

SK ID Solutions AS – Certification Practice Statement for Organisation Certificates

Version 10.0

12.07.2021

| Version and Changes | | |
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| Date | Version | Changes |
| 12.07.2021 | 10.0 | <ul style="list-style-type: none"> Approved version Description of new SK`s PKI hierarchy has been added to this CPS. Therefore clause 1.1 has been amended accordingly. Please note TLS Server Certificates were issued until 1. September 2017. Servicing of the Certificates was carried out until September 2020. As of 30. September 2020 SK no longer provides certification service nor certificate status information for TLS Server Certificates. In relation to the aforementioned, clauses 1.1, 1.3.3, 1.4, 1.5.4, 1.6, 2.2, 4.5, 4.9.1, 4.9.3, 6.2.1, 6.2.6, 9.1.5, 9.6.1 and 9.6.4 have been amended accordingly. Specified that Certificates can be issued to any of the European Economic Area member state and United Kingdom of Great Britain and Northern Ireland. Therefore, clause 3.2.2.1 of this CPS has been amended accordingly. Clauses 1.5.2, 1.5.4 and 4.3.1 – replaced business development manager with head of trust services. Clause 4.9.9 – specified that OCSP responses for the Certificates issued by either KLASS3-SK 2010 or KLASS3-SK 2016 are signed by OCSP signer certificates. Updated SK`s website hostname throughout this document. |
| 10.04.2020 | 9.0 | <ul style="list-style-type: none"> Clause 4.9.3 – added that in case of revocation of the Certificates, OCSP stops responding with status “GOOD”; Clause 4.9.15 – added that in case of suspension of an e-Seal Certificate, OCSP stops responding with status “GOOD”; Clause 4.9.19 – added that in case of termination of suspension of an e-Seal Certificate, OCSP starts responding with status “GOOD”. |
| 15.08.2019 | 8.0 | <ul style="list-style-type: none"> Approved version Clause 1.5.4 – added that SK performs annual review of this CPS; Clause 4.2.1 – due to removal of Organizational Unit (OU) field from the Certificate, left out that SK can change the value in the corresponding field. |
| 22.05.2019 | 7.0 | <ul style="list-style-type: none"> Current CPS has been reviewed to ensure compliance with the latest Baseline Requirements [8], ETSI EN 319 411-1 [8] and ETSI EN 319 411-2 [7] Policies; As Certificates are published in a new Directory Service at k3.ldap.sk.ee, clauses 4.4.2 and 9.1.2 of this CPS have been amended accordingly. |
| 04.01.2019 | 6.0 | <ul style="list-style-type: none"> Clause 1.1 - added new certificate chain and updated figure of PKI hierarchy; Clause 1.6.1 – specified the definition for CRL; Clause 2.2.1 – added statement that SK provides the capability to allow third parties to check and test Certificates it issues, and that test Certificates clearly indicate that they are for testing purposes; Clause 4.9.7 – added statement that CRL is signed by Klass3-SK 2010; |

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| | | <ul style="list-style-type: none"> • Clause 4.9.9 – added that OCSP contains Certificate status information until the Certificate expires; • Clause 4.9.11 - added how revocation status information of the expired Certificate can be requested; • Clause 4.11 – removed maximum validity period of the Certificate and stated that it is described in the Certificate Profile; added that subscription ends due to expiration of the Certificate; • Clause 9.6.1 - added statements on how SK contributes to making its services accessible to people with disabilities. |
| 30.11.2017 | 5.0 | <ul style="list-style-type: none"> • Approved version • As issuance of TLS Server Certificates is terminated by SK as of 1. September 2017, all relevant procedures and content have been left out from the CPS. Therefore, clauses 1.1, 1.3.1, 1.6.2, 2.2.1, 3.1.1, 3.1.2, 3.1.5, 3.2, 3.2.1, 3.2.2.1, 3.2.2.2, 3.2.2.3, 3.2.4, 4.1.1, 4.1.2, 4.2, 4.2.1, 4.2.2, 4.2.3, 4.3.1, 4.3.2, 4.4.2, 4.7, 4.8, 6.1.1, 9.1.1, 9.1.5, 9.6.1 and 9.6.2.1 have been changed accordingly; • Clause 4.11 – corrected maximum validity period of the Certificate; • Clause 6.4.2 – corrected the clause by stating that if SK generates activation codes, they are delivered or handed over to the Subscriber in a secure envelope separately from QSCD. |
| 01.09.2017 | 4.1 | <ul style="list-style-type: none"> • Draft of version 5.0 |
| 03.07.2017 | 4.0 | <ul style="list-style-type: none"> • Approved version • Clause 1.6.1 – corrected terminology and replaced the term “digital” with “electronic”; added terms Advanced Electronic Signature and Qualified Electronic Signature; • Clause 3.2.2.1 – specified that the registries are accessible at: https://ariregister.rik.ee/; removed the restriction that Certificate for Encryption or Authentication or TLS Server Certificate can only be issued to the Subscriber registered in the Estonian, Latvian, Lithuanian, Finnish or Swedish Business Register and who is discoverable from the European Business Register; added that SK verifies on a case by case basis that the register used as a source for certificate issuance has legal effect; added SK’s activities if the register does not have legal effect; amended formulation; • Clause 3.2.5 – added specifications that application for an e-Seal Certificate is signed with Qualified Electronic Signature, and application for Certificate for Encryption or Authentication and TLS Server Certificate signed with an Advanced or Qualified Electronic Signature; added statement on how the right of representation and validity of notarized documents is checked; removed the statement the right of representation is checked from the European Business Register. • Clause 4.1.2 - added specifications that application for an e-Seal Certificate is signed with Qualified Electronic Signature, and application for Certificate for Encryption or Authentication and TLS Server Certificate signed with an Advanced or Qualified Electronic Signature; added secondary option for the Subscriber to submit the Certificate application to the Customer Service Point; amended formulation; • Clause 4.2.1 – added that if an application is submitted for e-Seal Certificate, the CA verifies that the CA that issued the Certificate used for Qualified Electronic Signature, has physically identified the Subscriber’s legal representative or authorised person before issuing the Certificate to him/her. |

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| 04.04.2017 | 3.1 | <ul style="list-style-type: none"> • Draft of version 4.0 |
| 01.06.2017 | 3.0 | <ul style="list-style-type: none"> • Approved version • Due to change of SK's business name from AS Sertifitseerimiskeskus to SK ID Solutions AS, name of the CPS has been changed accordingly. Also, former business name has been replaced with the new one in clauses 1, 1.1, 1.2, 1.5.1 and 1.6.2 of this CPS; • Added new CA KLASS3-SK 2016 to this CPS. Therefore, the name of the CPS has been changed so it would apply to the new CA as well, the name of the document has been changed in clause 1.2 of this CPS; • Chapter 1.1 – complemented the clause with the new CA and described its operations, as well as operations of the old CA; • Chapter 1.3.1 – added the certificate profile of the new CA; • Chapter 5.6 – generalised the formulation by stating that the public key of the CA does not change. |
| 01.03.2017 | 2.1 | <ul style="list-style-type: none"> • Draft of version 3.0 |
| 03.02.2017 | 2.0 | <ul style="list-style-type: none"> • Approved version • Chapter 1.0 - Removed paragraph which stated that the current document is a redesign of the previous "AS Sertifitseerimiskeskus – Certification Practice Statement" and "Certification Policy for Organisation Certificates". Additionally, removed information which described how references to ETSI EN 319 411-1 and Baseline Requirements are included in the CPS. • Chapter 1.1 – Added that SK always ensures compliance with the latest versions of the applicable ETSI standards, Baseline Requirements and Browser Root Program Requirements; left out root certification authority "Juur-SK" and updated the figure showing the relations between the Root CA, Subordinate CA-s and the CP-s; • Chapter 1.2 – Left out "This is the first version of this document"; • Chapter 1.5.4 – Added procedure for CPS amendment in case of changes in compliance requirements; • Chapter 2.2.1 – Added that the CPS and related documents can be published 30 days prior to taking effect; • Chapter 4.9.9 – Added "An OCSP service serves as a primary source for the Certificate status information."; • Chapter 5.6 – Specified that distinguished name of the CA consists of the number of year which the CA was issued; • Chapter 9.6.4 – Added "A Relying Party uses CRL service on its own responsibility." |
| 01.11.2016 | 1.1 | <ul style="list-style-type: none"> • Draft of version 2.0 |
| 01.07.2016 | 1.0 | <ul style="list-style-type: none"> • Approved version • Chapter 1.0 – Added ETSI EN 319 411-2 Policy: QCP-I; • Chapter 1.0 - Added that e-Seal Certificates are also issued under ETSI EN 319 411-2 Policy: QCP-I; • Chapter 1.6 – added acronym gTLD; • Chapter 2.2 – Added URLs for revoked and expired certificates; • Chapter 3.1.2 – Added value in the Common Name field; • Chapter 3.2.2.1 – Specified issuance of e-Seal Certificates; • Chapter 3.2.2.2 – Added verification of Commonly Recognised Name; • Chapter 3.2.5 – Specified verification of right of representation; • Chapter 4.1.2 – Added requirements on the Secure Cryptographic Device; |

