



Document Information	
Name	SK ID Solutions AS - Certificate Policy for Qualified Smart-ID
Version number	6.0
Version No. and date	Changes
21.02.2020 6.0	<p>Added issuance of Q Smart-ID via Automated Biometric Identity Verification. Therefore, clauses 1.1, 1.3.2, 1.3.5, 1.6.1, 1.6.2, 3.2.3, 3.2.5, 4.1.2, 4.2.1, 4.2.2, 4.4.1 and 9.6.5 of this CP have been amended accordingly.</p> <p>Clause 1.5.4 - added that SK performs annual review of this CP.</p> <p>Clause 4.2.2 - added that CA shall refuse to issue a Certificate if the Subscriber's or his/her legal representative's data in the Certificate application does not match with the data from reliable source.</p> <p>Additionally replaced the grounds "The Subscriber's or his/her legal representative's data in Certificate request does not match with the data from reliable source" with the following "The Subscriber's or his/her legal representative's data in CSR does not match with the Subscriber's identification data in the Certificate application."</p> <p>Clause 4.9.1 - left out that if SK has withdrawn Identity Provider status, SK has the right to revoke all the Certificates which were issued for identities provided by this Identity Provider.</p>
08.11.2018 5.0	<p>Certification service for Q Smart-ID is provided in accordance with the requirements of the Policy QCP-n-qscd. Therefore, clauses 1.1, 1.2, 1.4.1, 1.4.2, 1.6.2, 6.1.1, 6.2.1 and 6.2.8 have been amended accordingly.</p> <p>Please note: Issuance of the Certificates for Q Smart-ID under the Policy QCP-n was performed until 07.11.2018. These Certificates shall be served in accordance with this Certificate Policy until the validity of the last Certificate pair issued under the Policy QCP-n.</p>
06.07.2018 4.1	<p>Specified circumstances for certificate re-key in clause 4.7.1;</p> <p>Clause 9.15 - replaced General Data Protection Act with General Data Protection Regulation;</p> <p>Amended the wording throughout the document;</p> <p>Updated the references in paragraph 10.</p>
01.06.2017 4.0	<p>Added requirements for Certificate issuance to minors. Therefore, clauses 3.2.5, 4.1.2 and 4.2.2 of this CP have been changed accordingly;</p> <p>Specified formulation and replaced "national population registry" with "reliable source" in clauses 4.1.2, 4.2.1 and 4.2.2 of this CP.</p>
01.04.2017 3.0	<p>Amended and corrected the CP throughout due to adding issuance of the Certificates in RA office;</p> <p>Amended the wording and added specifications and corrections throughout the document;</p>



	Clause 4.7.3 - specified formulation when old certificates shall be revoked.
16.01.2017 2.0	Chapter 1.1 - replaced existing identity document with valid Qualified Electronic Signature Certificate and added Q Smart-ID; left out description of issuance of Qualified Smart-ID in the next phases; Chapter 4.2.2 - added that CA may refuse to issue a Certificate if the Subscriber's signature of the application for Q Smart-ID is not given with his/her existing Q Smart-ID.
01.01.2017 1.0	First public edition.
Effective from date	21.02.2020



1. Introduction	9
1.1. Overview	9
1.2. Document Name and Identification	10
1.3. PKI Participants	11
1.3.1. Certification Authorities	11
1.3.2. Registration Authorities	11
1.3.3. Subscribers	11
1.3.4. Relying Parties	11
1.3.5. Other Participants	11
1.4. Certificate Usage	12
1.4.1. Appropriate Certificate Uses	12
1.4.2. Prohibited Certificate Uses	12
1.5. Policy Administration	13
1.5.1. Organization Administering the Document	13
1.5.2. Contact Person	13
1.5.3. Person Determining CPS Suitability for the Policy	13
1.5.4. CPS Approval Procedures	13
1.6. Definitions and Acronyms	14
1.6.1. Terminology	14
1.6.2. Acronyms	17
2. Publication and Repository Responsibilities	18
2.1. Repositories	18
2.2. Publication of Certification Information	18
2.2.1. Publication and Notification Policies	18
2.2.2. Items not Published in the Certification Practice Statement	18
2.3. Time or Frequency of Publication	18
2.3.1. Directory Service	18
2.4. Access Controls on Repositories	18
3. Identification and Authentication	18
3.1. Naming	18
3.1.1. Type of Names	18
3.1.2. Need for Names to be Meaningful	19
3.1.3. Anonymity or Pseudonymity of Subscribers	19
3.1.4. Rules for Interpreting Various Name Forms	19

3.1.5. Uniqueness of Names	19
3.1.6. Recognition, Authentication, and Role of Trademarks	19
3.2. Initial Identity Validation	19
3.2.1. Method to Prove Possession of Private Key	19
3.2.2. Authentication of Organization Identity	19
3.2.3. Authentication of Individual Identity	19
3.2.4. Non-Verified Subscriber Information	20
3.2.5. Validation of Authority	20
3.2.6. Criteria for Interoperation	20
3.3. Identification and Authentication for Re-Key Requests	20
3.3.1. Identification and Authentication for Routine Re-Key	20
3.3.2. Identification and Authentication for Re-Key After Revocation	20
3.4. Identification and Authentication for Revocation Request	20
4. Certificate Life-Cycle Operational Requirements	21
4.1. Certificate Application	21
4.1.1. Who Can Submit a Certificate Application	21
4.1.2. Enrolment Process and Responsibilities	21
4.2. Certificate Application Processing	22
4.2.1. Performing Identification and Authentication Functions	22
4.2.2. Approval or Rejection of Certificate Applications	22
4.2.3. Time to Process Certificate Applications	23
4.3. Certificate Issuance	23
4.3.1. CA Actions During Certificate Issuance	23
4.3.2. Notifications to Subscriber by the CA of Issuance of Certificate	23
4.4. Certificate Acceptance	23
4.4.1. Conduct Constituting Certificate Acceptance	23
4.4.2. Publication of the Certificate by the CA	23
4.4.3. Notification of Certificate Issuance by the CA to Other Entities	23
4.5. Key Pair and Certificate Usage	23
4.5.1. Subscriber Private Key and Certificate Usage	23
4.5.2. Relying Party Public Key and Certificate Usage	23
4.6. Certificate Renewal	23
4.7. Certificate Re-Key	24
4.7.1. Circumstances for Certificate Re-Key	24
4.7.2. Who May Request Certification of a New Public Key	24
4.7.3. Processing Certificate Re-Keying Requests	24



