation between dependent events and to reveal any abnormality. The auditor is assisted by a person with skills related to the different environments used.

The measures implemented are described in the « [Logging Procedure](#) ».

5.5 Records Archival

5.5.1 Types of Records Archived

CA is archiving:

- The software (executable) constituent of the PKI;
- IT equipment configuration files;
- Event Logs of various components of the PKI;
- The CP;
- The CPS;
- The digital Certificate requests;
- The records of Certification Agent registration;
- The records of DRA operator registration;
- The certificate request files with credentials;
- The certificates issued;
- The requests for revocation;
- The CRL issued;
- The OCSP responses.

5.5.2 Retention Period for Archive

5.5.2.1 Certificates Application Files

All accepted certificate registration files are archived seven years minimum and as long as necessary for supply needs of the proof of certification in legal proceedings in accordance with applicable law, in particular Article 6-II of the implementing decree n ° 2001-272 of 30 March 2001. In this context, it is archived for at least seven years, as maximum from the acceptance of the certificate by the Subject. During this period of enforceability of documents, the certificate request files can be submitted by the CA in any solicitation by the competent authorities. The files, completed by the words recorded by the RA or Certification Agents, is traceable to find at an instant "t" the real identity of Subject of the certificate issued by the CA in the certificate.

5.5.2.2 Certificates, CRL / ARL and OCSP responses issued by the CA

Certificates of Subjects and of CA and the CRL / ARL produced (respectively by the CA and Certigna Root CA), are archived for at least seven years after their expiration. OCSP responses produced are archived for at least three months after their expiration. OCSP responses are automatically destroyed after this delay.

5.5.2.3 Event logs

Event logs specified in Chapter 5.4 are archived for seven years after the associated certificates expiration. The archives are kept in multiple copies through the process of replication between production centers, which ensures the protection and availability of information. Electronic records are deleted (Periodic Process) after their retention period has passed.

The paper application files are physically destroyed. Beyond the first 11 years of operation of the CA, a manual clear archive procedure is performed on the different production centers.

5.5.3 Protection of Archive

During the time of their conservation, the archives are protected in integrity. They can be played back and used by the dedicated members of the CA. Write access to these files is protected (rights management). Access to read the logs (stored on NetApp servers) is only possible from a machine identified and authorized in the internal networks.

5.5.4 Archive Backup Procedures

The mirroring process (automatic or manual in case of recovery) guarantees the existence of a backup of the entire archive.

To compensate for the impossibility of replication between the production sites, daily backups are carried out in order to guarantee the existence of a copy of the recorded data.

5.5.5 Requirements for Timestamping of Records

The data are dated according to Chapter 6.8.

5.5.6 Archive Collection System

Archiving is achieved with archiving servers which ensure the availability, integrity and confidentiality of archives.

The "[Backup Procedure](#)" and the "[Archive Procedure](#)" describe the measures implemented.

5.5.7 Procedures to Obtain and Verify Archive Information

Archives can be recovered only by the dedicated members of the CA authorized to process these files within a maximum of two workdays. Data about contractors can be retrieved on their request.

5.6 Key Changeover

5.6.1 CA Key

The CA cannot generate a certificate for which the end date is later than the expiration date of the certificate corresponding to the CA. For this, the validity period of the CA certificate must be higher than the certificate that it signs. Knowing the date of expiry of the certificate, renewal must be requested within a delay at least equal to the lifespan of the certificates signed by the corresponding private key.

When a new CA key pair is generated, only the new private key is used to sign certificates. The previous certificate can still be used to validate certificates issued under this key until that all certificates signed with the corresponding private key have expired.

The CERTIGNA PKI communicate on its website in case of generation of a new certificate for the CA or CERTIGNA Root CA, inviting users to download the new certificate chain.

The "[Cryptographic Key Management Procedure](#)" and the "[Key monitoring](#)" document describe the measures implemented.

5.6.2 Keys of the Other Components

The associated key pairs and certificates of the PKI components are renewed in the three months before their expiry or after revocation of the certificate valid.

5.7 Compromise and Disaster Recovery

The CA establishes procedures to maintain activities, wherever possible, and described in these procedures, the steps provided in case of corruption or loss of computing resources, software and data. These procedures are formalized as part of the implementation of Business Continuity Plans. In particular for the major risks identified, these plans address the immediate treatment in the case of strong constraints of service availability required by the PC. The operation of a supervisory monitor ensures that incidents are detected and taken into account in real time at both production sites.

5.7.1 Incident and Compromise Handling Procedures

In the event of a major incident, such as loss, suspicion of compromise, compromise, theft of the private key of the CA, the triggering event is the finding of this incident in the component concerned, which must inform the CA immediately.

The case of major incidents is imperative treated when detected, and the publication of the certificate revocation information, if any, will be made in the most urgent, if not immediately, by all appropriate and available means (press, website, receipt, etc.).

Similarly, if one of the algorithms, or associated parameters, used by the CA or its promoters / servers becomes insufficient for its intended use remaining, then the CA:

- Inform all CMs and Subjects and third certificate users with whom the CA has agreements or other forms of established relationships. In addition, this information must be made available to other users of certificates;
- Revoke any certificate concerned.

The "[Incident Management Procedure](#)" and the "[Business Continuity Plans](#)" describe the measures implemented.

5.7.2 Recovery Procedures if Computing Resources, Software, and/or Data Are Corrupted

Each component of the PKI is integrated into the business continuity plan (BCP) of the company to meet the availability requirements of the various functions of the PKI under the CA commitments and results of the analysis risk of PKI, especially regarding the functions related to the publication and / or related to the revocation. This plan is tested at least once every two years. The "[Incident Management Procedure](#)" and the "[Business Continuity Plans](#)" describe the measures implemented.

5.7.3 Recovery Procedures After Key Compromise

The case of compromise of a key infrastructure or control of a component is treated in the business continuity plan of the component as a disaster (see Section 5.7.2).

In the case of compromise of a CA key, the corresponding certificate will be immediately revoked (see section 4.9).

Similarly, all valid Subject certificates issued by this CA will be revoked. In addition, the CA meets at least the following commitments:

- It shall inform the following entities of the compromise: all CMs, Subjects, Certification Agent and other entities with which the CA has agreements or other forms of established relationships, including third-party users and others CA. In addition, this information is made available to other third-party users;
- It shall inform especially that certificates and revocation status information issued using this CA key may no longer be valid.

Note: In the case of Certigna Root CA, the signing certificate is not revoked, it is the intermediate CA certificates that are revoked in case of compromise of the private key of the Certigna Root CA.

The "[Cryptographic Key Management Procedure](#)", the "[Incident Management Procedure](#)" and the "Business Continuity Plans" describe the measures implemented.

5.7.4 Business Continuity Capabilities after a Disaster

The various components of the PKI have the necessary means to ensure the continuity of their activities in accordance with the requirements of the CA Certification Policy. CA uses the redundancy of its information systems into several sites and its Business continuity plans to ensure the services continuity.

The measures are described in the "[Business Continuity Plans](#)".

5.8 CA or RA Termination

One or more components of the PKI may have to stop working or to transfer it to another entity. The transfer of activity is defined as:

- The End of the activity of a PKI component having no effect on the validity of certificates issued prior to the transfer in question;
- The resumption of this activity organized by the CA in collaboration with the new entity.

The cessation of activity is defined as the end of the activity of a PKI component influencing the validity of certificates issued prior to the relevant termination.

5.8.1 Transfer of Activity or Cessation of Activity Affecting a Component of the PKI

One or more components of the PKI may have to stop working or to transfer it to another entity. To ensure a constant level of confidence during and after such events, the CA takes the following actions:

- It ensures the continuity of the archive service, especially certificates and registration records;
- It ensures the continuity of the revocation service, in accordance with the availability requirements for its functions under this CP;
- It informs CMs and Subjects if the proposed changes may affect the commitments and that, at least in the period of 1 month;
- It informs application managers listed in Chapter 1.4.1 the principles of the action plan for dealing with the cessation of business or to organize the transfer of activities;
- It carries information to the administrative authorities. In particular, contact of the ANSSI is warned (<https://www.ssi.gouv.fr>). The CA will inform him including any obstacles or additional delay encountered during the process of transfer or retirement.

La « [Procédure de gestion des incidents](#) » et les « [Plans de continuité d'activité](#) » décrivent en détails les dispositions mises en œuvre.

5.8.2 Cessation of Activity Affecting the CA

In the event of termination of total activity, before the CA stops its services, it does the following:

- It informs all the CMs, the Subjects, the other components of the PKI and third parties by email of the cessation of activity. This information will also be relayed directly to the entities and if appropriate their Certification Agent;
- It revokes all certificates it has signed and which are still valid;
- It revokes its certificate;
- It destroys the private key stored in the cryptographic module and the context of the module. Holders of secret (private key and context) are summoned and destroy their secrets. It also prohibits transmitting the key to third parties.

If the CA is bankrupt, it is the commercial court which decides on the follow-up to the company's operations. Nevertheless, if any, CA is committed to supporting the commercial court under the following conditions: before bankruptcy, there is a prior period, generated most of time by several alert procedures or by a legal redress; during this period, CA is committed to preparing for the commercial court, if appropriate, a proposal to transfer digital certificates to another authority with the same level of certification.

The contact identified on the website of the ANSSI (<https://www.ssi.gouv.fr>) is immediately informed in case of cessation of trading of the CA.

The "[Incident Management Procedure](#)", the "[Business Continuity Plans](#)", and the "[Transfer and Cessation Procedure](#)" describe the measures implemented.

6 TECHNICAL SECURITY CONTROLS

6.1 Key Pair Generation and Installation

6.1.1 Key Pair Generation

6.1.1.1 CA Key Pair Generation

This chapter describes the key pair generation context of the CA.

The generation of CA signing key is performed in a secure environment (see Chapter 5). The CA signing keys are generated and implemented in a cryptographic module complies with the requirements of Chapter 10.

The generation of CA signing key is performed under perfectly controlled circumstances by people in trusted roles (see Section 5.2.1), as part of “key ceremony”.

The ceremony took place following a predefined script:

- It takes place under the control of at least two persons with a trusted role within the PKI and in the presence of several witnesses whom at least two are external to the CA and are impartial;
- Witnesses testify in an objective and factual manner, the order of the key ceremony in relation to previously defined script.

The generation of CA signing key is accompanied by the generation of secret share. PKI's secrets are data to manage and manipulate, subsequently to the key ceremony, the private signing keys of the CA to later initiate new cryptographic modules with the signing key of the CA. These secrets are parts of the private key of the CA decomposed per a Shamir's threshold scheme.

After their generation, the secrets are issued to their holders designated in advance and skills to this trusted role by CA. One carrier can hold only one secret of the same CA. Secrets are placed in sealed envelopes, placed in vaults.

Key ceremony scripts and the distribution of secret shares are monitored and documented. The "[Cryptographic Key Management Procedure](#)" and the "[HSM Management Procedure](#)" describe the measures implemented.

6.1.1.2 RA Key Pair Generation

No stipulation.

Note: The RA uses as much as possible the final certificates issued by the CAs covered by this CP to authenticate its personnel and secure its services.

6.1.1.3 Legal or Natural Person Key Pair Generation

The CA SHALL reject a certificate request if the requested Public Key does not meet the requirements set forth in Sections 6.1.5 and 6.1.6 or if it has a known weak Private Key

The CM or the Subject is committed by contract, accepting the TCSU, to:

- generate the private key in a device which meets the requirements of Section 11.
- comply with requirements for the device he uses to generate and store the private key, if it is not provided by the CA.

The CA will take any necessary measures to obtain technical information about the device of the Subjects and reserves the right to reject the certificate request if it is found that this device does not meet these requirements.

In the case where the CA generates the key pair, the generation is carried out in a device that complies with the requirements of Section 11.

6.1.2 Private Key Delivery to Subject

When the CA generates the private key on behalf of the service, server or Subject, the CA, the authentication of the CM or the Subject by the AE is carried out prior to the delivery of the key pair in encrypted format. The private key is transmitted either in the form of a download protected by an activation data defined by the CM or the Subject, or in a device conforming to Section 11 and sent by secure mail to the CM or the Subject, or delivered via a face-to-face with a RA operator, a DRA operator, or a Certification Agent.

If the CA or any of its designated RAs become aware that a CM or Subject Private Key has been communicated to an unauthorized person or an organization not affiliated with the Subject of the Certificate, then the CA SHALL revoke all certificates that include the Public Key corresponding to the communicated Private Key.

6.1.3 Public Key Delivery to Certificate Issuer

If the key pair is not generated by the CA, the certificate request (PKCS # 10 format) containing the service, the server or the Subject's key, is sent to the CA by the CM or the Subject. This request is signed with the private key, which enables the RA to verify its integrity and ensure that the CM or the Subject has the private key associated with the public key transmitted in this request. Once these checks are complete, the RA signs the request and sends it to the CA.

6.1.4 CA public Key Delivery to Relying Parties

The issuance of public key of the CA, which allows all those who need to validate a certificate issued by the CA under the CP, is made by means ensuring integrity and authentication of the public key.

The public key of an intermediate CA is broadcast in a certificate signed by the Certigna Root CA. The public key of the Certigna Root CA is distributed in a self-signed certificate.

These public CA keys and their control values are disseminated and retrieved by the information systems of all certificates acceptors through the Certigna website at <https://www.certigna.com>. See Section 2.2.1.2.