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| | | <ul style="list-style-type: none"> • Chapter 4.1.2.1 – Added requirements for the Certificate application; • Chapter 4.2 – Specified the scope of dual control; • Chapter 4.2.1 – Specified the grounds on which SK can change value in Certificate fields; • Chapter 4.3.1 – Added possibility to issue e-Seal Certificate on Secure Cryptographic Device; • Chapter 4.6 – Specified notification of the Subscriber of the Certificate expiry; • Chapter 4.9 – Added identification of the person filing revocation application. Added statement that revoked Certificate can not be reinstated. • Chapter 4.9.15 – Specified procedure for suspension request; • Chapter 4.9.19 – Added submission of application for termination of suspension and identification of the person filing application for termination of suspension. Added statement on the obligation to submit an application for revocation. • Chapter 4.10.1 – Added that URLs of the CDP is included in the certificates issued until 1 July 2016. • Chapter 5.6 – Added information on key changeover; • Chapter 6.1.1 - Added specification on Secure Cryptographic Device; • Chapter 6.2.1 – Specified Cryptographic Module Standards and Controls; • Chapter 6.2.6 – Added Secure Cryptographic Device; • Chapter 6.4.1 – Added requirements on activation codes. |
| 01.04.2016 | 0.1 | <ul style="list-style-type: none"> • Draft of version 1.0 |

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1. Introduction

SK ID Solutions AS (SK) was founded on March 26th 2001. The owners of the limited liability company are AS Swedbank, AS SEB Pank and Telia Eesti AS. The principal activities of SK are offering trust services and related technical solutions in the Baltic region. These services guarantee secure and verified electronic communication with public institutions as well as businesses in everyday life.

Inspired by the ETSI EN 319 400 series, SK has divided its documentation into three parts:

- SK Trust Services Practice Statement (SK PS) describes general practices common to all trust services;
- Certification Practice Statements and Time-Stamping Practice Statements describe parts that are specific to each Subordinate CA or Time-Stamping Unit;
- Technical Profiles are in separate documents.

Pursuant to the IETF RFC 3647 [1] this CPS is divided into nine parts. To preserve the outline specified by RFC 3647 [1], section headings that do not apply have the statement "**Not applicable**". References to SK PS and Certificate Profile documents are included where applicable.

1.1. Overview

This CPS describes the practices used to comply with "SK ID Solutions AS - Certificate Policy for Organisation Certificates" [2] (CP).

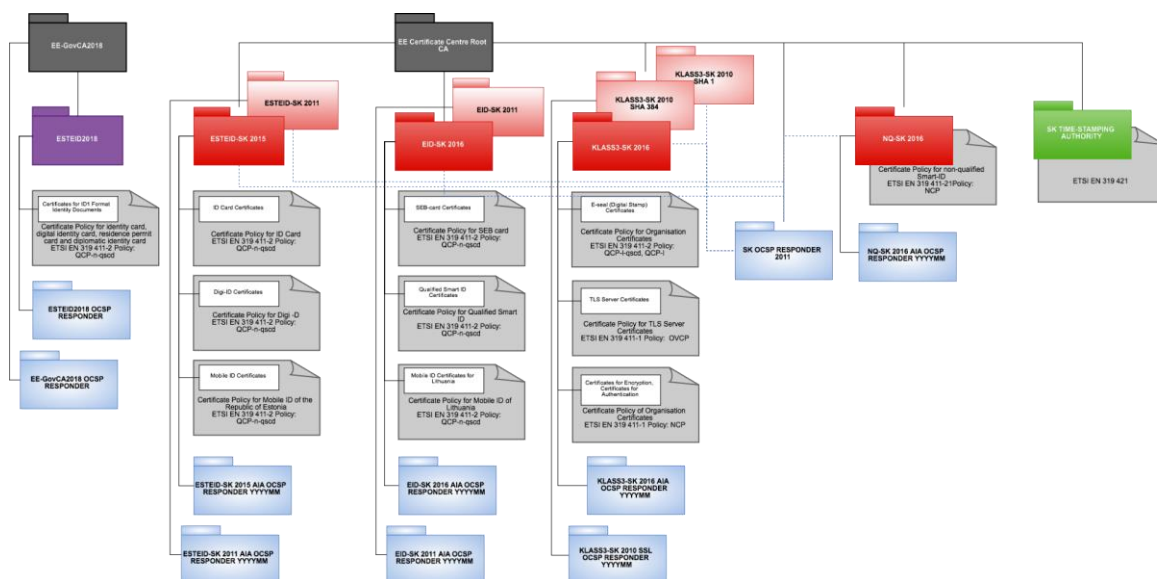
The policy is compliant with ETSI EN 319 411-1 Policy: NCP[8] and ETSI EN 319 411-2 Policy: QCP-I-qscd and QCP-I [7].

SK always ensures compliance with the latest versions of the referred documents.

SK is currently using two certificate chains. Root certification authorities are EE Certification Centre Root CA, and EE-GovCA2018.

The relations between EE Certification Centre Root CA, its subordinate CAs and the CPs as well as the relation between EE-GovCA2018 and its subordinate CA and the CP are shown on the following figure:

- 1) EE Certification Centre Root CA chain, valid 2010-2030;
- 2) EE-GovCA2018 chain, valid 2018-2033.

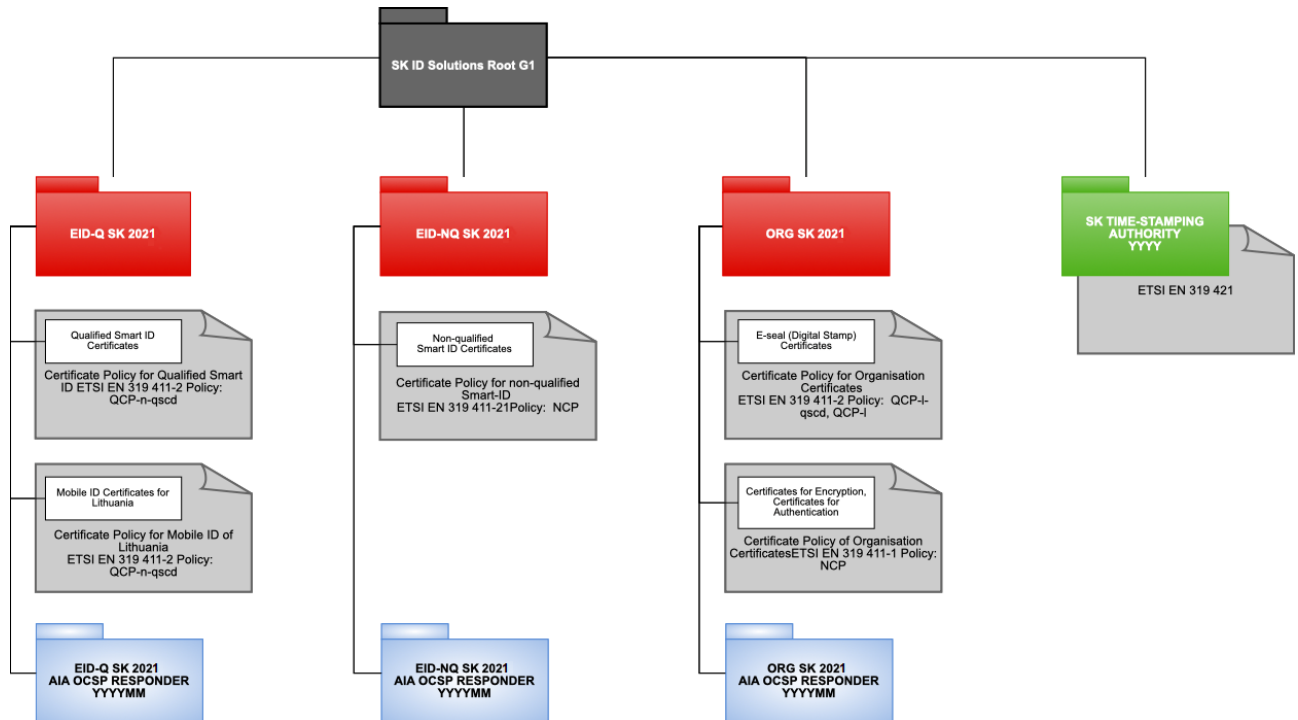


Provided that all the applicable legal requirements (conformity assessment as well as granted status by the Supervisory Body) are met, Certificates will be issued under the new, SK ID Solutions Root G1 chain. Issuing CA will be ORG-SK 2021.

The Certificates issued by the intermediate CA-s KLASS3-SK 2010 and KLASS3-SK 2016 will be served until expiry of the last Certificate issued by them.

The relations between SK ID Solutions Root G1 and its subordinate CAs and the CPs are shown on the following figure:

SK ID Solutions Root G1 chain, valid 2021-2036



The root EE Certification Centre Root CA has certified KLASS3-SK 2010 and KLASS3-SK 2016. The Root CA certificates and other certificates necessary for PKI operations are available from SK's website at <https://www.skidsolutions.eu/en/repository/certs/>.

This CPS covers operations of KLASS3-SK 2010 and KLASS3-SK 2016. The latter is the current issuing CA, whereas KLASS3-SK 2010 serves status information for the previously issued Certificates.