4.7.4. Notification of New Certificate Issuance to Subscriber	25
4.7.5. Conduct Constituting Acceptance of a Re-Keyed Certificate	25
4.7.6. Publication of the Re-Keyed Certificate by the CA	25
4.7.7. Notification of Certificate Issuance by the CA to Other Entities	25
4.8. Certificate Modification	25
4.9. Certificate Revocation and Suspension	25
4.9.1. Circumstances for Revocation	25
4.9.2. Who Can Request Revocation	26
4.9.3. Procedure for Revocation Request	26
4.9.4. Revocation Request Grace Period	26
4.9.5. Time Within Which CA Must Process the Revocation Request	26
4.9.6. Revocation Checking Requirements for Relying Parties	26
4.9.7. CRL Issuance Frequency	27
4.9.8. Maximum Latency for CRLs	27
4.9.9. On-Line Revocation/Status Checking Availability	27
4.9.10. On-Line Revocation Checking Requirements	27
4.9.11. Other Forms of Revocation Advertisements Available	27
4.9.12. Special Requirements Related to Key Compromise	27
4.9.13. Circumstances for Suspension	27
4.9.14. Who Can Request Suspension	27
4.9.15. Procedure for Suspension Request	27
4.9.16. Limits on Suspension Period	27
4.9.17. Circumstances for Termination of Suspension	27
4.9.18. Who Can Request Termination of Suspension	27
4.9.19. Procedure for Termination of Suspension	28
4.10. Certificate Status Services	28
4.10.1. Operational Characteristics	28
4.10.2. Service Availability	28
4.10.3. Operational Features	28
4.11. End of Subscription	28
4.12. Key Escrow and Recovery	28
4.12.1. Key Escrow and Recovery Policy and Practices	28
4.12.2. Session Key Encapsulation and Recovery Policy and Practices	28
5. Facility, Management, and Operational Controls	28
6. Technical Security Controls	28
6.1. Key Pair Generation and Installation	28



6.1.1. Key Pair Generation	28
6.1.2. Private Key Delivery to Subscriber	29
6.1.3. Public Key Delivery to Certificate Issuer	29
6.1.4. CA Public Key Delivery to Relying Parties	29
6.1.5. Key Sizes	29
6.1.6. Public Key Parameters Generation and Quality Checking	29
6.1.7. Key Usage Purposes (as per X.509 v3 Key Usage Field)	29
6.2. Private Key Protection and Cryptographic Module Engineering Controls	29
6.2.1. Cryptographic Module Standards and Controls	29
6.2.2. Private Key (n out of m) Multi-Person Control	29
6.2.3. Private Key Escrow	29
6.2.4. Private Key Backup	30
6.2.5. Private Key Archival	30
6.2.6. Private Key Transfer Into or From a Cryptographic Module	30
6.2.7. Private Key Storage on Cryptographic Module	30
6.2.8. Method of Activating Private Key	30
6.2.9. Method of Deactivating Private Key	30
6.2.10. Method of Destroying Private Key	30
6.2.11. Cryptographic Module Rating	30
6.3. Other Aspects of Key Pair Management	30
6.3.1. Public Key Archival	31
6.3.2. Certificate Operational Periods and Key Pair Usage Periods	31
6.4. Activation Data	31
6.4.1. Activation Data Generation and Installation	31
6.4.2. Activation Data Protection	31
6.4.3. Other Aspects of Activation Data	31
6.5. Computer Security Controls	31
6.5.1. Specific Computer Security Technical Requirements	31
6.5.2. Computer Security Rating	31
6.6. Life Cycle Technical Controls	31
6.6.1. System Development Controls	31
6.6.2. Security Management Controls	31
6.7. Life Cycle Security Controls	32
6.8. Network Security Controls	32
6.9. Time-Stamping	32
7. Certificate, CRL, and OCSP Profiles	32



7.1. Certificate Profile	32
7.2. CRL Profile	32
7.3. OCSP Profile	32
8. Compliance Audit and Other Assessments	32
9. Other Business and Legal Matters	32
9.1. Fees	32
9.1.1. Certificate Issuance or Renewal Fees	32
9.1.2. Certificate Access Fees	32
9.1.3. Revocation or Status Information Access Fees	33
9.1.4. Fees for Other Services	33
9.1.5. Refund Policy	33
9.2. Financial Responsibility	33
9.2.1. Insurance Coverage	33
9.2.2. Other Assets	33
9.2.3. Insurance or Warranty Coverage for End-Entities	33
9.3. Confidentiality of Business Information	33
9.3.1. Scope of Confidential Information	33
9.3.2. Information Not Within the Scope of Confidential Information	33
9.3.3. Responsibility to Protect Confidential Information	33
9.4. Privacy of Personal Information	33
9.4.1. Privacy Plan	33
9.4.2. Information Treated as Private	34
9.4.3. Information Not Deemed Private	34
9.4.4. Responsibility to Protect Private Information	34
9.4.5. Notice and Consent to Use Private Information	34
9.4.6. Disclosure Pursuant to Judicial or Administrative Process	34
9.4.7. Other Information Disclosure Circumstances	34
9.5. Intellectual Property rights	34
9.6. Representations and Warranties	34
9.6.1. CA Representations and Warranties	34
9.6.2. RA Representations and Warranties	34
9.6.3. Subscriber Representations and Warranties	34
9.6.4. Relying Party Representations and Warranties	34
9.6.5. Representations and Warranties of Other Participants	35
9.7. Disclaimers of Warranties	35
9.8. Limitations of Liability	35



9.9. Indemnities	35
9.10. Term and Termination	35
9.10.1. Term	35
9.10.2. Termination	35
9.10.3. Effect of Termination and Survival	35
9.11. Individual Notices and Communications with Participants	35
9.12. Amendments	35
9.12.1. Procedure for Amendment	36
9.12.2. Notification Mechanism and Period	36
9.12.3. Circumstances Under Which OID Must be Changed	36
9.13. Dispute Resolution Provisions	36
9.14. Governing Law	36
9.15. Compliance with Applicable Law	36
9.16. Miscellaneous Provisions	36
9.16.1. Entire Agreement	36
9.16.2. Assignment	37
9.16.3. Severability	37
9.16.4. Enforcement (Attorney's Fees and Waiver of Rights)	37
9.16.5. Force Majeure	37
9.17. Other Provisions	37
10. References	37

1. Introduction

1.1. Overview

This document, named "SK ID Solutions AS – Certificate Policy for qualified Smart-ID" (hereinafter referred to as CP), defines procedural and operational requirements that SK ID Solutions AS (hereinafter referred to as SK) adheres to and requires entities to adhere to when issuing and managing Certificates for the qualified Smart-ID (hereinafter referred to as Q Smart-ID). These Certificates facilitate electronic signatures and electronic authentication of natural persons. Each Q Smart-ID contains one pair of Certificates consisting of the Authentication Certificate and the Qualified Electronic Signature Certificate and their corresponding Private Keys. Each Private Key is protected by separate activation data (PIN code).

Q Smart-ID is the new generation electronic identification solution. Q Smart-ID is a PKI based personal identification tool which can be used to authenticate in different e-services and to give electronic signatures which are recognised in the EU member states.

The Subscriber may apply for a Q Smart-ID Account online or via Automated Biometric Identity Verification as well physically in the office. The user has to install the special application from Google Play or App Store and perform the registration process. The application can be used with any modern smartphone or tablet, no SIM-cards or card-readers are required. During the registration, the user is identified and Q Smart-ID is issued based on the user's Qualified Electronic Signature, Advanced Electronic Signature or handwritten signature. There is an option to upgrade from non-Qualified Smart-ID to Q Smart-ID.

A Subscriber can have several active Smart-ID Accounts. Every mobile device owned by the Subscriber may be related to only one Smart-ID Account, which contains a Certificate Pair. The Subscriber can keep track of Smart-ID Accounts by using a self-service Smart-ID Portal.

Issuing and managing Certificates for Q Smart-ID is based on [Regulation \(EU\) N° 910/2014 \[6\]](#) which establishes a legal framework for electronic signatures.