6.1.5 Algorithm type and key sizes

6.1.5.1 Root CA Certificate

- Digest algorithm: SHA-256,
- RSA modulus size (bits): 4096

6.1.5.2 Subordinate CA Certificate

- Digest algorithm: SHA-256,
- RSA modulus size (bits): 4096

6.1.5.3 Legal or Natural Person Certificate

| | |
|--|--|
| CERTIGNA ENTITY CA | <i>Seal for mails/docs/timestamps</i> |
| CERTIGNA ENTITY CODE SIGNING CA | <i>Seal for code signing</i> |
| SERVICES CA | <i>Seal for 2D-DOC</i> |
| WILD CA | <i>Web authentication</i> |
| CERTIGNA IDENTITY CA | <i>Web authentication</i> |
| CERTIGNA IDENTITY PLUS CA | <i>Authentication/signature/encipherment</i> |
| <ul style="list-style-type: none">- Digest algorithm: SHA-256,- RSA modulus size (bits): 2048 | |

| | |
|---|------------------------|
| FR03 | <i>Seal for 2D-DOC</i> |
| <ul style="list-style-type: none">- Digest algorithm: SHA-256,- ECC Curve : NIST P-256 | |

6.1.6 Public Key Parameters Generation and Quality Checking

The parameters and signature algorithms implemented in cryptographic boxes, physical media and software are documented by CA.

The CA confirms that the value of the public exponent is an odd number is superior to 3 and is in the range between $2^{16}+1$ and $2^{256}-1$.

6.1.6.1 CA Key

The key pair generation equipment uses parameters respecting the safety standards corresponding to the key pair.

6.1.6.2 Legal or Natural Person Key

The key pair generation equipment used by the Subject uses parameters respecting the safety standards corresponding to the key pair.

6.1.7 Key Usage Purposes

6.1.7.1 CA Key

The use of the private key of the root CA and associated certificate is exclusively limited to signing the root CA certificate, intermediate CA certificates and ARLs.

The use of the private key of the CA and associated certificate is exclusively limited to signing legal and natural person certificates, CRLs, and OCSP responder certificate.

6.1.7.2 Legal or Natural Person Key

The use of the CM or Subject 's private key and the associated certificate is exclusively limited to the usages defined at chapter 1.5.1. Otherwise, their responsibility could be engaged.

6.2 Private Key Protection and Cryptographic Module Engineering Controls

6.2.1 Security standards and measures for cryptographic modules

6.2.1.1 Cryptographic Module Standards and Controls

The cryptographic module used by the Root CA and CA for the generation and the implementation of their signing keys are compliant with the requirements of the Section 10. These devices are resources exclusively available for CA's servers through a dedicated VLAN. The cryptographic modules used are BULL Trustway Proteccio. The "[HSM Management Procedure](#)" describes the measures implemented.

The CA implements physical and logical safeguards to prevent unauthorized certificate issuance.

6.2.1.2 Device to protect Legal or Natural Person private key

The device used by the CA, the CM or the Subject to protect the private key is compliant with the requirements of the Section 11.

In the case where the CA provides the device to the CM or the Subject, directly or indirectly, CA ensure that:

- The device preparation is controlled securely;
- The device is stored and provided securely;
- The deactivation and reactivation of the device is controlled securely.

6.2.2 Private Key Multi-Person Control

Control of CA signature private key is provided by trusted personnel and with a tool implementing sharing secrets (systems where n operators of m must authenticate, with n at least equal to 2). The "[HSM Management Procedure](#)" and the "[Cryptographic Key Management Procedure](#)" describe the measures implemented.

6.2.3 Private Key Escrow

6.2.3.1 CA Key

The CA private keys are never escrowed.

6.2.3.2 Legal or Natural Person Key

The escrow of private keys is prohibited for all certification authorities except for private keys of Certigna Identity CA encipherment certificates.

| CERTIGNA IDENTITY CA | Encipherment |
|--|--------------|
| Encipherment | |
| Private keys of the subjects are escrowed. | |

6.2.4 Private Key Backup

6.2.4.1 CA Key

The private key of the CA is saved:

- Inside one or several cryptographic modules compliant with the requirements of the Section 10.
- Outside the cryptographic module enciphered by the module and dispatched to several persons in trusted roles.

6.2.4.2 Legal or Natural Person Key

Private keys of the services, servers and Subjects are not the subject of any backup copy of the CA for all certification authorities except for private keys of Certigna Identity CA encipherment certificates.

| CERTIGNA IDENTITY CA | Encipherment |
|--|--------------|
| Encipherment | |
| The sequestered private keys are subjects of backup copies to compliance with the security requirements for the sequestration of the keys. | |

6.2.5 Private key archival

6.2.5.1 CA Key

The private key of the CA is never archived.

6.2.5.2 Legal or Natural Person Key

Private keys of services, servers or Subjects are not archived. For private keys generated on cryptographic module, it is technically impossible to make a copy of these keys outside the HSM.

6.2.6 Private Key Transfer into or from a Cryptographic Module

6.2.6.1 CA Key

The CA private keys are generated in the cryptographic module. As described in Section 6.2.4, the CA private keys are exportable / importable from the cryptographic module in encrypted form.

6.2.6.2 Legal or Natural Person Key

The services, servers and Subjects private keys are generated under the responsibility of the operator of RA, DRA, Certification Agent or Subject.

6.2.7 Private Key Storage on Cryptographic Module

6.2.7.1 CA Key

The root CA private key is generated in a cryptographic module described in chapter 6.2.1 and is exported in accordance with the requirements of chapter 6.2.4 in order to be continuously taken offline. The key is reconstituted in the cryptographic module to allow the annual generation of ARLs or the creation of a new intermediate authority, then deleted from the module once the operation is complete. The "[HSM Management Procedure](#)" and the "[Cryptographic Key Management Procedure](#)" describe the measures implemented.

6.2.7.2 Legal or Natural Person Key

The services, servers and Subjects private keys are generated and stored in a device compliant with the requirements from the Section 11, if applicable.

6.2.8 Activating Private Keys

6.2.8.1 CA Key

Activation of CA private key in the cryptographic module is controlled via activation data (see Section 6.4) and involves two people with a trusted role within PKI. The "[HSM Management Procedure](#)" and the "[Cryptographic Key Management Procedure](#)" describe the measures implemented.

6.2.8.2 Legal or Natural Person Key

Activation of key pairs is controlled by activation data (cf. chapter 6.4) which are used by the key pair hardware or software container.

6.2.9 Deactivating Private Keys

6.2.9.1 CA Key

The cryptographic module resists physical attacks by erasing the CA private keys. The module can detect the following physical attacks: Opening the device, removing or forcing.

6.2.9.2 Legal or Natural Person Key

The method of disabling the private key depends on the cryptographic module used by the CM or the Subject.

6.2.10 Destroying Private Keys

6.2.10.1 CA Key

End of life of a CA private key, normal or anticipate (revocation), the key and the secrets of shares to reconstruct are systematically destroyed. A record of key and secret destruction is established at the end of this procedure. The measures implemented are described in the ["Procedure for managing cryptographic keys"](#).

6.2.10.2 Legal or Natural Person Key

The CM or the Subject is the sole owner of the private key and is the only one who can destroy it (deletion of the key or physical destruction of the device).

6.2.11 Cryptographic Module Capabilities

6.2.11.1 CA Key

The assessment level of the CA cryptographic module is specified in Section 10.

6.2.11.2 Legal or Natural Person Key

The assessment level of the device used, if applicable, by the CM or the Subject, is specified in Section 10.

6.3 Other Aspects of Key Pair Management

6.3.1 Public Key Archival

The public keys of the CA and of the legal or natural persons are stored within the archival of relevant certificates.

6.3.2 Certificate Operational Periods and Key Pair Usage Periods

6.3.2.1 CA Key Pair and Certificate

For CERTIGNA PKI, the validity period of Root CA certificate is 20 years, and 18 years for intermediate CA.

The end of validity of a CA certificate is later than the end of life of the certificates it issues.

6.3.2.2 Legal or Natural Person Key Pair and Certificate

| Certificate | OID | Lifetime |
|--|--------------------------|----------------------|
| CERTIGNA ENTITY CA | | |
| Seal for mails and documents | 1.2.250.1.177.2.6.1.1.1 | 1 to 3 years maximum |
| Seal for mails and documents | 1.2.250.1.177.2.6.1.4.1 | 1 to 3 years maximum |
| Seal for mails and documents | 1.2.250.1.177.2.6.1.42.1 | 1 to 3 years maximum |
| Seal for mails and documents | 1.2.250.1.177.2.6.1.41.1 | 1 to 3 years maximum |
| Seal for mails and documents | 1.2.250.1.177.2.6.1.7.1 | 1 to 3 years maximum |
| Seal for mails and documents | 1.2.250.1.177.2.6.1.8.1 | 1 to 3 years maximum |
| Seal for timestamps | 1.2.250.1.177.2.6.1.9.1 | 1 to 3 years maximum |
| Seal for timestamps | 1.2.250.1.177.2.6.1.3.1 | 1 to 5 years maximum |
| Seal for timestamps | 1.2.250.1.177.2.6.1.6.1 | 1 to 5 years maximum |
| CERTIGNA ENTITY CODE SIGNING CA | | |
| Seal for code signing | 1.2.250.1.177.2.8.1.1.1 | 1 to 3 years maximum |
| Seal for code signing | 1.2.250.1.177.2.8.1.2.1 | 1 to 3 years maximum |
| FR03 | | |
| Seal for 2D-DOC | 1.2.250.1.177.2.2.1.1 | 1 to 3 years maximum |
| CERTIGNA SERVICES CA | | |
| Server authentication | 1.2.250.1.177.2.5.1.1.1 | 398 days maximum |
| Client authentication | 1.2.250.1.177.2.5.1.2.1 | 398 days maximum |
| Server/client authentication | 1.2.250.1.177.2.5.1.3.1 | 398 days maximum |
| Server/client authentication | 1.2.250.1.177.2.5.1.4.1 | 398 days maximum |
| CERTIGNA WILD CA | | |
| Server/client authentication | 1.2.250.1.177.2.7.1.1.1 | 398 days maximum |
| Wildcard Server/client authentication | 1.2.250.1.177.2.7.1.2.1 | 398 days maximum |
| CERTIGNA IDENTITY CA | | |
| Encipherment | 1.2.250.1.177.2.3.1.1.1 | 1 to 3 years maximum |
| Encipherment | 1.2.250.1.177.2.3.1.3.1 | 1 to 5 years maximum |
| Authentication & signature | 1.2.250.1.177.2.3.1.2.1 | 1 to 3 years maximum |
| Authentication & signature | 1.2.250.1.177.2.3.1.4.1 | 1 to 5 years maximum |
| CERTIGNA IDENTITY PLUS CA | | |
| Authentication & signature | 1.2.250.1.177.2.4.1.1.1 | 1 to 3 years maximum |
| Authentication | 1.2.250.1.177.2.4.1.2.1 | 1 to 3 years maximum |
| Signature | 1.2.250.1.177.2.4.1.3.1 | 1 to 3 years maximum |
| Authentication & signature | 1.2.250.1.177.2.4.1.4.1 | 1 to 5 years maximum |
| Authentication | 1.2.250.1.177.2.4.1.5.1 | 1 to 5 years maximum |
| Signature | 1.2.250.1.177.2.4.1.6.1 | 1 to 5 years maximum |
| Authentication & signature | 1.2.250.1.177.2.4.1.7.1 | 1 to 3 years maximum |
| Authentication & signature | 1.2.250.1.177.2.4.1.8.1 | 1 to 3 years maximum |

6.4 Activation Data

6.4.1 Activation Data Generation and Installation

6.4.1.1 Generation and Installation of Activation Data Corresponding to the Private Key of the CA

Generation and installation of activation data of the cryptographic module of the CA are performed during the initialization and customization phase of the module (see chapter 6.1.1).

The "[HSM Management Procedure](#)" and the "[Cryptographic Key Management Procedure](#)" describe the measures implemented.

6.4.1.2 Generation and installation of activation data corresponding to the private key of the subject

In the case where the key pair is generated by the CA, activation data are transmitted:

- If the device is a token, through the client space after authentication of the Subject;
- If the device is a cryptographic module with different form of activation data (cards, secrets, etc.) through different communication channels (email, mail, phone/SMS) and at different periods of time.

EN 319 411-2 QCP-n

EN 319 411-2 QCP-I

- In the case of another type of hardware or software equipment, via a communication channel different from the platform on which the certificate is proposed (mail, mail, telephone / SMS).

6.4.2 Activation Data Protection

6.4.2.1 Protection of Activation Data Corresponding to the CA Private Key

Activation data are directly provided to secret holders during the key ceremonies. Their storage conditions ensure their availability, integrity and confidentiality. The secrets are stored in devices with limited access, in secure envelopes to detect any unauthorized opening and traced. The "[HSM Management Procedure](#)" and the "[Materiel Management Procedure](#)" describe the measures implemented.

6.4.2.2 Protection of Activation Data Corresponding to Private Key of Legal or Natural Person

If the key pair is generated by the RA, it also generates the activation data that are sent as described at chapter 6.4.1. These activation data are not backed up by RA and are modified by the Subject when accepting the certificate or in case of a cryptographic module, after hardware reception.

6.4.3 Other Aspects of Activation Data

No stipulation.

6.5 Computer Security Controls

6.5.1 Specific Computer Security Technical Requirements

A minimum level of safety assurance on the computer systems of persons in trusted role is ensured by:

- Strong identification and authentication of user for system access (physical access control to enter in the room + logic control by id / password or certificate to access the system);
- Management of user sessions (logout after idle time, file access controlled by role and user name);
- User rights management (to implement the access control policy defined by the CA, to implement the principles of least privilege, multiple controls and separation of roles);
- Protection against computer viruses and other forms of compromise or unauthorized software and software updates using the firewall;
- Manage user accounts, including changes and the rapid removal of access rights;
- Network protection against intrusion of an unauthorized person using the firewall;
- Secure inter-sites communication (tunnel IPSec VPN) ;
- Audit Functions (non-repudiation and nature of the actions performed).

Monitoring devices and audit procedures of the system settings, including routing elements, are in place. The "[Safety Policy](#)", the "[Logical Access Control Policy](#)", the "[Security Charter](#)", the "[Firewall Management Procedure](#)" describe the measures implemented.

6.5.2 Computer Security Rating

No stipulation.

6.6 Life Cycle Technical Controls

6.6.1 System Development Controls

According to the risk analysis conducted, during the design of any new development project, an analysis of security is achieved and approved by the CA Security Committee. The configuration of CA systems and any changes and upgrades are documented. The development is done in a controlled and secured environment requiring a high level of authorization.