The certification service for e-Seal Certificates described in this CPS has qualified status in the Trusted List of Estonia.

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

- ETSI Policies NCP, QCP-l-qscd and QCP-l;
- CP;
- This CPS.

1.2. Document Name and Identification

This document is called "SK ID Solutions AS – Certification Practice Statement for Organisation Certificates".

1.3. PKI Participants

1.3.1. Certification Authorities

SK operates as a CA.

The Certificates are issued and served by the intermediate CA KLASS3-SK 2016. Intermediate CA KLASS3-SK 2010 is solely providing Certificate status information. The CA-s are identified by the following certificates:

1) KLASS3-SK 2010

Certificate:

Data:

Version: 3 (0x2)

Serial Number:

0a:19:b7:e3:1f:1a:87:70:55:70:57:9d:96:cd:9c:da

Signature Algorithm: sha384WithRSAEncryption

Issuer: C=EE, O=AS Sertifitseerimiskeskus, CN=EE Certification Centre Root CA/emailAddress=pki@sk.ee

Validity

Not Before: Jun 4 13:50:21 2015 GMT

Not After: Mar 17 22:00:00 2024 GMT

Subject: C=EE, O=AS Sertifitseerimiskeskus, OU=Sertifitseerimisteenused, CN=KLASS3-SK 2010

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

Public-Key: (2048 bit)

Modulus:

00:ab:95:a6:11:5f:6b:fc:f6:4f:07:77:40:03:68:
e7:e7:51:c2:27:ee:23:3a:68:e5:e4:01:1f:a3:a7:
9f:36:ed:98:43:a8:3c:8d:75:d1:7d:65:4a:01:80:
f8:21:18:d2:2b:90:76:c7:ee:ac:1e:c7:7f:58:9c:
8d:24:6b:6e:25:0a:37:30:10:cb:d0:30:f6:f2:3e:
75:ff:6b:84:72:27:ec:04:66:db:66:8c:19:7e:f8:
57:eb:64:ae:78:2f:eb:c3:ec:3c:b2:e1:86:01:d0:
e8:3d:92:d0:78:aa:9b:6c:0c:18:fe:82:28:af:fc:
c1:8f:78:67:8d:b3:74:da:70:97:4d:6f:bf:b7:b2:
99:53:3e:d3:ca:94:37:eb:b9:fb:ea:e0:7e:a3:34:
eb:fd:4b:d6:c2:fa:3d:95:55:8f:6e:08:55:d4:ae:
8f:00:03:78:68:38:42:89:75:28:e5:a5:80:9a:e7:
53:7c:28:62:d5:25:84:6e:73:f2:bc:d7:1a:a2:d3:
9e:09:cf:e0:b2:fc:76:3f:01:c5:e4:93:62:64:c6:
5a:49:a0:45:e6:72:e4:e4:c6:33:bf:40:4f:d7:6d:
df:a6:44:91:e7:ab:af:87:ba:b3:a2:29:cc:4a:c1:
90:8f:01:af:9d:f9:db:d1:3e:46:f2:ab:da:21:31:
71:fd

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Basic Constraints: critical

CA:TRUE, pathlen:0

X509v3 Key Usage: critical

Digital Signature, Non Repudiation, Certificate Sign, CRL Sign

X509v3 Certificate Policies:

Policy: 1.3.6.1.4.1.10015.100.1.1.1

CPS: <https://www.sk.ee/cps>

User Notice:

Explicit Text:

X509v3 Subject Key Identifier:

5D:75:14:11:8C:F4:A5:8E:42:8F:7B:B2:40:44:A3:EE:D6:7A:3B:72

X509v3 Authority Key Identifier:

keyid:12:F2:5A:3E:EA:56:1C:BF:CD:06:AC:F1:F1:25:C9:A9:4B:D4:14:99

Authority Information Access:

OCSP - URI: <http://ocsp.sk.ee/CA>

CA Issuers - URI: http://www.sk.ee/certs/EE_Certification_Centre_Root_CA.der.crt

X509v3 CRL Distribution Points:

Full Name:

URI: <http://www.sk.ee/repository/crls/eccrca.crl>

Signature Algorithm: sha384WithRSAEncryption

78:ff:44:cb:5d:db:4c:4e:7c:e5:f1:9f:35:d2:54:77:a4:44:
82:ab:ab:9e:41:1b:c6:3c:f9:76:8a:c1:9e:de:57:40:f4:f8:
4a:67:b8:fa:df:6d:e2:7c:8d:a5:74:e7:4c:79:4d:76:81:de:
29:ce:e1:d7:89:e1:42:d5:88:6c:c2:a5:c2:47:58:6e:2c:db:
b5:28:0f:0f:46:18:31:74:e0:50:d5:eb:51:4a:46:53:21:fb:
4c:84:18:29:c6:8b:76:4e:ee:06:db:12:90:ef:07:de:b5:da:
a7:ad:44:3f:bb:ef:81:b8:08:6e:1c:0d:b1:b2:66:b6:df:a7:
90:ef:3d:e2:ce:8c:42:39:27:3e:14:ca:50:4f:f4:98:f4:db:
ca:b5:99:66:14:43:f2:73:16:71:bb:4b:96:09:0b:41:6f:1f:
9b:fc:c0:18:2a:0a:b6:fe:f3:2f:2c:ee:25:c9:1a:a4:79:24:
6e:2c:c6:53:e0:00:38:d8:78:20:81:4c:0b:ee:15:a2:c1:e7:
72:12:ab:f0:ab:44:a0:dd:ef:76:17:6c:01:7d:ff:97:6a:1f:
d6:79:90:62:a3:1b:a5:d5:34:6d:cc:57:20:7b:a0:53:7c:5d:
92:d1:17:5b:69:a3:96:79:7b:1b:35:a0:3f:6b:36:78:5a:b3:
63:d4:24:ef

2) KLASS3-SK 2016

Certificate:

Data:

Version: 3 (0x2)

Serial Number:

5e:53:3b:13:25:60:34:2b:58:49:57:30:8b:30:78:dc

Signature Algorithm: sha384WithRSAEncryption

Issuer: C=EE, O=AS Sertifitseerimiskeskus, CN=EE Certification Centre Root CA/emailAddress=pki@sk.ee

Validity

Not Before: Dec 8 12:50:56 2016 GMT

Not After : Dec 17 23:59:59 2030 GMT

Subject: C=EE, O=AS Sertifitseerimiskeskus, OU=Sertifitseerimisteenus/2.5.4.97=NTREE-10747013, CN=KLASS3-SK 2016

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

Public-Key: (4096 bit)

Modulus:

00:96:43:8b:78:a4:0f:28:ad:54:f1:52:bb:cf:60:
f3:b7:64:97:d8:a6:e5:1a:aa:c1:98:e5:df:ce:52:
26:cd:71:f1:19:5a:29:49:e8:e2:db:fe:0c:75:1e:
4e:93:a3:49:a9:7c:5a:9d:bc:ae:7d:75:d1:4d:eb:
84:e6:74:3c:3a:5c:eb:e7:ef:54:db:50:cf:99:55:
00:0c:53:56:9c:32:f2:e8:d5:b2:a8:4d:c2:be:b6:
29:ee:d5:4e:1d:b7:d3:6f:d3:1f:dc:40:af:40:db:
7c:60:cd:07:1b:07:52:7d:cf:24:19:7b:97:f1:de:

28:8b:1c:5e:1b:80:03:fb:0a:e3:d7:e2:c9:d2:2a:
1a:40:59:52:e9:36:dc:c2:ad:f1:10:ed:16:56:fd:
61:32:b2:4e:a0:c9:8f:a5:aa:ab:bd:12:dc:a2:29:
29:9a:39:cf:9b:f1:ad:7f:1e:b8:15:cc:97:88:c9:
8d:c4:50:e7:44:e5:4c:82:bd:4e:40:a6:f1:01:d9:
57:dc:8b:b7:d9:f7:17:8d:77:ac:09:37:00:08:b9:
4d:44:c8:b9:49:bd:70:a3:08:c6:12:9a:8b:d8:7e:
77:f8:90:c8:ad:d1:3b:84:cd:2e:52:a5:f8:69:a4:
f9:7a:d6:94:87:4a:36:87:13:81:1e:0d:e6:e9:64:
40:66:60:4f:a8:ed:41:a8:80:4d:e8:f4:4c:59:88:
1a:6f:b0:41:b4:93:14:29:71:3e:15:46:8d:cb:d2:
db:f2:3a:da:5f:ce:6d:dc:8c:0d:fe:16:db:33:1d:
f0:50:0a:99:be:84:15:21:a2:6e:da:db:0f:f1:e4:
c6:25:47:7a:8c:44:bd:ab:da:c7:ef:cf:0b:35:fd:
b0:f6:8d:7a:6e:5a:f5:70:cd:00:93:37:db:3d:fd:
64:b4:29:44:45:c4:1d:fa:21:21:00:f9:6e:4a:32:
b0:30:72:1e:85:14:06:c0:61:ae:a3:b7:5b:e1:05:
ca:85:70:d7:3c:62:b9:61:1c:3a:43:9e:a6:a7:e0:
69:4a:a2:49:aa:97:65:40:28:9e:11:76:c7:9b:db:
07:b2:83:f9:c9:a4:32:81:92:3c:9c:9a:5d:d2:79:
69:75:c4:ea:f7:56:84:8e:b5:ae:ba:4b:10:4c:d0:
c6:f7:ef:bc:35:20:2a:97:61:bf:05:50:9e:b1:6c:
7f:cd:1d:0a:b5:c5:9e:70:c3:d4:55:f7:bb:a8:41:
05:ba:b5:ac:7b:0a:4b:81:91:6c:93:94:4b:b4:d1:
b0:c9:31:20:1c:70:5f:26:a0:09:0b:c9:76:54:c7:
db:6e:c1:16:fa:d7:23:74:ca:9b:e8:11:e0:4f:a8:
4d:0b:1f