This document describes only restrictions to the Certificate policy for EU qualified certificates issued to natural persons with private key related to the certified public key in a QSCD (QCP-n-qscd) from [ETSI EN 319 411-2 \[4\]](#) and Normalised Certificate Policy requiring a Secure Cryptographic Device (NCP+) from [ETSI EN 319 411-1 \[3\]](#).

The semantics of “no stipulation in addition to QCP-n-qscd and NCP+” in this document is that no additional restrictions are set and relevant provisions from QCP-n-qscd and NCP+ are applied directly.

Issuing and managing Qualified Electronic Signature Certificates for Q Smart-ID is based on the requirements of the Policy QCP-n-qscd: Certificate policy for EU qualified certificates issued to natural persons with private key related to the certified public key in a QSCD.

Issuing and managing Authentication Certificates for Q Smart-ID is based on the requirements of the Policy NCP+: Normalised Certificate Policy requiring a Secure Cryptographic Device.

Q Smart-ID Certification Service Qualified Electronic Signature Certificates described in this CP SHALL be registered as a trust service according to the Trusted List of Estonia.

In the case of conflicts, the following documents SHALL be considered in the following order (prevailing ones first):

- QCP-n-qscd,
- NCP+,
- this CP,
- CPS.

To preserve [IETF RFC 3647 \[2\]](#) outline, this CP is divided into nine parts, section headings that do not apply, are designated as "**Not applicable**". Each top-level chapter includes references to the relevant sections in [ETSI EN 319 411-1 \[3\]](#) and [ETSI EN 319 411-2 \[4\]](#).

In this CP modal verbs in capital letters are to be interpreted as described in Clause 3.2 of the [ETSI Drafting Rules \[5\]](#) (Verbal forms for the expression of provisions).

Definitions and acronyms listed in Clause 1.6 of this CP, are written starting with a capital letter in this CP.

1.2. Document Name and Identification

Refer to Clause 5.3 of [ETSI EN 319 411-1 \[3\]](#) and [ETSI EN 319 411-2 \[4\]](#).

This document is named "SK ID Solutions AS – Certificate Policy for qualified Smart-ID".

This CP is identified by OID: 1.3.6.1.4.1.10015.17.2

OID is composed according to the contents of the following table.

Parameter	OID reference
Internet attribute	1.3.6.1
Private entity attribute	4
Registered business attribute given by private business manager IANA	1
SK attribute in IANA register	10015
Certification service attribute	17.2

Qualified Electronic Signature Certificate for Q Smart-ID issued to Subscribers SHALL include OID's of the following policies:

- [ETSI EN 319 411-2 \[4\]](#) clause 5.3 c) for QCP-n-qscd: 0.4.0.194112.1.2

ltu-t(0) identified-organization(4) etsi(0) qualified-certificate-policies(194112) policy-identifiers(1) qcp-natural-qscd (2)

and

- This CP.

Authentication Certificates for Q Smart-ID issued to Subscribers SHALL include OID's of the following policies:

- ETSI EN 319 411-1 [3] clause 5.3 b) for NCP+: 0.4.0.2042.1.2
itu-t(0) identified-Organisation(4) etsi(0) other-certificate-policies(2042) policy-identifiers(1) ncplusplus (2)
- This CP.

1.3. PKI Participants

Refer to Clause 5.4 of ETSI EN 319 411-1 [3] and ETSI EN 319 411-2 [4].

1.3.1. Certification Authorities

No stipulation in addition to QCP-n-qscd and NCP+.

1.3.2. Registration Authorities

In case of electronic authentication RA duties are performed by Smart-ID Provider.

In case of Subscriber Authentication via physical presence checks, RA duties are performed by customer service points.

1.3.3. Subscribers

Subscriber is the Subject of the Certificate issued under this CP.

Subscriber can be only a natural person.

1.3.4. Relying Parties

Relying Parties are legal or natural persons who are making decisions based on the Certificate.

E-service Provider is a 3rd party, which uses services provided by the Smart-ID System to authenticate Subscribers and to allow Subscribers to electronically sign documents or transactions.

1.3.5. Other Participants

Smart-ID Provider is an organisation that is legally responsible for the Smart-ID System.

SK fulfills the role of Smart-ID Provider. SK maintains Smart-ID platform, which consists of the Smart-ID App and the Smart-ID Server.

Identity Provider is an organisation who is providing electronic authentication means and who is responsible for creating electronic identities which are used for issuing Q Smart-ID Certificates.

Biometric Verification Provider is an organisation who offers eMRTD reading and validation services, service for biometric verification and liveness detection of Subscriber during Automated Biometric Identity Verification.

1.4. Certificate Usage

Refer to Clause 5.5 of ETSI EN 319 411-1 [3] and ETSI EN 319 411-2 [4].

1.4.1. Appropriate Certificate Uses

Subscriber Certificates are intended for the following purposes:

Certificate for Electronic Signature is intended for:

- creating Qualified Electronic Signatures compliant with eIDAS [6].

Authentication Certificate is intended for:

- Authentication.

CA Private Keys SHALL NOT be used to sign other types of Certificates except for the following:

- Subscriber Certificates compliant with NCP+ or QCP-n-qscd,
- OCSP response verification Certificates,
- Internal Certificates for technical needs.

1.4.2. Prohibited Certificate Uses

Subscriber Certificates issued under this CP SHALL NOT be used for any of the following purposes:

- unlawful activity (including cyber attacks and attempt to infringe the Certificate or the Smart-ID System),
- issuance of new Certificates and information regarding Certificate validity,
- enabling other parties to use the Subscriber's Private Key,
- enabling the Certificate issued for electronic signing to be used in an automated way,
- using the Certificate issued for electronic signing for signing documents which can bring about unwanted consequences (including signing such documents for testing purposes).



The Subscriber Authentication Certificate SHALL NOT be used to create Qualified Electronic Signatures compliant with eIDAS [6].

1.5. Policy Administration

1.5.1. Organization Administering the Document

This CP is administered by SK.

SK ID Solutions AS

Registry code 10747013

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<https://www.skidsolutions.eu/en>

1.5.2. Contact Person

Business Development Manager

Email: info@skidsolutions.eu

1.5.3. Person Determining CPS Suitability for the Policy

No stipulation in addition to QCP-n-qscd and NCP+.

1.5.4. CPS Approval Procedures

Amendments which do not change the meaning of this CP, such as spelling corrections, translation activities and contact details updates, SHALL be documented in the Versions and Changes section of this document.

In this case the fractional part of the document version number SHALL be enlarged.

In the case of substantial changes, the new CP version SHALL be clearly distinguishable from the previous ones, and the serial number SHALL be enlarged by one.

The amended CP along with the enforcement date, which cannot be earlier than 30 days after publication, SHALL be published electronically on SK website.

Amendments which are relevant to RA SHALL be coordinated with RA.

SK performs annual review of this CP to ensure compliance of the present document and Certification service provided under this CP with the applicable requirements.

All amendments SHALL be approved by the business development manager and amended CP SHALL be enforced by the CEO.

1.6. Definitions and Acronyms

1.6.1. Terminology

In this CP the following terms have the following meaning.