To enable its prospects or future customers to test some of their dematerialized trading applications, CA has set up a test CA issuing certificates identical in all respects to the production certificates (only the certificate issuer is different). This test CA has its own private key. The public key certificate is self-signed. These certificates are used for testing purposes only.

The CERTIGNA solutions are tested in a development/test environment before being used in the production environment. Production and development environments are separated.

The description of the evolution context of the PKI is defined in the "[Procedure for updating the technical platform](#)". Developments of the modules related to the exploitation of the components of the PKI are carried out in accordance with the rules and instructions enacted in the "[Development Guide](#)".

6.6.2 Security Management Controls

Any significant change to a system or a component of the PKI is documented and reported to the CA for validation.

6.6.3 Life Cycle Security Controls

No stipulation.

6.7 Network Security Controls

Interconnection to public networks is protected by security gateways configured to accept only the necessary protocols to the desired operation by CA.

The CA guarantees that the components of the local network are kept in a physically secure environment and their configurations are periodically audited for compliance with the requirements specified by the CA.

The "[Firewall Management Procedure](#)", the "[Monitoring Management Procedure](#)" and the "[Logical Access Control Policy](#)" describe the measures implemented.

6.8 Time-stamping

To ensure synchronization between different dating of events, the various components of the PKI synchronize their clocks with respect to a reliable source of UTC time.

The "[Clocks Synchronization Procedure](#)" describes the measures implemented.

7 CERTIFICATE AND CRL PROFILES

The certificates and CRLs generated by the CA comply with ITU-T Recommendation X.509 v3 standard, RFC 5280 and applicable requirements from EN 319 412 ETSI specifications.

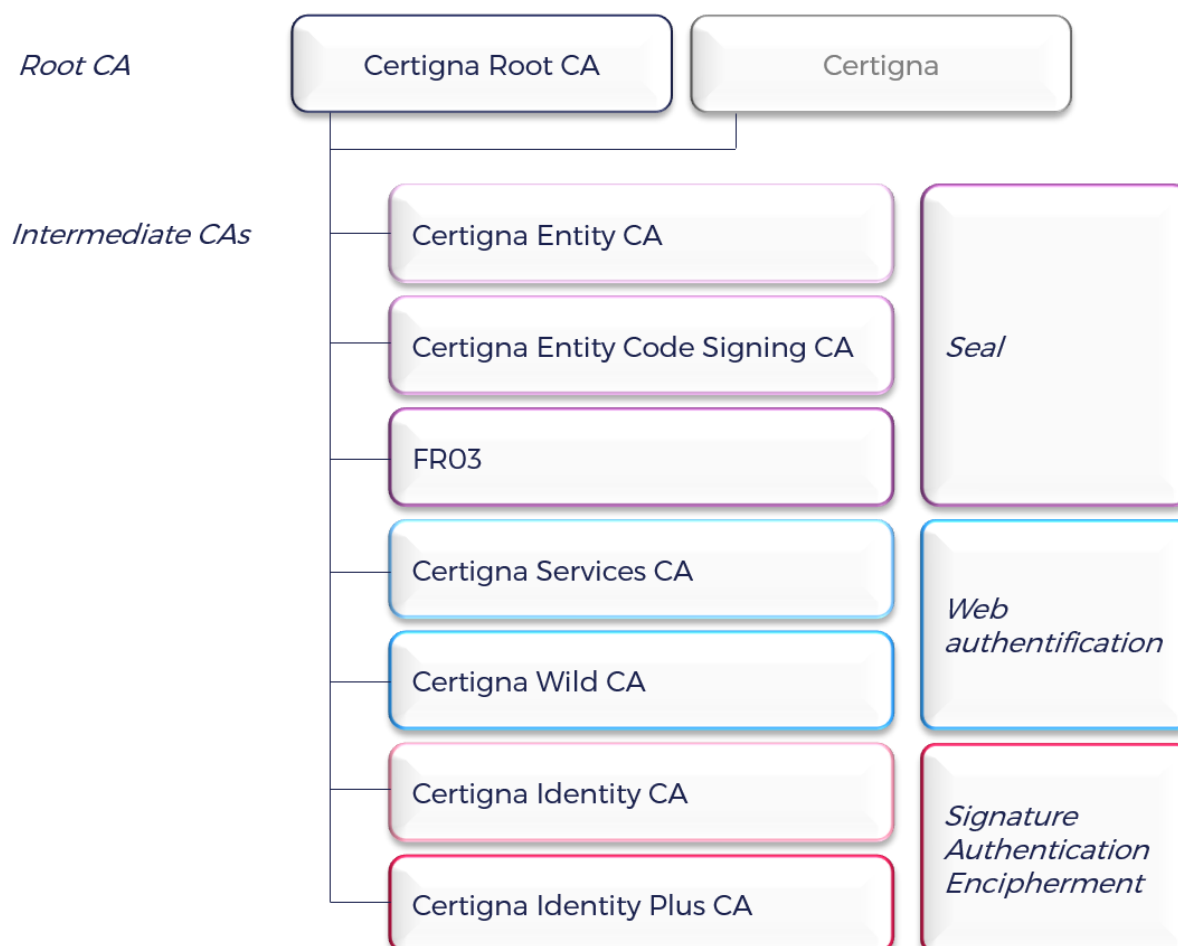
CERTIGNA has two root CAs:

- The old root CA "Certigna";
- -The new root CA "Certigna Root CA" planned to replace the old root "Certigna".

The intermediate CA certificates covered by this CP have been signed by the two root CAs in order to ensure the transition of certificates from the old root to the new one.

7.1 Trusted Hierarchy

The trusted hierarchy is composed with following certificates and authorities:



7.2 Profile of Root CA Certificates

7.2.1 Basic fields

| Fields | Certigna Root CA | Certigna |
|-------------------------|--|--|
| Version | V3 | |
| Serial Number | 00 CA E9 1B 89 F1 55 03 0D A3 E6 41 6D C4 E3 A6 E1 | 00 FE DC E3 01 0F C9 48 FF |
| Signature | SHA-256 RSA 4096 | SHA-128 RSA 2048 |
| Subject Public Key Info | RSA 4096 bits | RSA 2048 bits |
| Validity | Certificate activation and expiration dates and times | |
| Issuer DN | CN = Certigna Root CA OU = 0002 48146308100036 O = DHIMYOTIS C = FR | CN = Certigna O = DHIMYOTIS C = FR |
| Subject DN | CN = Certigna Root CA OU = 0002 48146308100036 O = DHIMYOTIS C = FR | CN = Certigna O = DHIMYOTIS C = FR |

7.2.2 Extensions

| Extensions | Critical | Certigna Root CA | Certigna |
|-------------------------|----------|--|------------------------------------|
| SKI | No | CA public key identifier | |
| AKI | No | Root CA public key identifier | |
| Certificate Policies | No | CPS= https://www.certigna.fr/autorites/ | |
| CRL Distribution Points | No | URL= http://crl.certigna.fr/certignarootca.crl URL= http://crl.dhimyotis.com/certignarootca.crl | |
| Netscape Cert type | No | | SSL CA SMIME CA Signature CA |
| Basic Constraints | Yes | cA = TRUE | |
| Key Usage | Yes | Certificate signing CRL signing | |

7.3 Profile of Intermediate CA certificates for Legal Person

| Authority | | ENTITY CA | ENTITY CODE SIGNING CA | | FR03 | SERVICES CA | WILD CA |
|----------------------------|------|---|--------------------------|------|----------------------|---------------------------|---------|
| Fields | | Description | | | | | |
| Version | | V3 | | | | | |
| Serial Number | | Unique serial number | | | | | |
| Signature | | CA signing algorithm identifier / SHA-256 RSA 4096 | | | | | |
| Subject Public Key Info | | RSA 4096 | | | | | |
| Validity | | 18 years | | | | | |
| Issuer DN | CN = | Certigna Root CA | | | | | |
| | OU = | 0002 48146308100036 | | | | | |
| | O = | DHIMYOTIS | | | | | |
| | C = | FR | | | | | |
| Subject DN | CN = | Certigna Entity CA | Certigna Code Signing CA | FR03 | Certigna Services CA | Certigna Wild CA | |
| | OI = | NTRFR-0002 48146308100036 | | | | NTRFR-0002 48146308100036 | |
| | OU = | 0002 48146308100036 | | | | | |
| | O = | DHIMYOTIS | | | | | |
| | C = | FR | | | | | |
| SKI | No | CA public key identifier | | | | | |
| AKI | No | Root CA Public key identifier | | | | | |
| Certificate Policies | No | OID=1.2.250.1.177.2.0.1.1 CPS=https://www.certigna.fr/autorites/ | | | | | |
| Authority Informat. Access | No | calssuers=http://autorite.certigna.fr/certignarootca.der calssuers= http://autorite.dhimyotis.com/certignarootca.der | | | | | |
| CRL Distribution Points | No | URL=http://crl.certigna.fr/certignarootca.crl URL=http://crl.dhimyotis.com/certignarootca.crl | | | | | |
| Basic Constraints | Yes | cA = TRUE PathLengthConstraint = 0 | | | | | |
| Key Usage | Yes | Certificate signature CRL signature | | | | | |

7.4 Profile of Intermediate CA certificates for Legal Person

| Authority | | IDENTITY CA | IDENTITY PLUS CA |
|----------------------------|----------------------------|---|---------------------------|
| Fields | | Description | |
| Version | | V3 | |
| Serial Number | | Unique serial number | |
| Signature | | CA signing algorithm identifier / SHA-256 RSA 4096 | |
| Subject Public Key Info | | RSA 4096 | |
| Validity | | 18 years | |
| Issuer DN | CN = OU = O = C = | Certigna Root CA 0002 48146308100036 DHIMYOTIS FR | |
| Subject DN | CN = | Certigna Identity CA | Certigna Identity Plus CA |
| | OI = | NTRFR-48146308100036 | |
| | OU = | 0002 48146308100036 | |
| | O = | DHIMYOTIS | |
| | C = | FR | |
| SKI | No | CA public key identifier | |
| AKI | No | Root CA Public key identifier | |
| Certificate Policies | No | OID=1.2.250.1.177.2.0.1.1 CPS=https://www.certigna.fr/autorites/ | |
| Authority Informat. Access | No | calssuers=http://autorite.certigna.fr/certignarootca.der calssuers= http://autorite.dhimyotis.com/certignarootca.der | |
| CRL Distribution Points | No | URL=http://crl.certigna.fr/certignarootca.crl URL=http://crl.dhimyotis.com/certignarootca.crl | |
| Basic Constraints | Yes | cA = TRUE PathLengthConstraint = 0 | |
| Key Usage | Yes | Certificate signature CRL signature | |

7.5 Profiles of end-entity certificates

7.5.1 Profile of Certificates issued by Certigna Entity CA

7.5.1.1 Basic Fields

| CERTIGNA ENTITY CA | | | | | | | | | | |
|-------------------------|------|--|----------------------|--|------------|------------|---------------------|----------|----------|------------|
| Usage | | Seal for mails and documents | | | | | Seal for timestamps | | | |
| OID 1.2.250.1.177.2 | | .6.1.1.1 | .6.1.7.1 | .6.1.8.1 | .6.1.4.1 | .6.1.41.1 | .6.1.42.1 | .6.1.3.1 | .6.1.9.1 | .6.1.6.1 |
| ETSI 319 411 | | LCP | QCP-I | QCP-I-psd2 | QCP-I-qscd | QCP-I-qscd | | LCP | QCP-I | QCP-I-qscd |
| RGS v2 | | RGS * | | | RGS ** | | RGS ** | RGS * | | RGS ** |
| Fields | | Description | | | | | | | | |
| Version | | V3 | | | | | | | | |
| Serial Number | | Unique serial number output from a CSPRNG (Cryptographically secure pseudorandom number generator) / Between 128 and 160 bits | | | | | | | | |
| Signature | | CA signing algorithm identifier / SHA-256 RSA 4096 | | | | | | | | |
| Subject Public Key Info | | RSA 2048 | | | | | | | | |
| Validity | | 1 to 3 years | | | | | 1 to 5 years | | | |
| Issuer DN | CN = | Certigna Entity CA | | | | | | | | |
| | OI = | NTRFR-48146308100036 | | | | | | | | |
| | OU = | 0002 48146308100036 | | | | | | | | |
| | O = | DHIMYOTIS | | | | | | | | |
| | C = | FR | | | | | | | | |
| Subject DN | SN = | A series of characters consisting in part of a random value for uniqueness | | | | | | | | |
| | CN = | <Entity identity> - < Name of the service > | | | | | | | | |
| | OU = | ICD + identifier of the entity that owns the service registered in accordance with the laws and regulations | | | | | | | | |
| | OI = | Info. proof of identity | ACN Id. ¹ | Information on the proof of identity of the entity | | | | | | |
| | O = | Name of the entity linked to the seal service | | | | | | | | |
| | C = | Country of the competent authority to which the entity is officially registered | | | | | | | | |

¹The OrganizationIdentifier (OI) field is used to provide the registration number of the entity attached to the certificate. In the case where this number is issued by the NCA, this field will be composed as follows:

- "PSD" as 3 character legal person identity type reference;
- 2 character country code representing the NCA country;
- hyphen-minus "-";
- 2-8 character NCA identifier without country code;
- hyphen-minus "-"; and
- PSP identifier (authorization number as specified by the NCA. There are no restrictions on the characters used).