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Basic Constraints: critical

CA:TRUE, pathlen:0

X509v3 Key Usage: critical

Digital Signature, Non Repudiation, Certificate Sign, CRL Sign

X509v3 Certificate Policies:

Policy: 1.3.6.1.4.1.10015.7.3

CPS: <https://www.sk.ee/cps>

User Notice:

Explicit Text:

Policy: 2.23.140.1.2.2

Policy: 1.3.6.1.4.1.10015.7.2

Policy: 0.4.0.2042.1.1

Policy: 0.4.0.194112.1.1

Policy: 0.4.0.2042.1.7

Policy: 0.4.0.194112.1.3

X509v3 Subject Key Identifier:

AE:5E:58:F5:F2:F2:D9:C1:8E:D9:EF:4E:07:DB:75:CA:50:E2:87:00

X509v3 Authority Key Identifier:

keyid:12:F2:5A:3E:EA:56:1C:BF:CD:06:AC:F1:F1:25:C9:A9:4B:D4:14:99

Authority Information Access:

OCSP - URI: <http://ocsp.sk.ee/CA>

CA Issuers - URI: http://sk.ee/certs/EE_Certification_Centre_Root_CA.der.crt

X509v3 CRL Distribution Points:

Full Name:

URI: <http://www.sk.ee/repository/crls/eccrca.crl>

Signature Algorithm: sha384WithRSAEncryption
6a:1d:af:1a:a8:be:3d:ee:7e:08:fb:5a:ae:1d:2f:09:05:8e:
9b:6d:f7:9e:5e:58:f6:a2:fe:26:a1:b9:3d:c7:28:c1:0e:35:
93:37:f8:aa:49:e6:3f:a0:47:7e:2b:18:19:0b:11:73:be:4a:
d3:b0:3e:fc:17:65:16:b2:cc:6c:fd:df:16:cb:93:8b:bf:87:
02:60:23:5d:81:2a:df:91:b8:f4:60:10:83:9d:be:1e:f6:62:
05:ef:91:b5:b4:7c:c8:e3:9a:af:97:c0:2a:7c:d2:d7:23:72:
f4:cd:73:ee:0e:f2:31:c1:28:ba:4d:d3:51:e6:de:d9:a6:a7:
32:fc:da:6d:ce:ea:81:5d:c7:18:37:d9:93:38:4b:f4:f9:5c:
8e:61:65:d0:b4:04:7e:57:9f:ff:ab:1d:32:1c:ba:0b:41:e2:
76:2b:5d:2d:25:19:61:f4:b2:48:9a:5b:ea:5b:c9:04:67:4d:
e1:5a:db:a3:67:cd:b4:bd:ea:21:cf:af:5f:52:6f:87:fa:8b:
14:81:66:15:7b:82:ea:52:23:14:91:6d:a4:86:c2:21:03:2d:
1e:83:17:74:8d:40:e4:9c:f3:92:6a:d3:2c:f4:d2:60:30:10:
5d:79:fd:44:f9:f3:b1:1c:f6:1a:79:58:45:5e:31:19:ac:83:
19:b5:32:a3

1.3.2. Registration Authorities

SK operates as an RA.

1.3.2.1 Customer Service Point

SK operates as a Customer Service Point.

Contact information:

Pärnu mnt 141, 11314 Tallinn, Estonia

(Mon-Fri 9.00 a.m. - 6.00 p.m. Eastern European Time)

Tel +372 610 1880

Email: info@skidsolutions.eu

Revocation and Suspension requests are accepted 24/7 at:

Tel +372 610 1880

Email: revoke@sk.ee

The most recent information on Customer Service Point and its contact details is available on SK's website:
<https://www.skidsolutions.eu/en/kontakt/>

1.3.3. Subscribers

Refer to clause 1.3.3 of the CP [2].

1.3.4. Relying Parties

A Relying Party is a natural or legal person who takes a decision relying on the Certificate issued by SK.

1.3.5. Other Participants

Not applicable.

1.4. Certificate Usage

Refer to clause 1.4 of the CP [2].

1.5. Policy Administration

1.5.1. Organisation Administering the Document

This CPS is administered by SK.

SK ID Solutions AS

Registry code 10747013

Pärnu mnt 141, 11314 Tallinn

Tel +372 610 1880

Fax +372 610 1881

Email: info@skidsolutions.eu

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

1.5.2. Contact Person

Head of trust services

Email: info@skidsolutions.eu

1.5.3. Person Determining CPS Suitability for the Policy

Not applicable.

1.5.4. CPS Approval Procedures

Amendments which do not change the meaning of the CPS, such as corrections of misspellings, translation and updating of contact details, are documented in the Versions and Changes section of the present document and the fraction part of the document version number is enlarged.

In case the CP [2] is amended, the CPS is reviewed as well in order to verify the need for its amendments.

In case of substantial changes, the new CPS version is clearly distinguishable from the previous ones. The new version bears a serial number enlarged by one. The amended CPS along with the enforcement date, which cannot be earlier than 90 days after publication, is published electronically on SK's website.

Within 30 days of amendment publication, the Subscriber has the chance to provide reasoned comments followed by maximum 30-day period for comment analysis by SK. 60 days after the amendment publication, the new version of CPS is published electronically on SK's website, otherwise the amendment is withdrawn.

In case of changes in compliance requirements, the new CPS version is clearly distinguishable from the previous ones. The new version bears a serial number enlarged by one. The amended CPS along with the enforcement date, which cannot be earlier than 30 days after publication, is published electronically on SK's website.

SK performs annual review of this CPS to ensure compliance of the present document and services provided based on this CPS with the applicable requirements.

All amendments are to be approved by the head of trust services and the amended CPS is enforced by the CEO.

1.6. Definitions and Acronyms

1.6.1. Terminology

In this CPS the following terms have the following meaning.

| Term | Definition |
|---|---|
| Advanced Electronic Signature | Electronic Signature which meets the requirements provided in Article 26 of eIDAS [9]. |
| Authentication | Unique identification of a person by checking his/her alleged identity. |
| Certificate | e-Seal Certificate, Certificate for Encryption and Certificate for Authentication. Within the meaning of this CPS, the term "Certificate" encompasses all the previously listed certificates. |
| Certificate Policy | A set of rules that indicates the applicability of a named certificate to particular community and/or PKI implementation with common security requirements. |
| Certification Practice Statement | One of several documents forming the governance framework in which certificates are created, issued, managed, and used. |
| Certificate Profile | Document that determines the profile and minimum requirements for the Certificate. |
| Certificate Revocation List | A list of invalid (revoked, suspended) Certificates. CRL contains suspended and revoked Certificates during their validity period, i.e. until they expire. |
| Certification Service | Issuing certificates, managing suspension, termination of suspension, revocation, modification and re-key. |
| Directory Service | Certificate validity information publication service. |
| Distinguished Name | Unique subject name in the infrastructure of certificates. |
| Encrypting | Information treatment method changing the information unreadable for those who do not have necessary skills or rights. |
| Integrity | A characteristic of an array: information has not been changed after the array was created. |
| OID | An identifier used to name an object (OID). |
| Private Key | The key of a key pair that is kept 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. |
| Public Key | The key pair that may be publicly disclosed by the holder of corresponding private key and that is used by Relying Party 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. |
| Qualified Electronic Signature | Qualified Electronic Signature according to eIDAS [9]. |
| Qualified Electronic Signature/Seal Creation Device | A secure signature creation device that meets the requirements laid down in eIDAS regulation [9]. |
| Relying Party | Entity that relies upon either the information contained within a Certificate or Certificate status information provided by SK. |
| Registration Authority | Entity that is responsible for identification and authentication of subjects of certificates. Additionally, an RA may accept certificate applications, check the applications and/or forward the applications to the CA. |

| | |
|-----------------------------|--|
| Secure Cryptographic Device | Device that holds the user's Private Key, protects this key against compromise and performs signing or decryption functions on behalf of the user. |
| Subscriber | Legal person bound by agreement with CA to any Subscriber obligations. |
| Terms and Conditions | Document that describes the obligations and responsibilities of the Subscriber while using the Certificate. The Subscriber must be familiar with the document and accept the terms and conditions described within when receiving the Certificate. |

1.6.2. Acronyms

| Acronym | Definition |
|---------|---|
| CA | Certification Authority |
| CP | Certificate Policy for Organisation Certificates [2] |
| CPS | Certification Practice Statement for Organisation Certificates |
| CRL | Certificate Revocation List |
| CSR | Certificate Signing Request |
| eIDAS | 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 [9] . |
| HSM | Hardware Security Module |
| QSCD | Qualified electronic Signature/Seal Creation Device |
| OID | Object Identifier, a unique object identification code |
| RA | Registration Authority |
| SK | SK ID Solutions AS, provider of the certification services |
| SK PS | SK ID Solutions AS Trust Services Practice Statement [6] |
| URI | Unified Resource Identifier |

2. Publication and repository responsibilities

2.1. Repositories

Refer to clause 2.1 of SK ID Solutions AS Trust Services Practice Statement [\[6\]](#) (SK PS).