Term	Definition
Advanced Electronic Signature	Electronic Signature which meets the requirements provided in Article 26 of eIDAS [6] .
Advanced Electronic Signature Certificate	Advanced Electronic Signature Certificate according to eIDAS [6] .
Authentication	Unique identification of a person by checking his/her alleged identity.
Authentication Certificate	Certificate is intended for Authentication.
Automated Biometric Identity Verification	Remote on-boarding process for Q Smart-ID by using the Smart-ID App wherein the Subscriber's identity is verified by his/her biometric characteristics.
Biometric Verification Provider	An organisation who offers eMRTD reading and validation services, service for biometric verification and liveness detection of Subscriber during Automated Biometric Identity Verification.
Certificate	Public Key, together with additional information, laid down in the Certificate Profile [12] , rendered unforgeable via encipherment using the Private Key of the Certificate Authority which issued it.
Certificate Authority	A part of SK structure responsible for issuing and verifying electronic Certificates with its electronic signature.
Certificate Pair	A pair of Certificates consisting of one Authentication Certificate and one Qualified Electronic Signature Certificate.
Certificate Policy	A set of rules that indicates applicability of a specific Certificate to a particular community and/or PKI implementation with common security requirements.
Certificate Profile	Document that determines the information contained within a Certificate as well as the minimal requirements towards the Certificate.



Term	Definition
Certification Practice Statement	One of the several documents that all together form the governance framework in which Certificates are created, issued, managed and used.
Certification Service	Trust service related to issuing Certificates, managing suspension, termination of suspension, revocation, modification and re-key of the Certificates.
Distinguished Name	Subject name in the infrastructure of Certificates that is unique for every Subscriber.
E-Service Provider	A 3rd party, which uses services provided by the Smart-ID System to authenticate Subscribers and to allow Subscribers to electronically sign documents or transactions.
Identity Provider	An organisation who is providing electronic authentication means and who is responsible for creating electronic identities which are used for issuing Q Smart-ID Certificates. Identity Provider has been verified by Smart-ID Provider to follow the <u>Requirements for Identity Providers [13]</u> for qualified certificates.
Mobile Device	A tablet computer or smartphone that runs a mobile device operating system (Apple iOS, Google Android).
NQ Smart-ID	Smart-ID which contains one pair of Certificates consisting of the Authentication Certificate and the non-qualified Electronic Signature Certificate and their corresponding Private Keys. NQ Smart-ID is issued under the <u>SK ID Solutions AS - NQ-SK Certification Practice Statement [14]</u> .
Object Identifier	An identifier used to uniquely name an object (OID).
PIN code	Activation code for a Private Key.
Private Key	The key of a key pair that is assumed to be kept in secret by the holder of the key pair, and that is used to create electronic signatures and/or to decrypt electronic records or files that were encrypted with the corresponding Public Key. In the Smart-ID system, the value of Private Key itself is never generated and the Private Key exists only in the form of its components.
Public Key	The key of a key pair that may be publicly disclosed by the holder of the corresponding Private Key and that is used by Relying Parties to verify electronic signatures created with the holder's corresponding Private Key and/or to encrypt messages so that they can be decrypted only with the holder's corresponding Private Key.
Q Smart-ID	Smart-ID which contains one pair of Certificates consisting of the Authentication Certificate and the qualified Electronic Signature Certificate and their corresponding Private Keys.



Term	Definition
Qualified Electronic Signature	Qualified Electronic Signature according to <u>eIDAS [6]</u> .
Qualified Electronic Signature Certificate	Qualified Electronic Signature Certificate according to <u>eIDAS [6]</u> .
Registration Authority	Entity that is responsible for identification and Authentication of Subjects of Certificates. Additionally, the Registration Authority may accept Certificate applications, check the applications and/or forward the applications to the Certificate Authority.
Relying Party	Entity that relies on the information contained within a Certificate.
Smart-ID	Smart-ID is the new generation electronic ID which provides the Subscriber with means for Electronic Authentication and Electronic Signature.
Smart-ID Account	Subscriber has to register a Smart-ID Account to use services provided by the Smart-ID System. Smart-ID Account binds Smart-ID App instance to a Subscriber's identity in the Smart-ID System. In the course of Smart-ID Account creation and registration, the identity of the Smart-ID Account owner (Subscriber) is proofed by a Registration Authority and the relation between the identity and a key pair is certified by a Certificate Authority. Smart-ID Account has an Advanced or Qualified Electronic Signature key and an Authentication key.
Smart-ID App	A technical component of the Smart-ID System. A Smart-ID App installed on a Subscriber's Mobile Device that provides access to qualified Smart-ID service.
Smart-ID Portal	The interaction point with the Smart-ID System for the Subscriber that is accessible via a web browser. The Portal provides access to Smart-ID Account registration and management functionality.
Smart-ID Provider	An organisation that is legally responsible for the Smart-ID System. SK is the Smart-ID provider.
Smart-ID Server	A technical component of the Smart-ID System, handles back-end operations.
Smart-ID System	A technical and organisational environment which enables Electronic Authentication and Electronic Signatures in an electronic environment. The Smart-ID System provides services that allow Subscribers (Smart-ID Account owners) to authenticate themselves to services, to give Electronic Signatures, and to manage their Smart-ID Accounts.
Subject	In this document, the Subject is the same as the Subscriber.

Term	Definition
Subscriber	A natural person to whom the Q Smart-ID Certificates are issued.
Terms and Conditions	Document that describes obligations and responsibilities of the Subscriber with respect to using Certificates. The Subscriber has to be familiar with the document and accept the <u>Terms and Conditions [11]</u> upon receipt of the Certificates.
UTF-8	Variable length character encoding which uses 8 bit code units capable of encoding all possible characters defined by Unicode.
Verified Electronic Authentication	Electronic Authentication based on Identity Provider that has been verified to follow the <u>Requirements for Identity Providers [13]</u> for qualified certificates.

1.6.2. Acronyms

Acronym	Definition
CA	Certification Authority
CP	Certificate Policy. This document is a CP.
CPS	Certification Practice Statement
CSR	Certificate Signing Request
eIDAS	<u>Regulation (EU) No 910/2014 [6]</u> of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC.
eMRTD	Electronic Machine Readable Travel Document
EU	European Union
HSM	Hardware security module is a physical computing device that safeguards and manages digital crypton keys and provides cryptoprocessing.
NCP+	Normalised Certificate Policy requiring a Secure Cryptographic Device from <u>ETSI EN 319 411-1 [3]</u> .
OCSP	Online Certificate Status Protocol
OID	Object Identifier, a unique object identification code
PKI	Public Key Infrastructure
QCP-n-qscd	Policy for EU qualified Certificates issued to natural persons where the Private Key and the related Certificate reside on a QSCD from <u>ETSI EN 319 411-2 [4]</u> .
QSCD	Qualified Electronic Signature Creation Device
RA	Registration Authority
SK	SK ID Solutions AS, Certification Service provider

2. Publication and Repository Responsibilities

Refer to Clause 6.1 of ETSI EN 319 411-1 [3] and ETSI EN 319 411-2 [4].

2.1. Repositories

SK SHALL ensure that its repository is available 24 hours a day, 7 days a week with a minimum of 99% availability overall per year with a scheduled down-time that does not exceed 0,5% annually.

2.2. Publication of Certification Information

2.2.1. Publication and Notification Policies

This CP, the CPS [1], the Certificate Profile [12], as well as the Terms and Conditions [11] together with the enforcement dates SHALL be published on SK website <https://sk.ee/en/repository/> no less than 30 days prior to taking effect.