7.5.1.2 Extensions

| CERTIGNA ENTITY CA | | | | | | | | | | |
|--------------------------|---------|--|--------------|------------|------------|------------|---------------------|-------------------------------|--------------|------------|
| Usage | | Seal for mails and documents | | | | | Seal for timestamps | | | |
| OID 1.2.250.1.177.2 | | .6.1.1.1 | .6.1.7.1 | .6.1.8.1 | .6.1.4.1 | .6.1.41.1 | .6.1.42.1 | .6.1.3.1 | .6.1.9.1 | .6.1.6.1 |
| ETSI 319 411 | | LCP | QCP-I | QCP-I-psd2 | QCP-I-qscd | QCP-I-qscd | | LCP | QCP-I | QCP-I-qscd |
| RGS v2 | | RGS * | | | RGS ** | | RGS ** | RGS * | | RGS ** |
| Extension | Crit. | Description | | | | | | | | |
| Authority Key Identifier | No | CA public key identifier | | | | | | | | |
| Subject Key Identifier | N | Public key identifier of seal service | | | | | | | | |
| Subject Alt. Name | No | Nom RFC822= seal service email address | | | | | | | | |
| Key Usage | Yes | Digital signature / Non repudiation | | | | | | | | |
| Extended Key Usage | No/ Yes | Email Protection [Non critique] | | | | | | id-kp-timeStamping [Critique] | | |
| Certificate Policies | No | .6.1.1.1 | .6.1.7.1 | .6.1.8.1 | .6.1.4.1 | .6.1.41.1 | .6.1.42.1 | .6.1.3.1 | .6.1.9.1 | .6.1.6.1 |
| | | CPS= https://www.certigna.fr/autorites/ | | | | | | | | |
| CRL Distribut. Points | No | URL=http://crl.certigna.fr/entityca.crl URL=http://crl.dhimyotis.com/entityca.crl | | | | | | | | |
| Authority Info. Access | No | calssuers=http://autorite.certigna.fr/entityca.der calssuers=http://autorite.dhimyotis.com/entityca.der URL=http://entityca.ocsp.certigna.fr URL=http://entityca.ocsp.dhimyotis.com | | | | | | | | |
| Basic Constraints | No | cA = FALSE | | | | | | | | |
| QC Statement | No | | QcCompliance | | | | | | QcCompliance | |
| | | | | | QcSSCD | | | | | QcSSCD |
| | | | QcEuPDS | | | | | | QcEuPDS | |
| | | | QcType 2 | | | | | | QcType 2 | |
| | | | | PSD2QcType | | | | | | |

7.5.2 Profile of Certificates issued by Certigna Entity Code Signing CA

7.5.2.1 Basic Fields

| CERTIGNA ENTITY CODE SIGNING CA | | |
|---------------------------------|--|---|
| Usage | Seal for code signing | |
| OID 1.2.250.1.177.2 | .8.1.1.1 Seal for code signing | .8.1.2.1 |
| ETSI 319 411 | LCP | QCP-I-qscd |
| RGS v2 | RGS * | RGS * |
| Fields | Description | |
| Version | V3 | |
| Serial Number | Unique serial number output from a CSPRNG (Cryptographically secure pseudorandom number generator) / Between 128 and 160 bits | |
| Signature | CA signing algorithm identifier / SHA-256 RSA 4096 | |
| Subject Public Key Info | RSA 2048 | |
| Validity | 1 to 3 years | |
| Issuer DN | CN = Certigna Entity Code Signing CA OI = NTRFR-48146308100036 OU = 0002 48146308100036 O = DHIMYOTIS C = FR | |
| Subject DN | SN = | A series of characters consisting in part of a hazard for uniqueness |
| | CN = | <Entity identity> - < Name of the service > |
| | OI = | Information on the proof of identity of the entity |
| | OU = | ICD + identifier of the entity that owns the service registered in accordance with the laws and regulations |
| | O = | Name of the entity linked to the seal service |
| | C = | Country of the competent authority to which the entity is officially registered |

7.5.2.2 Extensions

| CERTIGNA ENTITY CODE SIGNING CA | | | |
|---------------------------------|-----------------------|--|-----------------------------|
| Usage | Seal for code signing | | |
| OID 1.2.250.1.177.2 | .8.1.1.1 | | .8.1.2.1 |
| ETSI 319 411 | LCP | | QCP-I-qscd |
| RGS v2 | RGS * | | RGS * |
| Fields | Critical | Description | |
| Authority Key Identifier | No | CA public key identifier | |
| Subject Key Identifier | No | Public key identifier of seal service | |
| Key Usage | Yes | Digital signature | |
| Extended Key Usage | No | id-kp-codeSigning | |
| Certificate Policies | No | OID=1.2.250.1.177.2.8.1.1.1 | OID=1.2.250.1.177.2.8.1.2.1 |
| | | CPS= https://www.certigna.fr/autorites/ | |
| CRL Distribut. Points | No | URL= http://crl.certigna.fr/entitycsca.crl URL= http://crl.dhimyotis.com/entitycsca.crl | |
| Authority Info. Access | No | caIssuers= http://autorite.certigna.fr/entitycsca.der caIssuers= http://autorite.dhimyotis.com/entitycsca.der URL= http://entitycsca.ocsp.certigna.fr URL= http://entitycsca.ocsp.dhimyotis.com | |
| Basic Constraints | No | cA = FALSE | |
| QC Statement | | | QcCompliance |
| | | | QcSSCD |
| | | | QcEuPDS |
| | | | QcType 2 (eseal) |

7.5.3 Profile of Certificates issued by FR03

7.5.3.1 Basic Fields

| FR03 | | |
|-------------------------|--|---|
| Usage | Seal for 2D-DOC signing | |
| OID 1.2.250.1.177.2 | 2.1.1 | |
| ETSI 319 411 | NCP + | |
| RGS v2 | RGS * | |
| Fields | Description | |
| Version | V3 | |
| Serial Number | Unique serial number output from a CSPRNG (Cryptographically secure pseudorandom number generator) / Between 128 and 160 bits | |
| Signature | CA signing algorithm identifier / SHA-256 RSA 4096 | |
| Subject Public Key Info | NIST P-256 | |
| Validity | 1 to 3 years | |
| Issuer DN | CN = | FR03 |
| | OU = | 0002 48146308100036 |
| | O = | DHIMYOTIS |
| | C = | FR |
| Subject DN | CN = | XXXY ¹ |
| | OU = | ICD + identifier of the entity that owns the service registered in accordance with the laws and regulations |
| | O = | Name of the entity linked to the seal service |
| | C = | Country of the competent authority to which the entity is officially registered |

¹ Name coded on 4 uppercase alphanumeric characters and composed of a customer code on the first 3 characters and the chronological order number of the seal certificate (from 0 to 9 then from A to Z).

7.5.3.2 Extensions

| FR03 | | |
|--------------------------|----------|--|
| Usage | | Seal for 2D-DOC signing |
| OID 1.2.250.1.177.2 | | 2.1.1 |
| ETSI 319 411 | | NCP + |
| RGS v2 | | RGS * |
| Fields | Critical | Description |
| Authority Key Identifier | No | CA public key identifier |
| Subject Key Identifier | No | Public key identifier of seal service |
| Subject Alt. Name | No | Document type (OID ¹ + Description) |
| Key Usage | Yes | Digital signature / Non repudiation |
| Extended Key Usage | No | anyExtendedKeyUsage |
| Certificate Policies | No | OID=1.2.250.1.177.2.2.1.1 |
| | | CPS= https://www.certigna.fr/autorites/ |
| CRL Distribut. Points | No | URL= http://crl.certigna.fr/2ddoc.crl URL= http://crl.dhimyotis.com/2ddoc.crl |
| Authority Info. Access | No | calssuers= http://autorite.certigna.fr/2ddoc.der calssuers= http://autorite.dhimyotis.com/2ddoc.der URL= http://2ddoc.ocsp.certigna.fr URL= http://2ddoc.ocsp.dhimyotis.com |
| Basic Constraints | No | cA = FALSE |

¹OID 1.2.250.1.177.101.6 Internal to Certigna used to designate the type of Visible Electronic Seal signed by the certificate
Description aligned with the nomenclature proposed by the ANTS barcode technical specifications

7.5.4 Profile of Certificates issued by Certigna Services CA

7.5.4.1 Basic Fields

| CERTIGNA SERVICES CA | | | | |
|-------------------------|------------------------------------|--|--|---|
| Usage | | Server authentication | Client authentication | Server/Client authentication |
| OID 1.2.250.1.177.2 | | .5.1.1.1 | .5.1.2.1 | .5.1.3.1 .5.1.4.1 |
| ETSI 319 411 | | OVCP | OVCP | QCP-w QCP-w |
| RGS v2 | | RGS * | RGS * | |
| Fields | | Description | | |
| Version | | V3 | | |
| Serial Number | | Unique serial number output from a CSPRNG. Between 128 and 160 bits | | |
| Signature | | CA signing algorithm identifier / SHA-256 RSA 4096 | | |
| Subject Public Key Info | | RSA 2048 | | |
| Validity | | 398 days maximum | | |
| Issuer DN | CN = OU = OI = O = C = | Certigna Services CA 0002 48146308100036 NTRFR-48146308100036 DHIMYOTIS FR | | |
| Subject DN | Serial Number | Series of characters consisting of a random value | identifier of the entity linked to the server | |
| | Common Name | One FQDN of the SAN Extension | | |
| | Organization Identifier | | | Identifier provided by NCA ¹ |
| | Organization Unit Name | ICD + identifier of the entity linked to the server | | |
| | Organization | Name of the entity linked to the server | | |
| | Street Address | | N° and street of entity's domiciliation (2.5.4.9) | |
| | Locality Name | City or town of entity's domiciliation (2.5.4.7) | | |
| | Postal Code | | Postal code of entity's domiciliation (2.5.4.17) | |
| | State or Province Name | | State or province of entity's domiciliation (2.5.4.8) | |
| | Country Name | Country of entity's domiciliation | | |
| | Business Category | | Business category of the entity (2.5.4.15) | |
| | Jurisd. Locality Name | | City or town of the entity jurisdiction (if applicable) | |
| | Jurisd. State/Prov. Name | | State or province of the entity jurisdiction (if applic. | |
| | Jurisd. Country Name | | Country of the entity jurisd. (1.3.6.1.4.1.311.60.2.1.3) | |

7.5.4.2 Extensions

| CERTIGNA SERVICES CA | | | | |
|---|-------|--|-----------------------------------|--|
| Usage | | Server authentication | Client authentication | Server/Client authentication |
| OID 1.2.250.1.177.2 | | .5.1.1.1 | .5.1.2.1 | .5.1.3.1 |
| ETSI 319 411 | | OVCP | OVCP | QCP-w |
| RGS v2 | | RGS * | RGS * | |
| Extension | Crit. | Description | | |
| Authority Key Ident. | No | CA public key identifier | | |
| Subject Key Ident. | No | Public key identifier of the server | | |
| Subject Alt. Name | No | FQDN of domains to protect. « _ » character is not present in any dNSName entry | | |
| Key Usage | Yes | Digital sign. / Key Enciph. | Digital signature | Digital signature / Key Encipherment |
| Extended Key Usage | No | id-kp-serverAuth | id-kp-clientAuth | id-kp-serverAuth / id-kp-clientAuth |
| Certificate Policies | No | .5.1.1.1 2.23.140.1.2.2 (OVCP) | .5.1.2.1 2.23.140.1.2.2 (OVCP) | .5.1.3.1 0.4.0.194112.1.4 (QCP-w) 2.23.140.1.1 (EV Guidelines) |
| | | CPS= https://www.certigna.fr/autorites/ | | |
| CRL Distribut. Points | No | URL= http://crl.certigna.fr/servicesca.crl URL= http://crl.dhimyotis.com/servicesca.crl | | |
| Authority Info. Access | No | calssuers= http://autorite.certigna.fr/servicesca.der calssuers= http://autorite.dhimyotis.com/servicesca.der URL= http://servicesca.ocsp.certigna.fr URL= http://servicesca.ocsp.dhimyotis.com | | |
| Basic Constraints | No | cA = FALSE | | |
| Cabf Organization Identifier 2.23.140.3.1 | No | | | Information about entity ² |
| Certif. Transparency | No | List of SCTs. <i>Only for certificates containing one or more FQDNs.</i> | | |
| QC Statement | No | | QcCompliance | QcCompliance |
| | | | QcEuPDS | QcEuPDS |
| | | | QcType 3 (web) | QcType 3 (web) |
| | | | | PSD2QcType ³ |

¹The OrganizationIdentifier (OI) field is used to provide the registration number of the entity attached to the certificate. In the case where this number is issued by the NCA, this field will be composed as follows:

- "PSD" as 3 character legal person identity type reference;
- 2 character country code representing the NCA country;
- hyphen-minus "-";
- 2-8 character NCA identifier without country code;
- hyphen-minus "-"; and
- PSP identifier (authorization number as specified by the NCA. There are no restrictions on the characters used).

Example: the "OI" field containing this character series "PSDFR-APCR-123456789" means a certificate issued to a PSP whose registration number is 123456789 and whose authorization is provided by a French NCA which is the Prudential Supervisory and resolution Authority whose identifier is "FR-APCR". Other examples can include use of non-alphanumeric characters such as "PSDBE-NBB-1234.567.890" and "PSDFI-FINFSA-1234567-8" and "PSDMT-MFSA-A 12345" (note space character after "A").

Note: PSP Identifier can contain prefix, followed by colon ":", including type of institution, as listed in PSD2 where needed to ensure uniqueness (i.e. where there are numbering schemes for different types of institutions with the possibility of the same number being allocated to different institutions). This prefix would then consist of one of the following strings, followed by the ":" character:

- Credit institution - CI
- Payment institution - PI
- Electronic money institution (or e-money institution) - EMI
- Account information service provider exempted under Article 33 of PSD2 – RAISP

²Information about entity under the following form:

registrationSchemeIdentifier = NTR / VAT / PSD

registrationCountry = Country of entity's domiciliation

registrationStateOrProvince = State or province of the entity jurisdiction (if applicable)

registrationReference = A unique identifier assigned to a Legal Entity

³PSD2QcType content:

- o rolesOfPSP {
 - roleOfPspOid = One or more of the following values:
 - 0.4.0.19495.1.1 (*PSP_AS*)
 - 0.4.0.19495.1.2 (*PSP_PI*)
 - 0.4.0.19495.1.3 (*PSP_AI*)
 - 0.4.0.19495.1.4 (*PSP_IC*)
 - roleOfPspName = One or more of the following values:
 - PSP_AS (Account Servicing Payment Service Provider)
 - PSP_PI (Payment Initiation Service Provider)
 - PSP_AI (Account Information Service Provider)
 - PSP_IC (Payment Service Provider issuing card-based payment instruments)
- o nCAName = Name of the NCA in English
- o nCAId = NCA identifier



Note: The attributes of the subject present in the DN of the final certificates do not contain only metadata such as '.', '-', and ' ' (i.e. space) characters, and/or any other indication that the value is absent, incomplete, or not applicable. Attributes within the subject other than those listed in CA/Browser Forum “Baseline Requirements” contain information that has been verified by the CA.