2.2. Publication of Certification Information

Refer to clause 2.2 of SK PS [\[6\]](#).

2.2.1. Publication and Notification Policies

This CPS is published on SK's website: <https://www.skidsolutions.eu/en/repository/CPS/>

This CPS and referred documents – the CP [\[2\]](#), the “Certificate, CRL and OCSP Profile for Organisation Certificates Issued by SK” [\[4\]](#) (Certificate Profile) as well as the Terms and Conditions [\[3\]](#) with the enforcement dates are published no less than 30 days prior to taking effect.

SK provides the capability to allow third parties to check and test Certificates it issues.

Test Certificates clearly indicate that they are for testing purposes.

2.2.2. Items not Published in the Certification Practice Statement

Refer to clause 9.3.1 of SK PS [\[6\]](#).

2.3. Time or Frequency of Publication

Refer to clause 2.2.1 of this CPS.

2.3.1. Directory Service

Refer to clause 2.3.1 of SK PS [\[6\]](#).

2.4. Access Controls on Repositories

Refer to clause 2.4 of SK PS [\[6\]](#).

3. Identification and authentication

3.1. Naming

Types of names assigned to the Subscriber are described in the Certificate Profile [\[4\]](#).

3.1.1. Types of Names

Refer to clause 3.1.1 of the CP [\[2\]](#).

3.1.2. Need for Names to be Meaningful

Names are meaningful on the following fields of e-Seal Certificate, Certificate for Encryption and Certificate for Authentication:

- Organisation (O): Legal name of the Subscriber;
- Common Name (CN): Legal or Commonly Recognised name of the Subscriber, optionally followed by intended usage for the certificate;
- Organization Identifier: Pursuant to syntax described in the CP [\[2\]](#), identifier of the registry used, followed by registration number of the Subscriber.

3.1.3. Anonymity or Pseudonymity of Subscribers

Not applicable.

3.1.4. Rules for Interpreting Various Name Forms

Rules for interpreting various name forms are described in the Certificate Profile [\[4\]](#).

3.1.5. Uniqueness of Names

In order to assure that the certificate with an identical Subscriber's distinguished name is not issued to another Subscriber, the Subscriber's name in the Organization (O) field is checked by SK according to clause 3.2 of this CPS. Only Legal Names of Subscribers are allowed on the Organization (O) field.

3.1.6. Recognition, Authentication, and Role of Trademarks

The Subscriber must prove its entitlement to use all trademarks that are requested for inclusion into the certificate.

3.2. Initial Identity Validation

Refer to clause 3.2 of the CP [\[2\]](#).

3.2.1. Method to Prove Possession of Private Key

In order to apply for the e-Seal Certificate, Certificate for Encryption and Authentication, the Subscriber can electronically submit a CSR in PKCS#10 [\[5\]](#) format, which contains the Public Key of the legal person and is signed with the corresponding Private Key. The integrity of the signing request allows SK to presume that the corresponding Private Key is in the legal person's possession.

If SK has granted the authority to generate the Public and Private Key for the Subscriber, the conformity is guaranteed by the internal procedures of SK and the Subscriber does not have to electronically submit the CSR.

3.2.2. Authentication of Organisation and Domain Identity

3.2.2.1. Identity

E-Seal Certificates and Certificates for Encryption and Authentication are issued only to Subscribers registered in:

- the Estonian Business Register; or
- the Estonian Non-Profit Associations and Foundations Register; or
- the Estonian Register of State and Local Government Organisations; or

- one of the European Economic Area member state business registries; or
- United Kingdom of Great Britain and Northern Ireland business register.

The Estonian Business Register, the Estonian Non-Profit Associations and Foundations Register and the Estonian Register of State and Local Government Organisations are accessible at: <https://ariregister.rik.ee/>.

SK verifies on a case by case basis that the register used as a source for certificate issuance has legal effect.

If the register is considered not to have legal effect, the Subscriber submits notarized and apostilled application and document about the right of representation to the Customer Service Point. In that case, notary is verified by SK from European Directory of Notaries (<http://www.notaries-directory.eu/>).

SK verifies that the Subscriber is not bankrupt or in the process of liquidation and its activities are not suspended or in other similar state in accordance with legislation of its country of origin.

3.2.2.2. DBA/Tradenname

In case any value on the field of the certificate is uncommon or unidentified from the registries listed in clause 3.2.2 of this CPS, SK verifies if the value is a trademark by submitting a query to the Trademarks database of the Estonian Patent Office (<http://www2.epa.ee/Patent/mark.nsf/SearchEngl?OpenForm>).

If necessary, SK requires the Subscriber to present a copy of the trademark certificate.

Commonly Recognised Name is verified by professional skills of the Customer Service Point employee.

3.2.2.3. Verification of Country

SK verifies that the Country Name field in the request for the certificate matches the registry listed in clause 3.2.2.1 of this CPS in which the Subscriber is registered.

3.2.3. Authentication of Individual Identity

Not applicable.

3.2.4. Non-Verified Subscriber Information

Refer to clause 3.2.4 of the CP [2].

3.2.5. Validation of Authority

As the application for an e-Seal Certificate is submitted and signed electronically with Qualified Electronic Signature compliant to eIDAS [9], and the application for the Certificate for Encryption and Authentication submitted and signed electronically with an Advanced or Qualified Electronic Signature compliant to eIDAS [9], physical presence of the Subscriber's legal representative or authorised person is not required.

For Estonian organizations, the right of representation of the Subscriber's legal representative is checked by reviewing the Subscriber's registry card data in the Estonian Business Register or the Estonian Non-Profit Associations and Foundations Register. The right of representation of the Subscriber's legal representative is also checked by reviewing relevant laws, statutes of the state and local government organisation and decrees issued by the signatory of the state and local government organisation.

For organizations registered in Europe, the right of representation of the Subscriber's legal representative is checked from the origin register where the Subscriber is registered.

If the Subscriber's representative submits notarized and apostilled document about his/her right of representation, SK verifies validity of the document by checking the substance of the document and notary from European Directory of Notaries (<http://www.notaries-directory.eu/>).

The validity of letter of attorney of the Subscriber's authorised person is verified by checking the substance of the letter of attorney and the right of representation of the Subscriber's legal representative. Letters of attorney can be submitted electronically or delivered to the Customer Service Point.

3.2.6. Criteria for Interoperation

Not applicable.

3.3. Identification and Authentication for Re-Key Requests

3.3.1. Identification and Authentication for Routine Re-Key

Refer to clause 3.2.2 of this CPS.

3.3.2. Identification and Authentication for Re-Key after Revocation

Refer to clause 3.2.2 of this CPS.

3.4. Identification and Authentication for Revocation Request

If the revocation request is submitted by the Subscriber, a Supervisory Body or court, the request is authenticated as described in clause 3.2.2 of this CPS.

For suspension, the requester is identified and the validity of the request is verified using professional skills of Customer Service Point employee.

4. Certificate life-cycle operational requirements

4.1. Certificate Application

4.1.1. Who Can Submit a Certificate Application

Any person with access to public Internet can submit an application for the certificate to SK.

4.1.2. Enrolment Process and Responsibilities

The Subscriber files an application for the requested certificate on SK's website at <https://www.skidsolutions.eu/en/services/>. The application for e-Seal Certificate is signed with Qualified Electronic Signature compliant with eIDAS [9], and the application for Certificate for Encryption and Authentication with an Advanced or Qualified Electronic Signature compliant with eIDAS [9] by the legal person's representative or authorised person.

If the Subscriber does not have the ability to electronically sign the application, the Subscriber submits notarized and apostilled application and document about the right of representation to the Customer Service Point. In that case, notary is verified by SK from European Directory of Notaries (<http://www.notaries-directory.eu/>).

Upon submitting an application for the certificate, the Subscriber confirms the correctness and integrity of the information presented to SK.

Upon submitting an application for the certificate, the Subscriber confirms agreement to the Terms and Conditions [3].

In case of an e-Seal Certificate issued on QSCD issued under policy QCP-I-qscd application based on the CSR, the Subscriber confirms that the private key is stored on a QSCD and it has possession over the device.

In case of an e-Seal Certificate issued on Secure Cryptographic Device under policy QCP-I, the Subscriber confirms that the private key is stored on:

- Federal Information Processing Standards Publication 140-2 level 2 (FIPS 140-2 Level 2) or higher; or
- Common Criteria (CC) (Standard EN 419 211, Protection Profiles for Secure Signature Creation and other related devices).

SK checks the correctness and integrity of the information provided in the application.

SK checks the validity of a Common Criteria Certificate issued for a QSCD in accordance with clause 4.1.2.2 of this CPS.