2.2.2. Items not Published in the Certification Practice Statement

Information about service levels, fees and technical details laid out in mutual agreements between SK, RA and E-Service Provider MAY be left out of CPS.

2.3. Time or Frequency of Publication

No stipulation in addition to QCP-n-qscd and NCP+.

2.3.1. Directory Service

Not applicable.

2.4. Access Controls on Repositories

No stipulation in addition to QCP-n-qscd and NCP+.

3. Identification and Authentication

Refer to Clause 6.2 of ETSI EN 319 411-1 [3] and ETSI EN 319 411-2 [4].

3.1. Naming

The Distinguished Name of the Subscriber SHALL comply with conventions set in the Certificate Profile [12].

3.1.1. Type of Names

No stipulation in addition to QCP-n-qscd and NCP+.

3.1.2. Need for Names to be Meaningful

All the values in the Subscriber information section of a Certificate SHALL be meaningful.

3.1.3. Anonymity or Pseudonymity of Subscribers

Not allowed.

3.1.4. Rules for Interpreting Various Name Forms

International letters SHALL be encoded in UTF-8.

3.1.5. Uniqueness of Names

SK SHALL ensure that Certificates with matching Common Name (CN) and SerialNumber fields are not issued to different Subscribers.

3.1.6. Recognition, Authentication, and Role of Trademarks

Not applicable.

3.2. Initial Identity Validation

3.2.1. Method to Prove Possession of Private Key

CSR SHALL be signed with the key for which the Certificate has been requested.

3.2.2. Authentication of Organization Identity

Not applicable.

3.2.3. Authentication of Individual Identity

RA SHALL perform Subscriber Authentication using means of Verified Electronic Authentication or via physical identification prior to requesting issuance of the Subscriber's Certificates from the CA.

In case of biometric verification, Biometric Verification Provider SHALL perform Subscriber Authentication by:

- verifying authenticity of the Subscriber's eMRTD presented for verification;
- reading the Subscriber's personal data from the Subscriber's eMRTD presented for verification;
- performing liveness detection of the Subscriber's facial image and
- performing match of the Subscriber's facial image captured in the liveness session during registration with the data set on the chip on his/her eMRTD presented for verification.

Application SHALL be signed with Qualified Electronic Signature compliant with eIDAS Regulation [6] or handwritten signature.

In case of Automated Biometric Identity Verification, application MAY be signed with valid Q Smart-ID Qualified Electronic Signature Certificate or Advanced Electronic Signature Certificate or NQ Smart-ID Advanced Electronic Signature Certificate.

3.2.4. Non-Verified Subscriber Information

Non-verified Subscriber information SHALL NOT be allowed in a Certificate.3

3.2.5. Validation of Authority

The Subscriber SHALL apply for Q Smart-ID only personally.

Applying for Q Smart-ID through a representative SHALL be permitted only to minors.

In case of Automated Biometric Identity Verification, applying for Q Smart-ID through a representative SHALL not be permitted.

The Subscriber SHALL have legal capacity, except for the minor.

CA MAY verify the right of representation of the Subscriber's legal representative.

3.2.6. Criteria for Interoperation

No stipulation in addition to QCP-n-qscd and NCP+.

3.3. Identification and Authentication for Re-Key Requests

3.3.1. Identification and Authentication for Routine Re-Key

RA SHALL perform Subscriber Authentication using means of Verified Electronic Authentication or via physical identification prior to requesting issuance of the Subscriber's Certificates from the CA.

Application SHALL be signed with Qualified Electronic Signature compliant with eIDAS Regulation [6], handwritten signature or existing valid Q Smart-ID Qualified Electronic Signature Certificate.

3.3.2. Identification and Authentication for Re-Key After Revocation

Refer to Clause 3.2 of this CP.

3.4. Identification and Authentication for Revocation Request

No stipulation in addition to QCP-n-qscd and NCP+.

4. Certificate Life-Cycle Operational Requirements

Refer to Clause 6.3 of [ETSI EN 319 411-1 \[3\]](#) and [ETSI EN 319 411-2 \[4\]](#).

4.1. Certificate Application

4.1.1. Who Can Submit a Certificate Application

Certificate application MAY be submitted by the Subscriber via RA.

SK SHALL accept Certificate applications only from RA.

Certificate application process SHALL ensure that the Subject has possession or control of the Private Key associated with the Public Key presented for certification.

4.1.2. Enrolment Process and Responsibilities

Subscriber WILL request for Certificates in the Smart-ID App upon successful Verified Electronic Authentication, biometric verification or physical identification in RA office.

RA or Biometric Verification Provider SHALL perform Subscriber Authentication.

CA MAY check the identity of the Subscriber or his/her legal representative.

In case of Automated Biometric Identity Verification, Certificates MAY be applied for:

- a Mobile Device with valid and active Smart-ID Account by using that Smart-ID Account in the same Mobile Device;
- a Mobile Device without valid and active Smart-ID Account by using valid and active Smart-ID Account that has been generated in another Mobile Device;
- a Mobile Device without valid and active Smart-ID Account by using that same device if the Subscriber does not have valid and active Smart-ID Account at the time of applying for Q Smart-ID.

In case of Automated Biometric Identity Verification, CA SHALL verify if:

- the Subscriber has valid and active Smart-ID Account; or
- the Subscriber has had Smart-ID Account.

In case of Automated Biometric Identity Verification, the Subscriber SHALL have had Smart-ID Account.

CA SHALL verify that the data in CSR matches the data in the Certificate used for application signing or with data on the application from customer service point.

If CA cannot verify the Subscriber or his/her legal representative or the right of representation of the legal representative from reliable source, CA SHALL NOT issue Certificate.

4.2. Certificate Application Processing

4.2.1. Performing Identification and Authentication Functions

The Subscriber's identity SHALL be validated by RA by means of Verified Electronic Authentication or physical identification or by Biometric Verification Provider in case of Automated Biometric Identity Verification.

The Subscriber SHALL accept the Terms and Conditions [11].

The Subscriber SHALL submit Certificate application.

RA SHALL submit a request for the Q Smart-ID Certificate issuance to the CA.

CA SHALL accept requests only from RA.

CA MAY check the identification data provided by RA against reliable source.

4.2.2. Approval or Rejection of Certificate Applications

CA SHALL refuse to issue a Certificate if:

- the Certificate request does not comply with the technical requirements set in the applicable agreements;
- the Subscriber's or his/her legal representative's data in the Certificate application does not match with the data from reliable source;
- the Subscriber's or his/her legal representative's data in CSR does not match with the Subscriber's identification data in the Certificate application;
- the Subscriber's or his/her legal representative's signature for the application for Q Smart-ID is invalid;
- the Subscriber's signature for the application for Q Smart-ID is not given with his/her valid Q Smart-ID/NQ Smart-ID or does not meet the requirements for Qualified Electronic Signature laid out in eIDAS Regulation [6];
- the signatory of the application for Q Smart-ID is a person other than the Subscriber or his/her legal representative;
- the Subscriber lacks legal capacity or his/her legal representative lacks right of representation;
- the eMRTD is unsuccessfully used for biometric verification and there is a reasonable doubt for its misuse;
- integrity and trustworthiness of the data read from the eMRTD cannot be verified;
- the eMRTD has not been issued by a respective document issuer;
- authenticity of the eMRTD cannot be verified;
- the facial image read from the data set on the chip on eMRTD does not match with the facial image of the Subscriber performing the liveness session;
- the liveness of the Subscriber's facial image cannot be verified;
- the eMRTD is expired or revoked.