7.5.4.3 Pre-certificates

As part of the implementation of the requirements of the RFC 6962 about « Certificate Transparency », the CA issues pre-certificates. These pre-certificates are not considered to be a “certificate” subjected to the requirements of RFC 5280 and to this CP, and are used only for obtaining SCTs to be included in the extension of certificates issued and containing FQDN. We invite you to consult RFC 6962 for more information on this plan. The SCTs are collected from the following logs:

- mammoth.ct.comodo.com
- ct.googleapis.com/logs/argon20XX (where 20XX is the expiry year of the certificate)
- yeti20XX.ct.digicert.com (where 20XX is the expiry year of the certificate)
- ct.cloudflare.com/logs/nimbus20XX (where 20XX is the expiry year of the certificate)

7.5.5 Profile of Certificates issued by Certigna Wild CA

7.5.5.1 Basic Fields

| CERTIGNA WILD CA | | |
|-------------------------|---|---|
| Usage | multi-domains Server/client authentication | Wildcard multi-domains Server/client authentication |
| OID 1.2.250.1.177.2 | .7.1.1.1 | .7.1.2.1 |
| ETSI 319 411 | LCP | LCP |
| RGS v2 | | |
| Fields | Description | |
| Version | V3 | |
| Serial Number | Unique serial number output from a CSPRNG. Between 128 and 160 bits | |
| Signature | CA signing algorithm identifier / SHA-256 RSA 4096 | |
| Subject Public Key Info | RSA 2048 | |
| Validity | 398 days maximum | |
| Issuer DN | CN = | Certigna Wild CA |
| | OU = | 0002 48146308100036 |
| | OI = | NTRFR-48146308100036 |
| | O = | DHIMYOTIS |
| | C = | FR |
| Subject DN | CN = | One FQDN of the SAN Extension |
| | OU = | ICD + identifier of the entity that owns the service registered in accordance with the laws and regulations |
| | O = | Name of the entity linked to the seal service |
| | L = | City or town of entity's domiciliation (2.5.4.7) |
| | C = | Country of the competent authority to which the entity is officially registered |

The attributes of the subject present in the DN of the final certificates do not contain only metadata such as '.', '-', and ' ' (i.e. space) characters, and/or any other indication that the value is absent, incomplete, or not applicable. Attributes within the subject other than those listed in CA/Browser Forum “Baseline Requirements” contain information that has been verified by the CA.

7.5.5.2 Extensions

| CERTIGNA WILD CA | | |
|--------------------------|--|--|
| Usage | multi-domains Server/client authentication | |
| OID 1.2.250.1.177.2 | .7.1.1.1 | .7.1.2.1 |
| ETSI 319 411 | LCP | LCP |
| RGS v2 | | |
| Fields | Critical | Description |
| Authority Key Identifier | No | CA public key identifier |
| Subject Key Identifier | No | Public key identifier of the server |
| Subject Alt. Name | No | FQDN of domains to protect. « _ » character is not present in any dNSName entry |
| Key Usage | Yes | Digital signature / Key Encipherment |
| Extended Key Usage | No | id-kp-serverAuth / id-kp-clientAuth |
| Certificate Policies | No | OID=1.2.250.1.177.2.7.1.1.1 OID=2.23.140.1.2.2 (OVCP) |
| | | CPS= https://www.certigna.fr/autorites/ |
| CRL Distribut. Points | No | URL= http://crl.certigna.fr/entitycsca.crl URL= http://crl.dhimyotis.com/entitycsca.crl |
| Authority Info. Access | No | caIssuers= http://autorite.certigna.fr/entitycsca.der caIssuers= http://autorite.dhimyotis.com/entitycsca.der URL= http://entitycsca.ocsp.certigna.fr URL= http://entitycsca.ocsp.dhimyotis.com |
| Basic Constraints | No | cA = FALSE |
| Certificate Transparency | No | List of SCTs. <i>Only for certificates containing one or more FQDNs.</i> |

7.5.5.3 Pre-certificates

As part of the implementation of the requirements of the RFC 6962 about « Certificate Transparency », the CA issues pre-certificates. These pre-certificates are not considered to be a “certificate” subjected to the requirements of RFC 5280 and to this CP, and are used only for obtaining SCTs to be included in the extension of certificates issued and containing FQDN. We invite you to consult RFC 6962 for more information on this plan. The SCTs are collected from the following logs:

- mammoth.ct.comodo.com
- ct.googleapis.com/logs/argon20XX (where 20XX is the expiry year of the certificate)
- yeti20XX.ct.digicert.com (where 20XX is the expiry year of the certificate)
- ct.cloudflare.com/logs/nimbus20XX (where 20XX is the expiry year of the certificate)

7.5.6 Profile of Certificates issued by Certigna Identity CA

7.5.6.1 Basic Fields

| CERTIGNA IDENTITY CA | | | | |
|-------------------------|--|--|-------------------------------|---|
| Usage | Encipherment | Authentication/Signature | Encipherment | Authentication/Signature |
| OID 1.2.250.1.177.2 | .3.1.1.1 | .3.1.2.1 | .3.1.3.1 | .3.1.4.1 |
| ETSI 319 411 | LCP | LCP | LCP | LCP |
| RGS v2 | RGS * | RGS * | RGS * | RGS * |
| Fields | Description | | | |
| Version | V3 | | | |
| Serial Number | Unique serial number output from a CSPRNG (Cryptographically secure pseudorandom number generator) / Between 128 and 160 bits | | | |
| Signature | CA signing algorithm identifier / SHA-256 RSA 4096 | | | |
| Subject Public Key Info | RSA 2048 | | | |
| Validity | 1 to 3 years | 1 to 3 years | 1 to 5 years | 1 to 5 years |
| Issuer DN | CN = Certigna Identity CA OU = 0002 48146308100036 OI = NTRFR-48146308100036 O = DHIMYOTIS C = FR | | | |
| Subject DN | SN ¹ = A series of characters consisting in part of a random value for uniqueness | | | |
| | CN = | Firstname SURNAME CHIF | Firstname SURNAME ID | Firstname SURNAME CHIF |
| | GN = | < Firstname > | | |
| | SN ² = | < SURNAME > | | |
| | OU = | ICD + identifier ³ | ICD + identifier ³ | |
| | O = | Name of the entity linked to the Subject | | |
| | C = | Country to which the entity is officially registered | | Country to which the Subject is officially registered |

¹ Serial Number field

² Surname field

³ identifier of the entity that owns the service registered in accordance with the laws and regulations

7.5.6.2 Extensions

| CERTIGNA IDENTITY CA | | | | | |
|--------------------------|-------|--|--|-----------------------------|--|
| Usage | | Encipherment | Authentication/Signature | Encipherment | Authentication/Signature |
| OID 1.2.250.1.177.2 | | .3.1.1.1 | .3.1.2.1 | .3.1.3.1 | .3.1.4.1 |
| ETSI 319 411 | | LCP | LCP | LCP | LCP |
| RGS v2 | | RGS * | RGS * | RGS * | RGS * |
| Extension | Crit. | Contenu | | | |
| Authority Key Identifier | No | CA public key identifier | | | |
| Subject Key Identifier | No | Public key identifier of the Subject | | | |
| Subject Alt. Name | No | Nom RFC822=Subject email address | | | |
| Key Usage | Yes | key Encipherment | Digital signature / Non repudiation | Key Encipherment | Digital signature / Non repudiation |
| Extended Key Usage | No | Email Protection / msEFS | Client Auth / Email Protection | Email Protection / msEFS | Client Auth / Email Protection |
| Certificate Policies | No | .3.1.1.1 | .3.1.2.1 | .3.1.3.1 | .3.1.4.1 |
| | | CPS= https://www.certigna.fr/autorites/ | | | |
| CRL Distribut. Points | No | URL= http://crl.certigna.fr/identityca.crl URL= http://crl.dhimyotis.com/identityca.crl | | | |
| Authority Info. Access | No | calssuers= http://autorite.certigna.fr/identityca.der calssuers= http://autorite.dhimyotis.com/identityca.der URL= http://identityca.ocsp.certigna.fr URL= http://identityca.ocsp.dhimyotis.com | | | |
| Basic Constraints | No | cA = FALSE | | | |

7.5.7 Profile of Certificates issued by Certigna Identity Plus CA

7.5.7.1 Champs de base

| CERTIGNA IDENTITY PLUS CA | | | | | | | | | | |
|---------------------------|-------------------|--|--------------|--------------|--------------|------------------------|---------------------------|------------------------|--------------|--|
| OID 1.2.250.1.177.2 | | .4.1.1.1 | .4.1.7.1 | .4.1.8.1 | .4.1.4.1 | .4.1.3.1 | .4.1.6.1 | .4.1.2.1 | .4.1.5.1 | |
| Usage | | Auth + Sign | Auth + Sign | Auth + Sign | Auth + Sign | Signature | Signature | Authent. | Authent. | |
| ETSI 319 411 | | QCP-n-qscd | QCP-n | QCP-n-qscd | QCP-n-qscd | QCP-n-qscd | QCP-n-qscd | NCP+ | NCP+ | |
| RGS v2 | | RGS ** | | | RGS ** | RGS *** | RGS *** | RGS *** | RGS *** | |
| Fields | | Description | | | | | | | | |
| Version | | V3 | | | | | | | | |
| Serial Number | | Unique serial number output from a CSPRNG (Cryptographically secure pseudorandom number generator) / Between 128 and 160 bits | | | | | | | | |
| Signature | | CA signing algorithm identifier / SHA-256 RSA 4096 | | | | | | | | |
| Subject Public Key Info | | RSA 2048 | | | | | | | | |
| Validity | | 1 to 3 years | 1 to 3 years | 1 to 3 years | 1 to 5 years | 1 to 3 years | 1 to 5 years | 1 to 3 years | 1 to 5 years | |
| Issuer DN | CN = | Certigna Identity Plus CA | | | | | | | | |
| | OU = | 0002 48146308100036 | | | | | | | | |
| | OI = | NTRFR-48146308100036 | | | | | | | | |
| | O = | DHIMYOTIS | | | | | | | | |
| | C = | FR | | | | | | | | |
| Subject DN | SN ¹ = | A series of characters consisting in part of a random value for uniqueness | | | | | | | | |
| | CN = | Firstname SURNAME ID | | | | Firstname SURNAME SIGN | | Firstname SURNAME AUTH | | |
| | GN = | <Firstname> | | | | | | | | |
| | SN ² = | <SURNAME> | | | | | | | | |
| | OU = | ICD + identifier ³ | | | | | ICD + ident. ³ | | | |
| | O = | Entity name ⁴ | | | | | Entity name ⁴ | | | |
| | C = | Country to which the entity or the Subject is officially registered | | | | | | | | |

¹ Serial Number field

² Surname field

³ identifier of the entity linked to the Subject registered in accordance with the laws and regulations

⁴ Name of the entity to which the Subject is attached

7.5.7.2 Extensions

| CERTIGNA IDENTITY PLUS CA | | | | | | | | | |
|---------------------------|-------------|--|-------------|-------------|-------------|------------------|-------------|-------------------|-------------|
| OID 1.2.250.1.177.2 | .4.1.1.1 | .4.1.7.1 | .4.1.8.1 | .4.1.4.1 | .4.1.3.1 | .4.1.6.1 | .4.1.2.1 | .4.1.5.1 | |
| Usage | Auth + Sign | Auth + Sign | Auth + Sign | Auth + Sign | Signature | Signature | Authent. | Authent. | |
| ETSI 319 411 | QCP-n-qscd | QCP-n | QCP-n-qscd | QCP-n-qscd | QCP-n-qscd | QCP-n-qscd | NCP+ | NCP+ | |
| RGS v2 | RGS ** | | | RGS ** | RGS *** | RGS *** | RGS *** | RGS *** | |
| Extension | Critical | Description | | | | | | | |
| Authority Key Identifier | No | CA public key identifier | | | | | | | |
| Subject Key Identifier | No | Public key identifier of the Subject | | | | | | | |
| Subject Alt. Name | No | Nom RFC822=Subject email address | | | | | | | |
| Key Usage | Yes | Digital signature / Non repudiation | | | | Non repudiation | | Digital signature | |
| Extended Key Usage | No | Client Auth / Email Protection | | | | Email Protection | | Client Auth | |
| Certificate Policies | No | OID.4.1.1.1 | OID.4.1.7.1 | OID.4.1.8.1 | OID.4.1.4.1 | OID.4.1.3.1 | OID.4.1.4.1 | OID.4.1.2.1 | OID.4.1.5.1 |
| CRL Distribut. Points | No | CPS= https://www.certigna.fr/autorites/ | | | | | | | |
| | | URL=http://crl.certigna.fr/identityplusca.crl URL=http://crl.dhimyotis.com/identityplusca.crl | | | | | | | |
| Authority Info. Access | No | calssuers=http://autorite.certigna.fr/identityplusca.der calssuers=http://autorite.dhimyotis.com/identityplusca.der URL=http://identityplusca.ocsp.certigna.fr URL=http://identityplusca.ocsp.dhimyotis.com | | | | | | | |
| Basic Constraints | No | cA = FALSE | | | | | | | |
| QC Statement | No | QcCompliance | | | | | | | |
| | | QcSSCD | | QcSSCD | | | | | |
| | | QcEuPDS | | | | | | | |
| | | QcType 1 | | | | | | | |