SK is entitled to adopt additional checks prior to the issuance of the certificate if the Subscriber does not have the ability to electronically sign the application.

One application suffices for multiple certificates to be issued simultaneously to the same Subscriber.

4.1.2.1. Submission of Application for Certificates

An application includes the following information:

- Information about the Subscriber (name, registry code, VAT No, phone, e-mail for notifications, country, city, postal code, address, invoice e-mail);
- Information on the legal person's representative or authorised person or person who signed the application (first name, last name, personal identification code, phone, e-mail, authorization document);
- The distinguished name and validity period of the requested Certificate.

The application for e-Seal, Certificate for Authentication or Encryption contains:

- CSR in PKCS#10 [5] format; and
- Information on a QSCD (device type, firmware version, serial number of the device, name of the QSCD provider, valid Common Criteria Certificate issued for the device or guidance on how to verify the validity of a Common Criteria Certificate); or
- Proof that SCD is compliant with the requirements listed in clause 4.1.2 of this CPS; or

- Permission for SK to generate the Private Keys on behalf of the Subscriber.

The Subscriber immediately notifies SK of withdrawal of a Common Criteria Certificate issued for a QSCD.

4.1.2.2. Annual Control of QSCD

SK carries out annual verification of QSCD on which an e-Seal Certificate has been loaded.

SK asks the Subscriber to provide the following:

- Information on the legal person listed in clause 4.1.2.1 of this CPS;
- Updated contacts and information about authorised persons of the Subscriber;
- Information listed in clause 4.1.2.1 of this CPS about the QSCD in use.

The information provided by the Subscriber to SK has to be signed by the Subscriber's legal representative or authorised person who also confirms the correctness and integrity of the information.

SK verifies the following:

- Authority of the Subscriber's representative or authorised person pursuant to clause 3.2.5 of this CPS;
- Validity of Common Criteria Certificate issued for the QSCD;
- Whether the QSCD is the same device that was used when applying for the Certificate.

If the QSCD has changed, SK asks for proof that the Subscriber has performed the transfer of keys in a properly secured way. If the Subscriber is unable to present the necessary information, SK revokes the e-Seal Certificate on QSCD.

Notification of the results of QSCD verification is sent by e-mail to the Subscriber.

4.2. Certificate Application Processing

At least two employees of SK review if each application for e-Seal Certificate, Certificate for Encryption and Authentication is compliant with the clause 4.1 of this CPS before issuance of the certificate.

4.2.1. Performing Identification and Authentication Functions

Refer to clause 3.2.2 of this CPS.

In case the application for the certificate does not contain all the necessary information about the Subscriber, SK obtains the remaining information from the registries listed in clause 3.2.2 of this CPS. SK considers data in the referred registries reliable and accurate and therefore does not confirm obtained information with the Subscriber.

In case the Subscriber's legal representative or a person authorised by the legal representative submits an application for an e-Seal Certificate, SK verifies that the CA that issued the certificate used for Qualified Electronic Signature, has physically identified the legal representative or authorised person before issuing that certificate to him/her.

In case the data on an application for the certificate is missing, contains grammatical errors, contradicts with the Certificate Profile [4] or the data in registries listed in clause 3.2.2 of this CPS then without notifying the Subscriber, SK can change the values in the following fields of Subject information of the certificate:

Subject Distinguished Name:

- Common Name (CN);
- Organization (O);
- Locality (L);
- State (S);
- Serial Number;
- Valid from;
- Valid to.

4.2.2. Approval or Rejection of Certificate Applications

The acceptance or rejection of an application for e-Seal Certificate, Certificate for Encryption and Authentication is decided by SK.

SK issues e-Seal Certificate, Certificate for Encryption and Authentication only to a legal person registered in the registers listed in clause 3.2.2.1 of this CPS.

The decision to accept or reject the certificate request is based on checks listed in clauses 3.2 and 4.1.2 of this CPS. If any of the checks fail, the application is rejected.

Notification of rejection of the application together with a reason is sent by e-mail to the Subscriber. Notification process of the issuance of the certificate is described in clause 4.3.2 of this CPS.

4.2.3. Time to Process Certificate Applications

SK processes the application for e-Seal Certificate, Certificate for Encryption and Authentication within 5 working days after receiving the application that is compliant with the requirements listed in clauses 4.1 and 4.2 of this CPS.

4.3. Certificate Issuance

4.3.1 CA Actions During Certificate Issuance

Each certificate is issued using a manual process.

At least two employees of SK review each issued certificate in order to verify compliance of the certificate to the application and the Certificate Profile [\[4\]](#) prior to notifying the Subscriber of issuance. The certificate is immediately revoked in case of errors.

The head of trust services is automatically notified of the issuance of the certificate for monitoring purposes.

During issuance of e-Seal Certificate on QSCD issued under policy QCP-I-qscd, SK verifies information on QSCD listed in clause 4.1.2.1 of this CPS. In case SK is not certain that the device used by the Subscriber is QSCD, SK does not issue e-Seal Certificate on QSCD issued under policy QCP-I-qscd. The Subscriber is offered e-Seal Certificate on Secure Cryptographic Device issued under policy QCP-I.

4.3.2 Notification to Subscriber by the CA of Issuance of Certificate

SK notifies the Subscriber of the issuance of the certificate by delivering the certificate (or a reference thereto) to the e-mail address of the Subscriber stated in the application for the certificate.

4.4. Certificate Acceptance

4.4.1. Conduct Constituting Certificate Acceptance

Refer to Terms and Conditions [\[3\]](#).

4.4.2. Publication of the Certificate by the CA

E-Seal Certificates, Certificates for Encryption and Authentication are published by SK in LDAP directory at k3.ldap.sk.ee no later than within 1 hour after issuing the certificates. Certificates which are expired, suspended and revoked are not published in LDAP directory.

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

Not applicable.

4.5. Key Pair and Certificate Usage

4.5.1. Subscriber Private Key and Certificate Usage

The Subscriber is required to use the Private Key and the Certificate lawfully and in accordance with this CPS, the CP [2] and the Terms and Conditions [3].

4.5.2. Relying Party Public Key and Certificate Usage

Relying Party is required to use the Subscriber's Public Key and the Certificate lawfully and in accordance with this CPS, the CP [2] and the Terms and Conditions [3].

4.6. Certificate Renewal

Renewal of the Certificate is not performed. The Subscriber has to apply for a new Organisation Certificate.

SK sends an email about the Certificate expiry to the Subscriber's contact address:

- 30 days prior to expiry;
- 10 days prior to expiry;
- After the Certificate has expired.

4.7. Certificate Re-Key

The procedure of the re-key of e-Seal Certificate, Certificate for Encryption and Authentication is the same as for the initial certificate issuance.

4.8. Certificate Modification

SK performs modification of e-Seal Certificate, Certificate for Encryption and Authentication only to fix the errors in the issued certificate within 14 days after initial issuance of the certificate.

Before modification of the certificate, SK revokes the erroneous certificate.

Modification of the certificate can be done based on the initial application for the certificate.

If modification of e-Seal Certificate, Certificate for Encryption and Authentication is requested after 14 days of initial certificate issuance, SK treats it as a new application and requests the Subscriber to submit a new application for the certificate.

4.9. Certificate Revocation and Suspension

4.9.1. Circumstances for Revocation

Refer to clause 4.9.1 of the CP [2].

4.9.2. Who Can Request Revocation

Any person can request revocation.

4.9.3. Procedure for Revocation Request

An electronically signed application for revocation can be submitted to the Customer Service Point's email address. A signed application for revocation of the Certificate can also be submitted to the Customer Service Point. In case of a signed application, the identity of the person is verified based on the copy of the identity document by an employee of the Customer Service Point.

After SK has received a request for revocation of the Certificate, the procedure for processing the request is the following:

- The revocation request is registered by an employee of the Customer Service Point;
- The person filing an application for revocation is verified;

- The legality to request revocation is established;
- The compliance of the application for revocation with the CP [2] is verified in SK's information system;
- The Certificate is removed from LDAP directory and OCSP stops responding with status "GOOD";
- A new CRL is published according to clause 4.9.7 of this CPS;
- The documentation on which the application for revocation was based is archived;
- The Subscriber is notified of revocation of the Certificate.

Detailed workflow is described in Incident Management Process (internal document).

The Certificate is revoked immediately after the request's legality has been verified, but no later than 12 hours after an application for revocation has been submitted. The revocation of the Certificate is recorded in the certificate database of SK and in CRL no later than 24 hours after an application has been submitted.

The Subscriber has a possibility to verify from the LDAP directory, the CRL or via OCSP that the Certificate has been revoked.

Revoked Certificate cannot be reinstated.

4.9.4. Revocation Request Grace Period

The Subscriber is required to request revocation immediately after the loss and compromise of the Private Key.

4.9.5. Time Within Which CA Must Process the Revocation Request

SK is immediately obliged to process an application for revocation but no later than 6 hours after an application for revocation has been submitted.

4.9.6. Revocation Checking Requirements for Relying Parties

The mechanisms available to a Relying Party for checking the status of the Certificate on which it wishes to rely have been established in the Terms and Conditions [3].

4.9.7. CRL Issuance Frequency

The value of the next Update field of CRL is set to 12 hours after issuance of CRL.