If the CA refuses to issue a Certificate, RA and the Subscriber SHALL be notified.

4.2.3. Time to Process Certificate Applications

In accordance with the applicable agreements.

4.3. Certificate Issuance

4.3.1. CA Actions During Certificate Issuance

After the Subscriber has accepted the Certificate, OCSP SHALL start responding with "GOOD" and the Certificate SHALL be made available via the Smart-ID System.

4.3.2. Notifications to Subscriber by the CA of Issuance of Certificate

CA SHALL notify RA of the new Certificate issuance to the Subscriber.

Smart-ID App SHALL notify the Subscriber of the new Certificate issuance.

4.4. Certificate Acceptance

4.4.1. Conduct Constituting Certificate Acceptance

Smart-ID App SHALL notify the Subscriber of Certificate issuance.

Subscriber SHALL confirm correctness of the issued Certificate.

This confirmation SHALL be treated as Certificate acceptance.

4.4.2. Publication of the Certificate by the CA

Certificate SHALL be published by the CA immediately after the Subscriber has accepted it, OCSP SHALL start responding with "GOOD" and the Certificate SHALL be made available via the Smart-ID System.

4.4.3. Notification of Certificate Issuance by the CA to Other Entities

No stipulation in addition to QCP-n-qscd and NCP+.

4.5. Key Pair and Certificate Usage

4.5.1. Subscriber Private Key and Certificate Usage

No stipulation in addition to QCP-n-qscd and NCP+.

4.5.2. Relying Party Public Key and Certificate Usage

No stipulation in addition to QCP-n-qscd and NCP+.

4.6. Certificate Renewal

Not allowed.

4.7. Certificate Re-Key

Re-key is any repeated application for Q Smart-ID, if the Subscriber has a Q Smart-ID Account.

Repeated application for Q Smart-ID is processed same as the initial application for Q Smart-ID.

Certificate re-key SHALL be allowed also in the case of errors during certification.

4.7.1. Circumstances for Certificate Re-Key

If the Subscriber has had a Smart-ID previously, the Subscriber MAY apply for Certificate Re-Key.

Certificate re-key SHALL be allowed also for fixing invalid Certificates that do not comply with the Certificate Profile [12].

In case of re-key for fixing invalid Certificate, if the Subscriber's data has been changed, the Subscriber SHALL submit the new certificate application.

4.7.2. Who May Request Certification of a New Public Key

Subscriber together with RA CAN initiate the re-key process.

In case fixing invalid Certificate re-key MAY be performed by the CA internally.

SK SHALL NOT accept re-key requests from other parties except for the RA.

4.7.3. Processing Certificate Re-Keying Requests

The Certificate re-key process is as follows:

- RA SHALL Authenticate or identify the Subscriber as stated in Clause 3.3.1 of this CP;
- Upon successful Authentication, The Subscriber SHALL accept the Terms and Conditions [11];
- Smart-ID Server's and Smart-ID App's Private Keys are generated as described in Clause 6.1.1 of this CP;
- Smart-ID System SHALL apply for Certification at the CA on behalf of the Subscriber by sending a CSR to the CA;
- CA SHALL sign the Public Keys and OCSP SHALL start responding with "GOOD" and the Certificate SHALL be made available via the Smart-ID System.

In case the new Certificates are issued for a Mobile Device with an existing Smart-ID Account, old Certificates of the existing Smart-ID Account SHALL BE revoked.

In case fixing invalid Certificates the erroneous Certificates SHALL BE revoked.

In case fixing invalid Certificates only Smart-ID Server's Private Key is generated as described in Clause 6.1.1 of this CP.

4.7.4. Notification of New Certificate Issuance to Subscriber

CA SHALL notify RA of the new Certificate issuance to the Subscriber.

Smart-ID App SHALL notify the Subscriber of the new Certificate issuance.

4.7.5. Conduct Constituting Acceptance of a Re-Keyed Certificate

Refer to Clause 4.4.1 of this CP.

4.7.6. Publication of the Re-Keyed Certificate by the CA

Refer to Clause 4.4.2 of this CP.

4.7.7. Notification of Certificate Issuance by the CA to Other Entities

Refer to Clause 4.4.3 of this CP.

4.8. Certificate Modification

Not allowed.

4.9. Certificate Revocation and Suspension

4.9.1. Circumstances for Revocation

If the Subscriber loses control over one or more of the keys or PIN codes, the Subscriber SHALL apply for Certificate revocation immediately.

SK has the right to revoke Q Smart-ID Certificates if one or more of the following occurs:

- the Subscriber requests revocation of the Certificates using the Smart-ID App or Smart-ID Portal or using for identification the RA;
- the Subscriber has blocked the PIN codes;
- SK obtains evidence that Subscriber has lost control over Private Keys or PIN codes;
- the Subscriber notifies SK that the original Certificate request was not authorised and does not retroactively grant authorisation;
- SK obtains evidence that the Subscriber's Private Key corresponding to the Public Key in the Certificate suffered a key compromise or no longer complies with the requirements;
- SK obtains evidence that the Certificate was misused;
- SK is made aware that the Subscriber has violated one or more of its obligations under the Terms and Conditions [11];
- SK is made aware of a material change in the information contained in the Certificate;



- SK is made aware that the Certificate was not issued in accordance with the CPS and/or CP;
- SK determines that any of the information appearing in the Certificate is inaccurate or misleading;
- SK ceases operations for any reason and has not made arrangements for another CA to provide revocation support for the Certificate;
- SK's right to issue Certificates is revoked or terminated, unless SK has made arrangements to continue maintaining the OCSP repository;
- SK is made aware of a possible compromise of the Private Key of the SK CA used for issuing the Certificate;
- revocation is required by the CP;
- the technical content or format of the Certificate presents an unacceptable risk to Relying Parties.

In case of Certificate modification the erroneous Certificate SHALL BE revoked.

If new Certificates are issued for an existing Q Smart-ID account, old Certificates SHALL BE revoked.

4.9.2. Who Can Request Revocation

Subscriber MAY request revocation of the Subscriber's Certificates any time.

RA MAY request revocation of the Subscriber's Certificates on the basis of Subscriber application.

CA MAY request revocation for any of the reasons listed in Clause 4.9.1 of this CP.

4.9.3. Procedure for Revocation Request

Certificate revocation SHALL apply to all the Certificates related to the Subscriber's Smart-ID Account.

If one of the Certificates needs to be revoked, all the Certificates of the same Smart-ID Account SHALL BE revoked.

In case of a Smart-ID repeal, all related Certificates SHALL BE revoked.

4.9.4. Revocation Request Grace Period

No stipulation in addition to QCP-n-qscd and NCP+.

4.9.5. Time Within Which CA Must Process the Revocation Request

No stipulation in addition to QCP-n-qscd and NCP+.

4.9.6. Revocation Checking Requirements for Relying Parties

No stipulation in addition to QCP-n-qscd and NCP+.

4.9.7. CRL Issuance Frequency

Not applicable.

4.9.8. Maximum Latency for CRLs

Not applicable.