7.6 Profile of OCSP certificates from Legal Person intermediate CA

| Authority | | ENTITY CA | ENTITY CODE SIGNING CA | FR03 | SERVICES CA | WILD CA |
|----------------------------|-------|--|---------------------------------|--------|----------------------|------------------|
| Fields | | Description | | | | |
| Version | | V3 | | | | |
| Serial Number | | Unique serial number output from a CSPRNG. Between 128 and 160 bits | | | | |
| Signature | | CA signing algorithm identifier / SHA-256 RSA 4096 | | | | |
| Subject Public Key Info | | RSA 2048 | | | | |
| Validity | | 3 years | | | | |
| Issuer DN | CN = | Certigna Entity CA | Certigna Entity Code Signing CA | FR03 | Certigna Services CA | Certigna Wild CA |
| | OU = | 0002 48146308100036 | | | | |
| | OI = | | | | | |
| | O = | NTRFR-48146308100036 | | | NTRFR-48146308100036 | |
| | C = | DHIMYOTIS | | | | |
| Subject DN | CN = | OCSP Entity CA | OCSP Entity Code Signing CA | 2D-Doc | OCSP Services CA | OCSP Wild CA |
| | OU = | 0002 48146308100036 | | | | |
| | O = | DHIMYOTIS | | | | |
| | C = | FR | | | | |
| | | | | | | |
| Extensions | Crit. | Description | | | | |
| Authority Key Id. | No | CA public key identifier | | | | |
| Subject Key Id. | No | OCSP responder public key identifier | | | | |
| Authority Informat. Access | No | calssuers=http://autorite.certigna.fr/ <Nom AC>.der calssuers=http://autorite.dhimyotis.com/<Nom AC>.der URL=http://<Nom AC>.ocsp.certigna.fr URL=http:// <Nom AC>.ocsp.dhimyotis.com | | | | |
| CRL Distribution Points | No | URL=http://crl.certigna.fr/XXXX.crl URL=http://crl.dhimyotis.com/wildca.crl | | | | |
| Ocsp No Check | No | | | | | |
| Basic Constraints | No | cA = FALSE | | | | |

7.7 Profile of OCSP certificates from Natural Person intermediate CA

| Authority | | IDENTITY CA | IDENTITY PLUS CA |
|----------------------------|---|--|---------------------------|
| Fields | Description | | |
| Version | V3 | | |
| Serial Number | Unique serial number output from a CSPRNG. Between 128 and 160 bits | | |
| Signature | CA signing algorithm identifier / SHA-256 RSA 4096 | | |
| Subject Public Key Info | RSA 2048 | | |
| Validity | 3 years | | |
| Issuer DN | CN = | Certigna Identity CA | Certigna Identity Plus CA |
| | OU = | 0002 48146308100036 | |
| | OI = | NTRFR-48146308100036 | |
| | O = | DHIMYOTIS | |
| | C = | FR | |
| Subject DN | CN = | OSCP Identity CA | OSCP Identity Plus CA |
| | OU = | 0002 48146308100036 | |
| | O = | DHIMYOTIS | |
| | C = | FR | |
| Extensions | Crit. | Description | |
| SKI | No | CA public key identifier | |
| AKI | No | OSCP responder public key identifier | |
| Authority Informat. Access | No | calssuers=http://autorite.certigna.fr/ <Nom AC>.der calssuers=http://autorite.dhimyotis.com/<Nom AC>.der URL=http://<Nom AC>.ocsp.certigna.fr URL=http:// <Nom AC>.ocsp.dhimyotis.com | |
| CRL Distribution Points | No | URL=http://crl.certigna.fr/XXXX.crl URL=http://crl.dhimyotis.com/wildca.crl | |
| Ocsp No Check | No | | |
| Basic Constraints | No | cA = FALSE | |

7.8 Profile of CRL for intermediate CAs

| | | ENTITY CA | ENTITY CODE SIGNING CA | FR03 | SERVICES CA | WILD CA | IDENTITY CA | IDENTITY PLUS CA |
|-------------------------|-------|---|---------------------------------------|------|-------------------------|---------------------|-------------------------|---------------------------------|
| Fields | | Description | | | | | | |
| Version | | V2 | | | | | | |
| Signature | | CA signing algorithm identifier / SHA-256 RSA 4096 | | | | | | |
| Issuer DN | CN = | Certigna Entity CA | Certigna Entity Code Signing CA | FR03 | Certigna Services CA | Certigna Wild CA | Certigna Identity CA | Certigna Identity Plus CA |
| | OU = | 0002 48146308100036 | | | | | | |
| | OI = | NTRFR-48146308100036 | | | NTRFR-48146308100036 | | | |
| | O = | DHIMYOTIS | | | | | | |
| | C = | FR | | | | | | |
| This Update | | CRL generation date | | | | | | |
| Next Update | | Next date of CRL update [7 days maximum] | | | | | | |
| Revoked certificates | | List of revoked certificate serial number | | | | | | |
| Extensions | Crit. | Description | | | | | | |
| AKI | No | CA public key identifier | | | | | | |
| CRL Nb | No | CRL serial number | | | | | | |
| Expired CertsOnCRL | No | Date from which revoked and expired certificates are maintained in the CRL. | | | | | | |

7.9 Profile of ARL for root CAs

| Certigna Root CA | | Certigna |
|----------------------|---|---|
| Fields | Description | |
| Version | V2 | |
| Signature | CA signing algorithm identifier / SHA-256 RSA 4096 | |
| Issuer DN | CN = | Certigna Root CA |
| | OU = | 0002 48146308100036 |
| | O = | Dhimyotis |
| | C = | FR |
| This Update | ARL generation date | |
| Next Update | Next date of ARL update [1 year maximum] | |
| Revoked certificates | List of revoked CA certificate serial number: - Serial number - Revocation date - Revocation reason (since 09-30-2020) | |
| Extensions | Crit. | Description |
| AKI | No | CA public key identifier |
| CRL Nb | No | ARL serial number |
| Expired CertsOnCRL | No | Date from which revoked and expired certificates are maintained in the ARL. |

7.10 Processing certificates extensions by applications

Extensions defined for X509 V3 certificates are used to associate additional information with a public key, relating to the subject or the CA.

7.10.1 Criticality

The criticality character must be treated as follows depending on whether the extension is critical or not:

- If the extension is uncritical, then:
 - If the application does not recognise the OID, the extension is abandoned but the certificate is accepted;
 - If the application recognizes the OID, then:
 - If the extension is compliant with what the application wants to do, the extension is processed.
 - If the extension is not compliant with what the application wants to do, the extension is abandoned but the certificate is accepted.
- If the extension is critical, then:
 - If the application does not recognise the OID, the certificate is rejected.
 - If the application recognizes the OID, then:
 - If the extension is compliant with what the application wants to do, the extension is processed.
 - If the extension is not compliant with what the application wants to do, the certificate is rejected.

7.10.2 Extension description

Authority Key Identifier: This extension identifies the public key used to verify the signature on a certificate. It differentiates the different keys used by the CA when it has multiple signing keys. The authorityKeyIdentifier field is necessarily informed. It contains a unique identifier (keyIdentifier). This CA key identifier has the same value as the subject-field KeyIdentifier of the CA certificate. The authorityCertIssuer authorityCertSerialNumber fields are blank.

Subject Key Identifier: This extension identifies the public key of the subject associated with the certificate. It allows to distinguish the different keys used by the subject. Its value is the value in the field keyIdentifier.

KeyUsage: This extension defines the intended use of the key contained in the certificate. CA Indicates the intended use of the key and manages the criticality as defined in section 7.2.

Extended Key Usage: This extension defines the advanced use of the key.

CertificatePolicies: This extension defines the certification policy following which the certificate was created. This field is processed during the validation of the certification chain. The CA includes the policyInformation field by filling the policyIdentifier field with the OID of the CP.

CRL Distribution Points: This extension identifies the location where the user can find the CRL indicating that the certificate has been revoked. The CA includes as many distributionPoint fields than it offers access mode to CRL. Each of these fields includes the uniformResourceIdentifier of the CRL.

Authority Information Access: This extension identifies (with Method = OCSP) the location of OCSP server(s) providing information on the status of certificates, and the CA with providing a link to the its certificate.

Basic Constraints: This extension indicates whether the certificate is an end entity certificate or an authority certificate.

Certificate Transparency: This extension allows to control the registration of the certificate in the logs used for the "Certificate Transparency".

8 COMPLIANCE AUDIT AND OTHER ASSESSMENT

Audits and assessments concern, firstly, those made for the issuance of a qualification attestation based on the Ordinance No. 2005-1516 of 8 December 2005 and eIDAS European Regulation and, secondly, those that are carried by the CA or outsourced to ensure that all its PKI is compliant with its commitments stated in its CP and practices identified in its CPS.

The following chapters are for audits and evaluations of the responsibility of the CA to ensure the efficiency of its PKI.

The CA may carry out audits of its DRAs' operators as well as the staff of its PKI. It ensures among others that DRA operators respect the requirements defined in its CP and the practices identified in its CPS. To this end, the CP and the CPS are given to them.

8.1 Frequency or Circumstances of Assessment

A CA compliance check was performed before the deployment of certification services relative to means and rules mentioned in the CP and in the CPS.

This control is conducted once a year by the CA. Qualification audits are performed every year.

8.2 Identity/Qualifications of Assessor

Control is assigned by the CA to a team of competent auditors in computer security and in activity of the controlled component.

8.3 Assessor's Relationship to Assessed Entity

The audit team do not belong to the component of the controlled PKI, whatever that component, and must be duly authorized to practice the targeted controls.

8.4 Topics Covered by Assessment

The compliance checks are implemented to verify compliance with the commitments and practices defined in the CA's CP and the CPS, and elements thereunder (operational procedures, resources used, ...).

8.5 Actions Taken as a Result of Deficiency

Following a compliance check, the audit team provide to the CA, a notice from the following: "Improvement", "remark", "minor nonconformity", "major nonconformity".

According to the results, the consequences of control are:

- In case of 'improvement', and according to the importance of the improvement, the audit team makes recommendations to CA to improve its functioning. Improvements are left to the discretion of the CA that decides whether or not to implement them.

- In case of "remark" or "minor nonconformity", the CA sends to the component a notice specifying in what timeframe nonconformities shall be lifted. Then, a control for confirmation will verify that all critical points have been resolved.
- In case of a "major nonconformity", and according to the importance of non-conformities, the audit team makes recommendations to the CA that can be business termination (temporary or permanent), revocation of certificate of component, revocation of all certificates issued since the last positive control, etc. The choice of measurement to be used is made by the CA and must respect the internal security policies.

Each session of audit permits to consult the opinion of the audit team. A control for confirmation will verify that all critical points have been resolved on time.

8.6 Communication of Results

The results of the compliance audits by the audit team are made available to the organization in charge of the qualification of the CA.

9 OTHER BUSINESS AND LEGAL MATTERS

9.1 Fees

9.1.1 Certificate Issuance or Renewal Fees

The issue of certificates to Subjects is charged according to the rates on the website or on the order form.

9.1.2 Certificate Access Fees

No stipulation.

9.1.3 Revocation or Status Information Access Fees

The access to certificate status information and revocation is free.

9.1.4 Fees for Other Services

Other costs may be charged. In this case, charges will be brought to the attention of those to whom they apply and are available from CA.

9.1.5 Refund Policy

The certificate order cannot be cancelled once the certificate request has been made. Then, each certificate issued cannot be the subject of a request for reimbursement due to implementation difficulties related in particular to the technical operating environment of the certificate (e.g. non-compliance of software or hardware storing and using the certificate with the standards and norms in force). However, in the event that the certificate does not correspond to the certificate request, following an error exclusively attributable to the CA, the CA undertakes to provide a certificate compliant, or if it is unable to do so, to proceed with the reimbursement amounts already paid under the present CP and the TCSU associated.

9.2 Financial Responsibility

9.2.1 Insurance Coverage

The CA holds an insurance policy in the field of professional civil liability, guaranteeing direct material or immaterial consequential damages caused in the exercise of his professional activity

9.2.2 Other Assets

No stipulation.

9.2.3 Insurance or Warranty Coverage for End-Entities

Cf. chapter 9.9.

9.3 Confidentiality of Business Information

9.3.1 Scope of Confidential Information

The information considered confidential are:

- The non-public part of the CPS of the CA;
- The private keys of the CA, of components and of services, servers and subjects private key;
- Activation Data associated with CA private key and Subject private Key;
- All the PKI secrets;
- Event logs of components of the PKI;
- The subject registration records;
- The causes of revocation.

9.3.2 Information not within the Scope of Confidential Information

No stipulation.

9.3.3 Responsibility to Protect Confidential Information

Generally, confidential information is accessible only to persons concerned by such information or who have the obligation to preserve and / or treat such information.

Once confidential information is subject to a special regime governed by a legislative and regulatory text, processing, access, modification of this information is made in accordance with the applicable legislation.

The CA implements security procedures to ensure confidentiality of the information identified in chapter 9.3.1, about the final erasure or destruction of media used for their storage. In addition, when data is exchanged, the CA guarantees their integrity.

The CA is particularly obliged to respect the laws and regulations in force on the French territory. It may need to provide the registration records of Subjects to third parties in connection with legal proceedings. It also provides access to this information at Subjects, certification agents and possibly DRA's operators in connection with the Subjects.

9.4 Privacy of Personal Information

9.4.1 Privacy Plan

By accepting these GCSU the Subscriber, the Subject or the CM acknowledges having read the CERTIGNA Personal Data Use Policy available on the Website <https://www.certigna.com/politique-dutilisation-des-donnees-personnelles/>.

The data provided by the Subscriber, the Subject or the CM, when registering on the Website <https://www.certigna.com>, when ordering and when request for certificate are Personal Data, the collection and processing of which are governed by the Aforementioned Personal Data Policy.