CRL is signed by KLASS3-SK 2010.

CRL for KLASS3-SK 2016 is not issued.

4.9.8. Maximum Latency for CRLs

SK monitors of the expiry time of the CRL that is published on SK's website. If a new CRL is not published 120 minutes before expiry of the previous one, an alarm is raised.

4.9.9. On-Line Revocation/Status Checking Availability

OCSP service is free of charge and publicly accessible.

OCSP contains Certificate status information until the Certificate expires.

OCSP service serves as a primary source for the Certificate status information.

Certificate status information for the Certificates issued by KLASS3-SK 2010 is signed by KLASS3-SK 2010 AIA OCSP RESPONDER YYYYMM certificate and for the Certificates issued by KLASS3-SK 2016 by KLASS3-SK 2016 AIA OCSP RESPONDER YYYYMM certificate (naming convention in [4]).

4.9.10. On-Line Revocation Checking Requirements

The mechanisms available to a Relying Party for checking the status of the Certificate on which it wishes to rely have been established in the Terms and Conditions [3].

4.9.11. Other Forms of Revocation Advertisements Available

SK offers an OCSP service with better SLA under agreement and price list.

Revocation status information of the expired Certificate can be requested at the email address info@skidsolutions.eu.

4.9.12. Special Requirements Related to Key Compromise

Not applicable.

4.9.13. Circumstances for Suspension

Suspension is allowed only for e-Seal Certificates, circumstances of suspension are listed in clause 4.9.13 of the CP [2].

4.9.14. Who Can Request Suspension

Any person can request suspension.

4.9.15. Procedure for Suspension Request

An application for suspension of an e-Seal Certificate can be submitted to Customer Service Point's e-mail address. A written application for suspension can also be submitted to the Customer Service Point. An application for suspension does not need to be signed.

After SK has received a request for suspension of the E-Seal Certificate, the procedure for processing the request is the following:

- The suspension request is registered by an employee of the Customer Service Point;
- The person filing an application for suspension is identified by using professional skills of the Customer Service Point employee;
- The legality to request suspension is verified by using professional skills of the Customer Service Point employee;
- The compliance of the application for suspension of the E-Seal Certificate with the CP [2] is verified in SK's information system;
- The E-Seal Certificate is marked as suspended in the certificate database;
- The E-Seal Certificate is deleted from LDAP directory and OCSF stops responding with status "GOOD";
- A new CRL is published according to clause 4.9.7 of this CPS;
- The documentation on which the application for suspension was based is archived;
- The Subscriber is notified of suspension of the Certificate.

Detailed workflow is described in Incident Management Process (internal document).

E-Seal Certificate is suspended immediately after the request's legality has been verified, but no later than 12 hours after an application for suspension has been submitted.

The suspension of the E-Seal Certificate is recorded in the certificate database of SK and CRL no later than 24 hours after an application has been submitted.

The Subscriber has a possibility to verify from the LDAP directory, the CRL or via OCSF that the E-Seal Certificate has been suspended.

4.9.16. Limits on Suspension Period

There are no limits on the suspension period.

4.9.17. Circumstances for Termination of Suspension

Refer to clause 4.9.17 of the CP [2].

By requesting termination of suspension of an e-Seal Certificate, the Subscriber takes responsibility for all actions made with the Private Key throughout the whole suspension period. If the Subscriber cannot prove the possession of the Private Key during the suspension period, revocation of an e-Seal Certificate must be requested instead.

4.9.18. Who Can Request Termination of Suspension

Any person can request termination of suspension.

4.9.19. Procedure for Termination of Suspension

An electronically signed application for termination of suspension of an e-Seal Certificate can be submitted to SK's email address.

A signed application for termination of suspension of an e-Seal Certificate can also be submitted to the Customer Service Point. In case of signed application, the identity of the requester is verified by the physical presence at the Customer Service Point.

The procedure of termination of suspension is the following:

- The termination of suspension request is registered by an employee of the Customer Service Point;
- The identity of the person filing an application for termination of suspension is verified as for the initial issuance of an e-Seal Certificate;
- The authority to request termination of suspension is established as for the initial issuance of an e-Seal Certificate;
- The compliance of the termination of suspension with the CP [2] is verified in SK's information system;
- The fact of termination of suspension is registered in SK's information system;
- After suspension of the e-Seal Certificate is terminated, it is published again in the LDAP directory and OSCP starts responding with status "GOOD";
- A new CRL is published according to clause 4.9.7 of this CPS.

The suspension of e-Seal Certificate is terminated immediately after the request's legality has been verified and the details about the termination of suspension are recorded in SK's information system.

SK notifies the Subscriber immediately of the successful completion of the termination of suspension procedure by sending a notification to the Subscriber's email stated in the application for termination of suspension.

The Subscriber has a possibility to verify from the LDAP directory, the next CRL or via OSCP that the suspension of the e-Seal Certificate has been terminated.

If the Subscriber does not have the ability to submit an application for termination of suspension, the Subscriber has to file an application for revocation.

4.10. Certificate Status Services

4.10.1. Operational Characteristics

SK offers CRL and OSCP services for checking certificate status. Services are accessible over HTTP protocol. The URLs of the services are included in the certificates on the CRL Distribution Point (CDP) and Authority Information Access (AIA) fields respectively in accordance with the Certificate Profile [4]. The URLs of the CDP is included in the certificates issued until 1 July 2016.

4.10.2. Service Availability

SK ensures availability of Certificate Status Services 24 hours a day, 7 days a week with a minimum of 99.44% availability overall per year with a scheduled downtime that does not exceed 0.28% annually.

4.10.3. Operational Features

None.

4.11. End of Subscription

The maximum validity period of the Certificate is described in the Certificate Profile [4].

Subscription ends if the Certificate expires.

The Subscriber may also end a subscription for the Certificate by revoking the Certificate without replacing it.

4.12. Key Escrow and Recovery

SK does not provide the Subscriber with key escrow and recovery services.

5. Facility, management, and operational controls

Refer to clause 5 of SK PS [\[6\]](#).

5.1. Physical Controls

Refer to clause 5 of SK PS [\[6\]](#).

5.2. Procedural Controls

Refer to clause 5.2.1 of SK PS [\[6\]](#).

5.3. Personnel Controls

5.3.1. Qualifications, Experience, and Clearance Requirements

Refer to clause 5.3.1 of SK PS [\[6\]](#).

5.3.2. Background Check Procedures

Refer to clause 5.3.2 of SK PS [\[6\]](#).

5.3.3. Training Requirements

Refer to clause 5.3.3 of SK PS [\[6\]](#).

The employees of SK responsible for issuing the Certificate are required to pass an examination provided by SK on the issuance of the Certificate. The right to issue the Certificate is given on the basis of a decree issued by the CEO.

5.3.4. Retraining Frequency and Requirements

Refer to clause 5.3.4 of SK PS [\[6\]](#).

5.3.5. Job Rotation Frequency and Sequence

Refer to clause 5.3.5 of SK PS [\[6\]](#).

5.3.6. Sanctions for Unauthorized Actions

Refer to clause 5.3.6 of SK PS [\[6\]](#).

5.3.7. Independent Contractor Requirements

Refer to clause 5.3.7 of SK PS [\[6\]](#).

5.3.8. Documentation Supplied to Personnel

Refer to clause 5.3.8 of SK PS [\[6\]](#).

5.4. Audit Logging Procedures

5.4.1. Types of Events Recorded

Refer to clause 5.4.1 of SK PS [\[6\]](#).

If the private key of the Subscriber is generated by SK, an audit trail of events relating to the preparation of QSCD is kept.

5.4.2. Frequency of Processing Log

Refer to clause 5.4.2 of SK PS [\[6\]](#).

5.4.3. Retention Period for Audit Log

Refer to clause 5.4.3 of SK PS [\[6\]](#).

5.4.4. Protection of Audit Log

Refer to clause 5.4.4 of SK PS [\[6\]](#).

5.4.5. Audit Log Backup Procedures

Refer to clause 5.4.5 of SK PS [\[6\]](#).

5.4.6. Audit Collection System (Internal vs. External)

Refer to clause 5.4.6 of SK PS [\[6\]](#).

5.4.7. Notification to Event-Causing Subject

Refer to clause 5.4.7 of SK PS [\[6\]](#).

5.4.8. Vulnerability Assessments

Refer to clause 5.4.8 of SK PS [\[6\]](#).

5.5. Records Archival

5.5.1. Types of Records Archived

SK archives all recorded events as described in clause 5.4.1 of this CPS.

All physical records that are collected about issuance of the Certificate and other procedures are archived in accordance with relevant regulations.

5.5.2. Retention Period for Archive

Refer to clause 5.5.2 of SK PS [\[6\]](#).

5.5.3. Protection of Archive

Refer to clause 5.5.3 of SK PS [\[6\]](#).

5.5.4. Archive Backup Procedures

Refer to clause 5.5.4 of SK PS [\[6\]](#).

5.5.5. Requirements for Time-Stamping of Records

Refer to clause 5.5.5 of SK PS [\[6\]](#).

5.5.6. Archive Collection System (Internal or External)

Refer to clause 5.5.6 of SK PS [\[6\]](#).

5.5.7. Procedures to Obtain and Verify Archive Information

Refer to clause 5.5.7 of SK PS [\[6\]](#).