4.9.9. On-Line Revocation/Status Checking Availability

No stipulation in addition to QCP-n-qscd and NCP+.

4.9.10. On-Line Revocation Checking Requirements

No stipulation in addition to QCP-n-qscd and NCP+.

4.9.11. Other Forms of Revocation Advertisements Available

No stipulation in addition to QCP-n-qscd and NCP+.

4.9.12. Special Requirements Related to Key Compromise

No stipulation in addition to QCP-n-qscd and NCP+.

4.9.13. Circumstances for Suspension

Not allowed.

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.

4.9.17. Circumstances for Termination of Suspension

Not applicable.

4.9.18. Who Can Request Termination of Suspension

Not applicable.

4.9.19. Procedure for Termination of Suspension

Not applicable.

4.10. Certificate Status Services

4.10.1. Operational Characteristics

No stipulation in addition to QCP-n-qscd and NCP+.

4.10.2. Service Availability

SK SHALL ensure that its Certificate Status Services are available 24 hours a day, 7 days a week with a minimum of 99% availability overall per year with a scheduled down-time that does not exceed 0,5% annually.

4.10.3. Operational Features

No stipulation in addition to QCP-n-qscd and NCP+.

4.11. End of Subscription

No stipulation in addition to QCP-n-qscd and NCP+.

4.12. Key Escrow and Recovery

4.12.1. Key Escrow and Recovery Policy and Practices

Not allowed.

4.12.2. Session Key Encapsulation and Recovery Policy and Practices

Not applicable.

5. Facility, Management, and Operational Controls

Refer to Clause 6.4 of ETSI EN 319 411-1 [3] and ETSI EN 319 411-2 [4].

6. Technical Security Controls

Refer to Clause 6.5 of ETSI EN 319 411-1 [3] and ETSI EN 319 411-2 [4].

6.1. Key Pair Generation and Installation

6.1.1. Key Pair Generation

- Smart-ID Server and Smart-ID App SHALL generate RSA key pairs independently.
- Smart-ID Server's Private Key SHALL be generated on a QSCD.

- Smart-ID App SHALL further divide its Private Key into two parts. The two parts SHALL NOT BE distinguished from random numbers.
- Smart-ID App SHALL send one of these parts to the Smart-ID server over a secure communication channel.
- Smart-ID Application SHALL NOT store the key part sent to the Smart-ID Server, and SHALL store the other part encrypted and protected with activation data.

6.1.2. Private Key Delivery to Subscriber

Not applicable.

6.1.3. Public Key Delivery to Certificate Issuer

The Smart-ID Provider SHALL deliver the Public Key to the CA using a secure communication channel.

6.1.4. CA Public Key Delivery to Relying Parties

No stipulation in addition to QCP-n-qscd and NCP+.

6.1.5. Key Sizes

Allowed key sizes SHALL be as described in the [Certificate Profile \[12\]](#).

6.1.6. Public Key Parameters Generation and Quality Checking

No stipulation in addition to QCP-n-qscd and NCP+.

6.1.7. Key Usage Purposes (as per X.509 v3 Key Usage Field)

Allowed key usage flags SHALL be set as described in the [Certificate Profile \[12\]](#).

6.2. Private Key Protection and Cryptographic Module Engineering Controls

6.2.1. Cryptographic Module Standards and Controls

The HSM module used to generate server's Private Keys SHALL be a QSCD.

6.2.2. Private Key (n out of m) Multi-Person Control

No stipulation in addition to QCP-n-qscd and NCP+.

6.2.3. Private Key Escrow

No stipulation in addition to QCP-n-qscd and NCP+.

6.2.4. Private Key Backup

No stipulation in addition to QCP-n-qscd and NCP+.

6.2.5. Private Key Archival

No stipulation in addition to QCP-n-qscd and NCP+.

6.2.6. Private Key Transfer Into or From a Cryptographic Module

No stipulation in addition to QCP-n-qscd and NCP+.

6.2.7. Private Key Storage on Cryptographic Module

No stipulation in addition to QCP-n-qscd and NCP+.

6.2.8. Method of Activating Private Key

Each of the Q Smart-ID keys SHALL be protected with its PIN code.

The Subscriber SHALL be prompted to enter the PIN code before any single operation done with the Private Key.

It SHALL NOT be possible to try all possible PIN codes sequentially.

It SHALL be possible to create different PIN codes for the keys with different intended purposes - e.g. it SHALL be possible to create different PIN codes for the keys of the Authentication and Qualified Electronic Signature Certificates, correspondingly.

The length of the PIN codes SHALL be at least:

- for the Authentication Key 4 numbers,
- for the Signature Key 5 numbers.

6.2.9. Method of Deactivating Private Key

No stipulation in addition to QCP-n-qscd and NCP+.

6.2.10. Method of Destroying Private Key

No stipulation in addition to QCP-n-qscd and NCP+.

6.2.11. Cryptographic Module Rating

No stipulation in addition to QCP-n-qscd and NCP+.

6.3. Other Aspects of Key Pair Management

6.3.1. Public Key Archival

No stipulation in addition to QCP-n-qscd and NCP+.

6.3.2. Certificate Operational Periods and Key Pair Usage Periods

The validity period of the Subscriber Certificates SHALL NOT exceed the validity period stated in the Certificate Profile [12].

6.4. Activation Data

6.4.1. Activation Data Generation and Installation

The initial activation data SHALL be chosen by Subscriber or generated by the Smart-ID Application.

PIN codes SHALL NOT be stored by the Smart-ID Provider nor by the Smart-ID Application.

6.4.2. Activation Data Protection

The Subscriber SHALL memorise the PIN codes and not share them with anyone else.

PIN codes SHALL NOT be stored by the Smart-ID Provider nor by the Smart-ID Application.

If the PIN codes are not under the control of the Subscriber, the Subscriber SHALL apply for a new Q Smart-ID or apply for Certificate revocation immediately.

6.4.3. Other Aspects of Activation Data

No stipulation in addition to QCP-n-qscd and NCP+.

6.5. Computer Security Controls

6.5.1. Specific Computer Security Technical Requirements

No stipulation in addition to QCP-n-qscd and NCP+.

6.5.2. Computer Security Rating

No stipulation in addition to QCP-n-qscd and NCP+.

6.6. Life Cycle Technical Controls

6.6.1. System Development Controls

No stipulation in addition to QCP-n-qscd and NCP+.

6.6.2. Security Management Controls

No stipulation in addition to QCP-n-qscd and NCP+.

6.7. Life Cycle Security Controls

No stipulation in addition to QCP-n-qscd and NCP+.

6.8. Network Security Controls

No stipulation in addition to QCP-n-qscd and NCP+.

6.9. Time-Stamping

No stipulation in addition to QCP-n-qscd and NCP+.

7. Certificate, CRL, and OCSP Profiles

Refer to Clause 6.6 of [ETSI EN 319 411-1 \[3\]](#) and [ETSI EN 319 411-2 \[4\]](#).

7.1. Certificate Profile

The Certificate SHALL comply with the profile described in the [Certificate Profile \[12\]](#).

7.2. CRL Profile

Not applicable.

7.3. OCSP Profile

The OCSP responses SHALL comply with the profile described in the [Certificate Profile \[12\]](#).

8. Compliance Audit and Other Assessments

Refer to Clause 6.7 of [ETSI EN 319 411-1 \[3\]](#) and [ETSI EN 319 411-2 \[4\]](#).