Electronic certificate application files containing personal data are archived for at least seven years after certificate expiration and as long as necessary for the purposes of providing proof of certification in legal proceedings, in accordance with applicable law. The personal identity information can be used as authentication data in the event of a request for revocation or information.

Application logs related to the life cycle of certificates and including personal data are archived at least seven years after their generation and as long as necessary for the purposes of providing proof of certification in legal procedures, in accordance with applicable law.

In addition, DHIMYOTIS retains the personal data for a period of three years from the end of the commercial relationship with the customer and 3 years from the last contact with the prospect. The delay starts from the last connection to the customer account or the last sending of an email to customer service, or from a click on a hypertext link of an email sent by DHIMYOTIS, a positive response to an email requesting if the client wishes to continue to receive commercial prospecting at the end of the three-year period.

In order to monitor the quality of our services, calls made to our customer service are likely to be registered and kept for a period of 30 days.

In accordance with the law n ° 78-17 of January 6, 1978 relating to data, files and freedoms, modified and the European regulation "2016/679 / EU of April 27, 2016" relating to the protection of natural persons to the processing of personal data and the free movement of such data, you have the right to access, oppose, rectify, delete and portability of your personal data. You can exercise your right by sending an email to: privacy@certigna.com, or by mail to the following address:

CERTIGNA, Service du DPO,

20 Allée de Râperie, 59 650 Villeneuve d'Ascq, France

Your request must indicate your surname and first name, e-mail or postal address, be signed and accompanied by a valid proof of identity.

9.4.2 Information Treated as Private

The information considered as personal are:

- The causes of revocation of certificates;
- The registration files of RC, of DRA's operators and of certification agents.

9.4.3 Information not Deemed Private

No stipulation.

9.4.4 Responsibility to Protect Private Information

Cf. legislation and regulations on French territory.

9.4.5 Notice and Consent to Use Private Information

Accordance with the laws and regulations on French territory, personal information submitted by Subject to CA must not be disclosed or transferred to third parties except in the following circumstances: prior consent of the Subject, court order or other legal authorization.

9.4.6 Disclosure pursuant to Judicial or Administrative Process

The disclosure of confidential information is only made to the authorities empowered officially and exclusively on their specific request in accordance with French law.

9.4.7 Other Information Disclosure Circumstances

No stipulation.

9.5 Intellectual Property Rights

The brand "CERTIGNA" is protected by the Code of Industrial Property. The use of this trademark by the entity is allowed only in the framework of the subscription contract.

9.6 Representations and Warranties

Obligations common to the PKI components are:

- To protect and ensure the integrity and confidentiality of their secret keys and / or private;
- Only use their cryptographic keys (public, private and / or secret) for the purposes specified when issued and with the equipment as specified in the conditions set by the CA's PC and documents arising therefrom;
- Respect and implement the part of the CPS incumbent upon them (this part shall be communicated to the corresponding component);
- Submit to compliance checks by the audit team mandated by the CA (See Chapter 8) and the qualifying body;
- Respect the agreements or contracts between them or with the entity;
- To document their internal operating procedures;
- Implement the means (human and technical) necessary to achieve the benefits to which they are committed under conditions that ensure quality and safety.

9.6.1 CA Representations and Warranties

The CA will:

- can demonstrate to certificate users; it has issued a certificate to a service, a server or a Subject and the corresponding CM or Subject accepted the certificate in accordance with the requirements of Section 4.4;
- Ensure and maintain the consistency of its CPS with its CP;

- Take all reasonable steps to ensure that Subjects are aware of their rights and obligations regarding the use and management of keys, certificates or equipment and software used for PKI. The relationship between CM or Subject and the CA is formalized in a contractual relationship / regulation specifying the rights and obligations of the parties including the guarantees provided by the CA.
- At the time of issuance, implement and follow the requirements describes at sections 3.2 and 3.3 of this CP for verifying that the organization attached to the service, the server or the Subject authorized the issuance of the Certificate and that the Applicant Representative is authorized to request the Certificate on behalf of the Organization attached to the server.
- At the time of issuance, implement and follow the requirements describes at sections 3.2 and 3.3 of this CP for verifying the accuracy of all of the information contained in the Certificate.
- At the time of issuance, implement and follow the requirements describes at sections 3.2 and 3.3 of this CP for verifying the identity of the organization, the legal representative and the designated Certificate Manager or the Subject.
- If the CA and Subscriber are not Affiliated, the Subscriber and CA are parties to a legally valid and enforceable Subscriber Agreement that satisfies these Requirements,
- If the CA and Subscriber are the same entity or are Affiliated, the Applicant Representative acknowledged the Terms of Use;
- Maintain a 24 x 7 publicly accessible Repository with current information regarding the status (valid or revoked) of all unexpired Certificates;
- Revoke the Certificate for any of the reasons specified at section 4.9 of this CP.

| | |
|---|--------------------|
| SERVICES CA | Authentication web |
| WILD CA | Authentication web |
| <ul style="list-style-type: none"> - At the time of issuance, implement and follow the requirements describes at sections 3.2 and 3.3 of this CP for verifying that the Certificate Manager either had the right to use, or had control of, the Domain Name(s) listed in the Certificate's subject field and subjectAltName extension (or, only in the case of Domain Names, was delegated such right or control by someone who had such right to use or control). | |

CA assumes any harmful consequences resulting from non-compliance of its CP by itself or one of its components. CA planned to meet its responsibilities in its operations and / or activities and have the financial stability and resources required to operate in accordance with this policy. In addition, the CA recognizes its liability in case of fault or negligence of itself or one of its components, regardless of the nature and gravity, which would result in reading, alteration or misuse of personal data of Subjects for fraudulent purposes, these data are contained in transit or in the certificate management applications of the CA.

Furthermore, the CA recognizes having to bear a general duty of supervision for the safety and integrity of certificates issued by itself or one of its components. She is responsible for maintaining the security level of technical infrastructure on which it relies to provide its services. Any changes affecting the level of security provided shall be approved by the high-level bodies of the CA.

9.6.2 RA Representations and Warranties

The registration authority is committed to verify and validate the certificate requests and certificate revocation.

9.6.3 CM/Subject Representations and Warranties

The Subject or the CM has the following obligations:

- Make its certificate request by following all procedure steps provided on the Website <https://www.certigna.fr>;
- Provide accurate, complete and up-to-date information during the certificate request or its renewal;
- Send to RA, if applicable to the DRA or to a Certification Agent of the entity, by hand or by post, the registration form generated at the time of the certificate request online on the Website; or on the DRA's website where appropriate, the payment, as well as the evidence documents.
- If necessary, generate the key pair with a RSA modulus size of 2048 bits and in compliance with ESTI 119 312 specifications;
- Generate the key pair associated with the certificate in a device or cryptographic device meeting the requirements of Chapter 11 of the Associated Certification Policy.
Evidence that the device compliance could be required by the CA during the certificate request (in particular for a seal certificate. These evidences to provide will be at a minimum, the device's purchase invoice and the screen shots / prints of the hardware and software features of the device and the associated serial number. **The CA reserves the right to refuse the certificate request if it is found that this device does not meet these requirements.**
- In the case where the CA would be informed or would identified the loss of the compliance of the device, the CA will ask the Subject or the CM for proof that the key pair is stored in a device that meets the requirements of Chapter 11 of the CP associated to the certificate.
The Subject or the CM undertakes to provide these evidences (E.g: Invoice of purchase of a new device certified QSCD, Minutes of ceremony of the keys in case of key migration, Minutes of update of the device for the maintenance of the certification, etc.) within a deadline fifteen (15) days following the request. In the event that no evidence is provided or that the latter do not make it possible to determine if the storage conditions of the key pair, and transfer in another device if any, meet the requirements of the Certification Policy, the CA gives itself the right to revoke the certificate.
- Inform the RA in case of non-receipt of an e-mail confirming the certificate request or revocation request.
- Following receipt of an e-mail from the RA indicating the non-conformity of the certificate request or that the request is incomplete, make the modifications within seven (7) calendar days after receipt of this e-mail.
- Download the generated certificate, available on its customer area where appropriate, within thirty (30) days of the validation of the certificate request which is notified by e-mail to the CM. Beyond this period, the certificate is automatically revoked by the RA;
- Accept explicitly the certificate from its CERTIGNA customer area or from the DRA's website where appropriate. This acceptance can also be done by sending a paper form signed by the Subject or the CM on the express request of the RA. In the event of explicit non-acceptance, the certificate is automatically revoked by the RA;
- Protect the private key associated with the certificate for which he is responsible by means appropriate to its environment and in compliance with the requirements from chapter 11;
- Protect its activation data and, if necessary, implement it;
- Protect access to the certificate database of the server for server and / or client authentication certificate;
- Respect the conditions of use of the certificate and of the associated private key mentioned in chapter 4.5 of this document;
- Inform the CA of any changes to the information contained in the certificate;
- Immediately make a certificate revocation request for which it is responsible to the RA, the DRA to which the certificate request has been made or, where appropriate, the Certification Agent of the entity, when one of the causes of revocation of Chapter 4.9.11 is encountered.
- Take all appropriate measures to ensure the security of the device(s) on which the certificate is installed. The Subject or the CM is solely responsible for the installation of the certificate;

- no longer use a certificate and delete the associated key pair after the expiry or revocation of this certificate;
- Inform RA of its departure from the entity or change of responsibilities and the need to register a new Subject or CM.
- Check the suitability of the certificate and its characteristics;
- Ensure that the hardware and / or software prerequisites recommended by the CA are met in view of the installation and use of the certificate;
- Have all the skills and means necessary to use the certificates;
- Implement measures to prevent any unauthorized person from physically accessing the device storing the keys and the certificate;
- Immediately notify the person in charge of the security of the information systems of his entity (example: CISO) in case of loss or theft of the device storing the keys and the certificate; and
- For applications deemed to be the most critical at the business level, implement measures to detect potentially fraudulent transactions (inconsistency of signed business data, etc.) and to provide, if necessary, an alternative procedure.
- For a server and / or client authentication certificate, and in the case where, for one or more domain names to be included in the certificate, the "DNS CAA" option is enabled, the RC must update the associated DNS records to include the CA, prior to the request for a certificate.

The relationship between the CM or the Subject and the CA or its components is formalized by a commitment from the CM or the Subject to certify the accuracy of the information and documents provided. This information also applies to DRA operators and Certification Agents.

9.6.4 Subscriber Representations and Warranties

The subscriber has the duty to:

- Apply for a certificate by following all the steps of the procedure appearing on the Website.
- Communicate exact, complete and up-to-date information for the creation of his customer account, the request for certificate or its renewal;
- Confirm that the information to be placed in the certificate is correct;
- Send to the RA, if applicable to the DRA, or to a Certification Agent of the legal entity attached to the certificate, by hand or by post (at its expense), the registration form generated during the request for certificate online on the Website or on the DRA Website where applicable, payment, as well as supporting documents.
- Comply with the conditions of use of the certificate and the associated private key set out in chapter 4.5 hereof and prohibit any unauthorized use of the certificate and the associated private key of the Subject, the seal service or the server;
- If necessary, generate the key pair with a 2048-bit RSA modulus and in compliance with ESTI 119 312 specifications;
- If necessary, generate the key pair associated with the certificate in a cryptographic device which complies with the security requirements of chapter 11 ;
- Supporting documents attesting to the conformity of the cryptographic device may be requested by the CA when requesting a certificate (in the case of a seal certificate). These supporting documents will be at a minimum the purchase invoice of the device and photos / screenshots of the hardware and software characteristics of the device and the associated serial number. The CA reserves the right to refuse the certificate request in the absence of supporting documents or if it has been proven that this device does not meet these requirements.
- Keep the Subject's private key under his sole control;
- Maintain the private key of the seal or server service under the control of the associated legal person;
- Immediately inform the CA of any loss, theft or compromise of the Subject's private key, seal or server service;

- Immediately inform the CA if control of the private key of the subject, service or server has been lost due to the compromise of activation data (for example, the PIN code) or other reasons;
- Immediately inform the CA of any modification concerning the information contained in the certificate;
- Inform the RA in the event of non-receipt of an email confirming that the request for certificate or revocation has been taken into account;
- Following receipt of an email from the RA indicating the non-compliance of the certificate application or that the file is incomplete, make the changes within seven (7) calendar days after receipt of said email;
- Make sure that the certificate of the Subject, the seal service or the server is no longer used following the expiration or revocation of this certificate (except for encipherment keys).
- check the suitability of the certificate and its characteristics to its needs.

9.6.5 Relying Party Representations and Warranties

Third party users must:

- Check and maintain the use for which a certificate was issued;
- For each certificate of the certification chain, from the end-entities certificate to the Certigna Root CA, verify the digital signature of the issuing CA on the certificate and check the validity of the certificate (validity date, revocation status);
- Check and respect the obligations of certificate users expressed in this CP.

9.6.6 Representations and Warranties of Other Participants

No stipulation.

9.6.7 Termination

In the event of a breach by the CA or the Subject to one of its obligations hereunder, the other party shall be authorized thirty (30) days after formal notice sent by registered letter with acknowledgment of receipt, had no effect, to terminate these by operation of law by registered letter with acknowledgment of receipt without prejudice to any damages and interests to which it could claim due to the deficiencies invoked.

9.7 Disclaimers of Warranties

Any certificate ordered must be accepted by the CM or the Subject on the customer space created from the CA website or from one of its DRA. Before generating the certificate, the CM or the Subject must verify that the information stated in his certificate request is accurate. Failing this, the CM or the Subject must contact a member of the staff of the CA either by telephone at 0 806 115 115 (free service cost of a local call), or by email at the following address: contact@certigna.fr. Telephone support is available from Monday to Friday, except holidays, from 9 AM to 6 PM without interruption. The CM or the Subject is aware that in case of error during the order in the nature of the certificate, no modification can be made by the CA and the CM or the Subject will have to make a new certificate request. If a payment had already been made, the CA would not be required to pay any refund.