9. Other Business and Legal Matters

Refer to Clause 6.8 of [ETSI EN 319 411-1 \[3\]](#) and [ETSI EN 319 411-2 \[4\]](#)

9.1. Fees

9.1.1. Certificate Issuance or Renewal Fees

No stipulation in addition to QCP-n-qscd and NCP+.

9.1.2. Certificate Access Fees

No stipulation in addition to QCP-n-qscd and NCP+.

9.1.3. Revocation or Status Information Access Fees

No stipulation in addition to QCP-n-qscd and NCP+.

9.1.4. Fees for Other Services

No stipulation in addition to QCP-n-qscd and NCP+.

9.1.5. Refund Policy

No stipulation in addition to QCP-n-qscd and NCP+.

9.2. Financial Responsibility

9.2.1. Insurance Coverage

No stipulation in addition to QCP-n-qscd and NCP+.

9.2.2. Other Assets

No stipulation in addition to QCP-n-qscd and NCP+.

9.2.3. Insurance or Warranty Coverage for End-Entities

No stipulation in addition to QCP-n-qscd and NCP+.

9.3. Confidentiality of Business Information

No stipulation in addition to QCP-n-qscd and NCP+.

9.3.1. Scope of Confidential Information

No stipulation in addition to QCP-n-qscd and NCP+.

9.3.2. Information Not Within the Scope of Confidential Information

No stipulation in addition to QCP-n-qscd and NCP+.

9.3.3. Responsibility to Protect Confidential Information

No stipulation in addition to QCP-n-qscd and NCP+.

9.4. Privacy of Personal Information

9.4.1. Privacy Plan

No stipulation in addition to QCP-n-qscd and NCP+.



9.4.2. Information Treated as Private

No stipulation in addition to QCP-n-qscd and NCP+.

9.4.3. Information Not Deemed Private

No stipulation in addition to QCP-n-qscd and NCP+.

9.4.4. Responsibility to Protect Private Information

No stipulation in addition to QCP-n-qscd and NCP+.

9.4.5. Notice and Consent to Use Private Information

No stipulation in addition to QCP-n-qscd and NCP+.

9.4.6. Disclosure Pursuant to Judicial or Administrative Process

No stipulation in addition to QCP-n-qscd and NCP+.

9.4.7. Other Information Disclosure Circumstances

No stipulation in addition to QCP-n-qscd and NCP+.

9.5. Intellectual Property rights

SK obtains intellectual property rights to this CP.

9.6. Representations and Warranties

9.6.1. CA Representations and Warranties

No stipulation in addition to QCP-n-qscd and NCP+.

9.6.2. RA Representations and Warranties

No stipulation in addition to QCP-n-qscd and NCP+.

9.6.3. Subscriber Representations and Warranties

No stipulation in addition to QCP-n-qscd and NCP+.

9.6.4. Relying Party Representations and Warranties

Relying Party SHALL verify the validity of the Certificate using validation services offered by SK prior to using the Certificate.

Relying Party SHALL consider the limitations stated in the Certificate and SHALL ensure that the transaction to be accepted corresponds to this CP.



9.6.5. Representations and Warranties of Other Participants

Before giving out Identity Provider status to entity, Smart-ID Provider SHALL evaluate the identity quality level of the entity by verifying that this entity is following Requirements for Identity Providers [13] for qualified certificates.

In case Smart-ID Provider obtains evidence that Identity Provider has not been following Requirements for Identity Providers [13] for qualified certificates it CAN withdraw Identity Provider status of this entity.

Identity Provider SHALL follow the Requirements for Identity Providers [13] for qualified certificates.

Biometric Verification Provider SHALL follow the requirements stipulated in the agreement concluded with SK.

9.7. Disclaimers of Warranties

No stipulation in addition to QCP-n-qscd and NCP+.

9.8. Limitations of Liability

No stipulation in addition to QCP-n-qscd and NCP+.

9.9. Indemnities

No stipulation in addition to QCP-n-qscd and NCP+.

9.10. Term and Termination

9.10.1. Term

Refer to Clause 2.2.1 of this CP.

9.10.2. Termination

This CP SHALL remain in force until it is replaced by the new version or when it is terminated due to the CA termination or when the service is terminated and all the Certificates therefore become invalid.

9.10.3. Effect of Termination and Survival

SK SHALL communicate the conditions and effect of termination of this CP.

9.11. Individual Notices and Communications with Participants

No stipulation in addition to QCP-n-qscd and NCP+.

9.12. Amendments

9.12.1. Procedure for Amendment

Refer to Clause 1.5.4 of this CP.

9.12.2. Notification Mechanism and Period

Refer to Clause 1.5.4 of this CP.

9.12.3. Circumstances Under Which OID Must be Changed

OID SHALL change when the scope of this CP changes or when the new type of the Certificate emerges.

9.13. Dispute Resolution Provisions

No stipulation in addition to QCP-n-qscd and NCP+.

9.14. Governing Law

This CP is governed by the jurisdictions of the European Union and Estonia.

9.15. Compliance with Applicable Law

SK SHALL ensure compliance with the following requirements:

- [eIDAS \[6\]](#) - Regulation (EU) No 910/2014 of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC,
- [Electronic Identification and Trust Services for Electronic Transactions Act \[7\]](#);
- [General Data Protection Regulation \[9\]](#);
- related European Standards:
 - [ETSI EN 319 401 Electronic Signatures and Infrastructures \(ESI\); General Policy Requirements for Trust Service Providers \[10\]](#);
 - [ETSI EN 319 411-1 Electronic Signatures and Infrastructures \(ESI\); Policy and Security requirements for Trust Service Providers issuing certificates; Part 1: General requirements \[3\]](#);
 - [ETSI EN 319 411-2 Electronic Signatures and Infrastructures \(ESI\); Policy and security requirements for Trust Service Providers issuing certificates; Part 2: Policy requirements for certification authorities \[4\]](#);
 - [EN 419 211 Protection profiles for secure signature creation device \[8\]](#).

9.16. Miscellaneous Provisions

9.16.1. Entire Agreement

No stipulation in addition to QCP-n-qscd and NCP+.

9.16.2. Assignment

No stipulation in addition to QCP-n-qscd and NCP+.

9.16.3. Severability

No stipulation in addition to QCP-n-qscd and NCP+.

9.16.4. Enforcement (Attorney's Fees and Waiver of Rights)

No stipulation in addition to QCP-n-qscd and NCP+.

9.16.5. Force Majeure

No stipulation in addition to QCP-n-qscd and NCP+.

9.17. Other Provisions

Not allowed.

10. References

1. SK ID Solutions AS - EID-SK Certification Practice Statement, published: <https://www.skidsolutions.eu/en/repository/CPS/>;
2. RFC 3647 – Request For Comments 3647, Internet X.509 Public Key Infrastructure, Certificate Policy and Certification Practices Framework, published: <https://www.ietf.org/rfc/rfc3647.txt>;
3. ETSI EN 319 411-1 V1.2.2 (2018-04) Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates; Part 1: General Requirements;
4. ETSI EN 319 411-2 V2.2.2 (2018-04) Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates; Part 2: Requirements for trust service providers issuing EU qualified certificates;
5. ETSI Drafting Rules (Verbal forms for the expression of provisions);
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