Once the certificate request validated, the certificate is generated. The Subject is then brought to confirm the accuracy of said information, which means acceptance of the certificate.

otherwise, the CM or the Subject will have to make a new certificate request and the certificate generated will not give rise to any refund.

Once the certificate accepted, the certificate is available to the CM or the Subject either on his customer area or on a cryptographic device. the installation of the certificate is done under the sole responsibility of the CM or the Subject. In case of any difficulty during this last phase, the CM or the Subject can contact the CA at the telephone number and the email address indicated above or via contact details available on the DRA website. The CA does not guarantee the operation of the certificate in the case of use outside the uses provided for in chapter 1.5 hereof.

The warranty is valid for the worldwide outside the USA and Canada.

9.8 Limitations of Liability

The CA is subject to a general obligation of means. The CA cannot be held liable for the CM or the Subject for direct damage that may be attributed to it for the services entrusted to it under these TCSU.

The CA's responsibility cannot be sought for any indirect loss, such as, in particular, loss of turnover, loss of profit, loss of orders, loss of data, loss of opportunity, disturbance to the image or any other special damage or events beyond its control or any fact not attributable to it.

The CA is only responsible for the tasks specifically assigned to it under this CP.

The CA cannot be held responsible in any way for the use made by the CM or the Subject of the certificates, nor the contents of the documents and the data which are given to it by the CM, the Subject or the applicant.

In any case, the responsibility of the CA cannot be sought in case of:

- Fault, negligence, omission or default of the CA, which would constitute the exclusive cause of the occurrence of the damage,
- Malfunction or unavailability of tangible or intangible property in the case where it has been provided by the Subject,
- Delay in providing the data to be processed due to the Subject;
- Loss of the qualification of a third-party provider that is beyond the control of CERTIGNA (ex: the supplier of cryptographic support).

By express agreement between the CA and the Subject, the liability of the CA is limited, by certificate request, all damages, to the sum of two (2) times the amount paid under the certificate request.

9.9 Indemnities

CERTIGNA signed a contract of "liability insurance".

The CA understands and acknowledges that the Application Software Suppliers who have a Root Certificate distribution agreement in place with the Root CA do not assume any obligation or potential liability of the CA under these Requirements or that otherwise might exist because of the issuance or maintenance of Certificates or reliance thereon by Relying

Parties or others.

The CA defends, indemnifies, and holds harmless each Application Software Supplier for any and all claims, damages, and losses suffered by such Application Software Supplier related to a Certificate issued by the CA, regardless of the cause of action or legal theory involved. This does not apply, however, to any claim, damages, or loss suffered by such Application Software Supplier related to a Certificate issued by the CA where such claim, damage, or loss was directly caused by such Application Software Supplier's software displaying as not trustworthy a Certificate that is still valid, or displaying as trustworthy a Certificate that has expired, or a Certificate that has been revoked (but only in cases where the revocation status is currently available from the CA online, and the application software either failed to check such status or ignored an indication of revoked status).

9.9.1 Indemnification by CM or Subject

No stipulation.

9.9.2 Indemnification by Relying Parties

No stipulation.

9.10 Term and Termination

9.10.1 Term

CA's CP remain in effect at least until the end of life of the last certificate issued under this CP.

9.10.2 Termination

The publication of a new version of the documents mentioned at chapter 1.1 may result, depending on the changes made, the need for the CA to evolve its corresponding CP. In this case, such compliance will not impose the early renewal of licenses already issued, except in exceptional cases linked to security.

Finally, the validity of the CP can happen prematurely in case of cessation of trading of the CA (see section 5.8).

9.10.3 Effect of termination and Survival

The end of validity of the CP also terminates all clauses within it.

9.11 Individual Notices and Communications with Participants

In case of change of any kind involved in the composition of the PKI, the CA will:

- Validate later than one month before the start of the operation, this change through technical expertise to assess the impacts on the quality and safety functions of the CA and its various components;

- Inform, within one month after the end of the operation, the evaluation body.

9.12 Amendments

9.12.1 Procedure for Amendment

The CA conducts any change in the specifications stipulated in the CP and CPS and / or components of the CA that appears necessary to improve the quality of certification services and the security of processes, remaining however meets the requirements of RGS and additional documents to the latter.

The CA also conducts any changes to the specifications stipulated in the CP and CPS and / or components of the CA that is made necessary by legislation, regulations or by the results of checks.

9.12.2 Notification Mechanism and Period

The CA communicates via its website <https://www.certigna.com> the evolution of the CP based on its amendments.

9.12.3 Circumstances under which OID Must Be Changed

The OID of the CA's CP being registered in the certificates it issues, evolution in this CP has a major impact on the certificates already issued (e.g., increase in registration requirements of subjects, which cannot be applied to certificates already issued) must result in a change of the OID, so that users can clearly distinguish which certificates correspond to which requirements.

When the change of the CP is typographical or it does not impact the quality and safety of the functions of the CA and the RA, the OID of the CP and the corresponding CPS are not changed.

9.13 Dispute Resolution Provisions

The validity of this CP and any other question or dispute relating to its interpretation, execution or termination will be governed by French law.

The CA and the CM or the Subject commit themselves to devote their best efforts to the amicable resolution of all the questions or the litigation which could divide them, before the seizure of the jurisdiction hereinafter designated.

The CA and the CM or the Subject agree, in the event that an amicable agreement is impossible to stop, that the courts of Lille will have exclusive jurisdiction to hear any dispute resulting from the validity, interpretation, execution or termination hereof, and more generally from any dispute arising herein that could divide them, notwithstanding pluralities of defendants or warranty claim.

9.14 Governing Law

Any dispute concerning the validity, interpretation, execution of this CP will be submitted to the courts of Lille.

9.15 Compliance with Applicable Law

This CP is subject to French law and applicable legislative texts for this CP.

The trust service practices under which the CA operates are non-discriminatory.

9.16 Miscellaneous Provisions

9.16.1 Entire Agreement

This document contains all the provisions governing the PKI.

9.16.2 Assignment

Cf. chapter 5.8.

9.16.3 Severability

In case of an invalid clause, the other clauses are not questioned.

In the event of a conflict between the requirements of this CP and a law, regulation or government order (hereinafter 'Law') of any jurisdiction in which the CA operates or issues certificates, CA modifies any conflicting requirement to the minimum extent necessary to make the requirement valid and legal in the jurisdiction. This applies only to operations or certificate issuances that are subject to that Law. In such event, CA immediately include in this section (and prior to issuing a certificate under the modified requirement) a detailed reference to the Law requiring a modification of these requirements and the specific modification to these Requirements implemented by the CA.

The CA notifies the CA/Browser Forum and ANSSI (prior to issuing a certificate under the modified requirement) of the relevant information newly added to this CP by sending a message to questions@cabforum.org (or such other email addresses and links as the Forum may designate) leading to a confirmation.

Any modification to CA practice enabled under this section is discontinued if and when the Law no longer applies, or these requirements are modified to make it possible to comply with both them and the Law simultaneously. An appropriate change in practice, modification to the CP and CPS of CA and a notice to the CA/Browser Forum are made within 90 days.

9.16.4 Enforcement

No renunciation of any of his rights shall be allowed to take place tacitly. To be opposable to the AC a renunciation must have been made in writing. Such waiver shall not constitute a renunciation of future rights audits.

9.16.5 Force Majeure

The CA will not be held responsible for any delay or failure in the performance of any of its obligations under this CP, if the delay or failure is due to the occurrence of a case of force majeure usually recognized by the jurisprudence of French courts and tribunals.

9.17 Other Provisions

No stipulation.

10 APPENDIX 1: SECURITY REQUIREMENTS FOR THE CA'S CRYPTOGRAPHIC MODULE

10.1 Security Objectives Requirements

The cryptographic module used by the CA to generate and implement its signature keys (for the generation of electronic certificates, CRL, and OCSP responses), must meet the following security requirements:

- Ensuring the confidentiality and integrity of the CA's signature private keys throughout their lifecycle, and ensuring their secure destruction at their end-of-life;
- Being able to identify and authenticate its users;
- Limiting access to its services per the user and role assigned;
- Ability to carry out a series of tests to verify that it is running correctly and enter in a secure status if an error is detected;
- Create a secure electronic signature to sign the certificates generated by the CA, that does not reveal the CA's private keys and that cannot be falsified without knowing these private keys;
- Creating audit records for each modification relating to security;
- If a backup and restoration function for the CA's private keys is offered, guaranteeing the confidentiality and integrity of the backed-up data and demanding at least a double control of the backup and restoration operations.

10.2 Qualification Requirements

The cryptographic module used by the CA is:

- qualified at "Enforced" level by ANSSI according the process described by the RGS;
- Common Criteria at EAL 4+ level or FIPS 140-2 Level 3.

11 APPENDIX 2: SECURITY REQUIREMENTS FOR THE DEVICE USED BY THE SUBJECT

11.1 Security objectives requirements

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|--|---------------------------------------|
| CERTIGNA ENTITY CA | <i>Seal for mails/docs/timestamps</i> |
| CERTIGNA ENTITY CODE SIGNING CA | <i>Seal for code signing</i> |
| FR03 | <i>Seal for 2D-DOC</i> |
| RGS * | |
| RGS ** | |
| <p>The device used by the seal service to store and implement its private key, and, where appropriate, generate its key pair, must meet the following security requirements:</p> <ul style="list-style-type: none"> - If the seal service key pair is generated by the device, guaranteeing that this generation is implemented exclusively by authorized users and guaranteeing the cryptographic sturdiness of the generated key pair; - Ensuring the correspondence between the private key and the public key; - Generating a seal which cannot be falsified without knowing the private key; - Detecting defects during the initialization, customization and operation phases, and ensuring secure techniques for the destruction of the private key in case of re-generation of the private key; - Guaranteeing the private key's confidentiality and integrity; - Ensuring the public key's authenticity and integrity when exported outside of the device; - Ensuring for the legitimate server only, the electronic seals generation function, and protecting the private key against any usage by third parties. | |

| | |
|---|---------------------------|
| SERVICES CA | <i>Web Authentication</i> |
| WILD CA | <i>Web Authentication</i> |
| RGS * | |
| RGS ** | |
| <p>The device used by the server to store and implement its private key, and, where appropriate, generate its key pair, must meet the following security requirements:</p> <ul style="list-style-type: none"> - If the server key pair is generated by the device, guaranteeing that this generation is implemented exclusively by authorized users and guaranteeing the cryptographic sturdiness of the generated key pair; - Ensuring the correspondence between the private key and the public key; - the generated authentication cannot be falsified without knowing the private key; - Detecting defects during the initialization, customization and operation phases, and ensuring secure techniques for the destruction of the private key in case of re-generation of the private key; - Guaranteeing the private key's confidentiality and integrity; - Ensuring the public key's authenticity and integrity when exported outside of the device; - Ensuring for the legitimate server the authentication function and the session symmetric keys encipherment function and protecting the private key against any usage by third parties. - Ensure the authenticity and the integrity of the session symmetric key, after encipherment, during its export from the device to the data encipherment application. | |

| | |
|---|---------------------------------------|
| CERTIGNA IDENTITY CA | Authentication/signature/Encipherment |
| CERTIGNA IDENTITY PLUS CA | Authentication/signature |
| RGS * | |
| RGS ** | |
| RGS *** | |
| <p>The device used by the subject to store and implement its private key, and, where appropriate, generate its key pair, must meet the following security requirements:</p> <ul style="list-style-type: none"> - If the Subject key pair is generated by the device, guaranteeing that this generation is implemented exclusively by authorized users and guaranteeing the cryptographic sturdiness of the generated key pair; - Detecting defects during the initialization, customization and operation phases, and ensuring secure techniques for the destruction of the private key in case of re-generation of the private key; - Guaranteeing the private key's confidentiality and integrity; - Ensuring the correspondence between the private key and the public key; - Generating a security function which cannot be falsified without knowing the private key; - Ensuring for the legitimate subject only, the security function, and protecting the private key against any usage by third parties; - Ensuring the public key's authenticity and integrity when exported outside of the device. | |
| Encipherment | |
| <ul style="list-style-type: none"> - Ensure the decryption function, symmetric key file or message, to the lawful subject only and protect the private key against unauthorized use by third parties; - Allow to ensure the authenticity and integrity of the symmetric key file or message, once deciphered, at its export from the device to the data decryption application; - If necessary, help to ensure the confidentiality, authenticity and integrity of the private key in its export outside of the device, to an escrow or archiving private keys function. | |

11.2 Qualification Requirements

| | |
|---|--------------------------------|
| CERTIGNA ENTITY CA | Seal for mails/docs/timestamps |
| CERTIGNA ENTITY CODE SIGNING CA | Seal for code signing |
| FR03 | Seal for 2D-DOC |
| EN 319 411-2 QCP-I-qscd | |
| <p>The Key pair protection device provided by CA or used by the Certificate Manager is qualified as a « Qualified Seal Creation Device » (QSCD).</p> | |
| RGS * | |
| RGS ** | |
| <p>The key pair protection device used by the CA or the Certificate Manager is:</p> <ul style="list-style-type: none"> - Either a hardware device as a smart card or a cryptographic module qualified by ANSSI; - Or a software solution complying with the requirements of chapter 11.1 via the implementation of additional security measures specific to the environment in which the private key is deployed. This environment in which the private key is deployed must have undergone a security audit. | |

| | |
|---|---------------------------------------|
| CERTIGNA IDENTITY CA | Authentication/signature/Encipherment |
| CERTIGNA IDENTITY PLUS CA | Authentication/signature |
| EN 319 411-2 QCP-n-qscd | |
| <p>The Key pair protection device provided by CA or used by the subject is qualified as a « Qualified Signature Creation Device » (QSCD).</p> | |

RGS ***

The Key pair protection device provided by CA or used by the subject is qualified at least at the « Enforced » level by the ANSSI.

RGS **

The Key pair protection device provided by CA or used by the subject is qualified at least at the « Standard » level by the ANSSI.

RGS *

The Key pair protection device provided by CA or used by the subject is qualified at least at the « Elementary » level by the ANSSI.



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