5.6. Key Changeover

The Public Key of the CA does not change. The Public Key for the OCSP responder is sent inside the OCSP response, through which a change of key is known.

If necessary, details of a key changeover are considered each time. Common name of the CA always contains the number of the year which it was issued (e.g. KLASS3-SK 2010).

5.7. Compromise and Disaster Recovery

Refer to clause 5.7 of SK PS [\[6\]](#).

5.8. CA Termination

Refer to clause 5.8 of SK PS [\[6\]](#).

6. Technical security controls

6.1. Key Pair Generation and Installation

Refer to clause 6.1 of SK PS [\[6\]](#).

6.1.1. Key Pair Generation

Refer to clause 6.1.1 of SK PS [\[6\]](#) and clause 6.1.1. the CP [\[2\]](#).

If the Subscriber keys of an e-Seal Certificate are generated by the Subscriber in a QSCD, the Subscriber has responsibility for ensuring that the device is compliant throughout the validity period of the e-Seal Certificate and that the Private Key cannot be copied or extracted unencrypted from the device.

In case keys of e-Seal Certificates are generated by SK in a Secure Cryptographic Device or QSCD, SK warrants that no copies are made of the keys and keys are generated in the device. Key pair generation by SK is not performed without a Secure Cryptographic Device or QSCD.

6.1.2. Private Key Delivery to Subscriber

If the keys are generated by SK, the Private Keys are handed over to the Subscriber's legal representative or authorised person at the Customer Service Point or using a courier.

Prior a QSCD on which an e-Seal Certificate has been loaded is handed over to the Subscriber's legal representative or authorised person, the identity of the named persons is verified by the physical presence at the Customer Service Point. The Subscriber's legal representative or authorised person presents his/her identity document to an employee of the Customer Service Point who verifies the identity.

SK warrants the confidentiality and non-usage of the generated Private Keys and activation codes until the issuance of an e-Seal Certificate.

6.1.3. Public Key Delivery to Certificate Issuer

If the keys are generated by the Subscriber, the Public Key is delivered to SK over the public data network in the form of PKCS#10 [\[5\]](#) Certificate Signing Request.

6.1.4. CA Public Key Delivery to Relying Parties

Refer to clause 6.1.4 of SK PS [\[6\]](#).

6.1.5. Key Sizes

Refer to the Certificate Profile [\[4\]](#).

6.1.6. Public Key Parameters Generation and Quality Checking

Refer to clause 6.1.1 of this CPS.

In case the Public Key is provided by the Subscriber, it is checked against the list of Debian Weak Keys (CVE-2008-0166).

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

Key usage purposes are described in the Certificate Profile [\[4\]](#).

6.2. Private Key Protection and Cryptographic Module Engineering Controls

6.2.1. Cryptographic Module Standards and Controls

Refer to clause 6.2.1 of SK PS [\[6\]](#).

In case of e-Seal Certificate on QSCD issued under policy QCP-l-qscd, the chip or the device that carries the Subscriber's Private Keys must be QSCD.

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

Refer to clause 6.2.2 of SK PS [\[6\]](#).

Multi-person control is not required for Subscriber keys.

6.2.3. Private Key Escrow

Refer to clause 6.2.3 of SK PS [\[6\]](#).

SK does not provide the Subscriber with key escrow and recovery services.

6.2.4. Private Key Backup

Refer to clause 6.2.4 of SK PS [\[6\]](#).

The Subscriber is responsible for backing up its Private Key.

If the Private Key is stored on a QSCD, the methods used for backup must not weaken the security of the Private Key.

6.2.5. Private Key Archival

Refer to clause 6.2.5 of SK PS [\[6\]](#).

The Subscriber is responsible for archiving its Private Key.

If the Private Key is stored on a QSCD, the methods used for archival must not weaken the security of the Private Key.

6.2.6. Private Key Transfer Into or From a Cryptographic Module

Refer to clause 6.2.6 of SK PS [\[6\]](#).

In case of e-Seal Certificate it is not allowed to store the Subscriber's keys outside of the QSCD or Secure Cryptographic Device except for backup, archiving or copying to another device in a way that does not weaken the security of the Private Keys and does not break the compliance required by CP [\[2\]](#).

6.2.7. Private Key Storage on Cryptographic Module

Refer to clause 6.2.7 of SK PS [\[6\]](#).

6.2.8. Method of Activating Private Key

Refer to clause 6.2.8 of SK PS [\[6\]](#).

It is responsibility of the Subscriber to take adequate means for protecting its Private Key.

6.2.9. Method of Deactivating Private Key

Refer to clause 6.2.9 of SK PS [\[6\]](#).

It is responsibility of the Subscriber to take adequate means for protecting its Private Key.

6.2.10. Method of Destroying Private Key

Refer to clause 6.2.9 of SK PS [\[6\]](#).

It is responsibility of the Subscriber to take adequate means for protecting its Private Key.

6.2.11. Cryptographic Module Rating

Refer to clause 6.2.1 of this CPS and clause 6.2.11 of SK PS [\[6\]](#).

6.3. Other Aspects of Key Pair Management

6.3.1. Public Key Archival

Refer to clause 6.3.1 of SK PS [6].

6.3.2. Certificate Operational Periods and Key Pair Usage Periods

Refer to clause 6.3.2 of SK PS [6].

For the Certificate, the validity period is defined in clause 4.11 of this CPS.

6.4. Activation Data

6.4.1. Activation Data Generation and Installation

Refer to clause 6.4.1 of SK PS [6].

If the Private Key of the Subscriber is generated by SK, this procedure also involves generating the necessary activation codes.

Activation codes generated by SK meet the following criteria:

- Contain numbers only;
- The length of the activation codes is at least 5 symbols;
- The length of the Admin password is at least 6 symbols;
- Do not contain more than 3 consecutive symbols (e.g. activation codes can contain “123”, but not “1234”);
- Do not contain more than 2 repetitive symbols (e.g. activation codes can contain “44”, but not “444”).

Otherwise it is the responsibility of the Subscriber to generate its activation codes.

6.4.2. Activation Data Protection

Refer to clause 6.4.2 of SK PS [6].

If the activation codes are generated by SK, they are delivered or handed over to the Subscriber in a secure envelope separately from QSCD.

6.4.3. Other Aspects of Activation Data

Not applicable.

6.5. Computer Security Controls

Refer to clause 6.5.1 of SK PS [6].

6.6. Life Cycle Technical Controls

Refer to clause 6.6.1 of SK PS [6].

6.7. Network Security Controls

Refer to clause 6.7 of SK PS [6].

6.8. Time-Stamping

Refer to clause 6.8 of SK PS [6].

7. Certificate, crt, and ocsf profiles

7.1. Certificate Profile

The Certificate profile is described in the Certificate Profile [4], published in SK's public information repository <https://www.skidsolutions.eu/en/repository/profiles/>.

7.2. CRL Profile

The CRL profile is described in the Certificate Profile [4], published in SK's public information repository <https://www.skidsolutions.eu/en/repository/profiles/>.

7.3. OCSP Profile

The OCSP profile is described in the Certificate Profile [4], published in SK's public information repository <https://www.skidsolutions.eu/en/repository/profiles/>.

8. Compliance audit and other assessments

Refer to chapter 8 of SK PS [\[6\]](#).

9. Other business and legal matters

9.1. Fees

9.1.1. Certificate Issuance or Renewal Fees

The fees for the issuance of e-Seal Certificate, Certificate for Encryption and Authentication are described in the corresponding price list, published on SK's website .

Certificate renewal is not performed.

9.1.2. Certificate Access Fees

Valid and activated certificates are available in LDAP directory. LDAP directory is free of charge and is accessible on k3.ldap.sk.ee.

9.1.3. Revocation or Status Information Access Fees

Revocation of the Certificate is free of charge.

A valid CRL is free of charge and is accessible on SK's website.

An OCSP service for online verification is free of charge and publicly accessible.

In case of other manners of publication information on status of the Certificate, SK may set a fee in the price list or require a corresponding agreement.

9.1.4. Fees for Other Services

Fees for other services are specified in SK's price list or in the Subscriber's or Relying Party's agreement.

9.1.5. Refund Policy

Refer to clause 9.1.5 of SK PS [\[6\]](#).

The Subscriber may request refund in the form of modification of the certificate within 14 days after initial issuance of the certificate.

9.2. Financial Responsibility

9.2.1. Insurance Coverage

Refer to clause 9.2.1 of SK PS [\[6\]](#).

9.2.2. Other Assets

Not applicable.

9.2.3. Insurance or Warranty Coverage for End-Entities

Refer to clause 9.2.1 of SK PS [\[6\]](#).

9.3. Confidentiality of Business Information

Refer to clause 9.3 of SK PS [\[6\]](#).

9.4. Privacy of Personal Information

Refer to clause 9.4.3 of SK PS [\[6\]](#).

9.5. Intellectual Property Rights

SK obtains intellectual property rights to this CPS.

9.6. Representations and Warranties

9.6.1. CA Representations and Warranties

Refer to clause 9.6.1 of SK PS [\[6\]](#).

SK ensures that:

- the supply of the certification service is in accordance with the relevant legislation;
- the supply of the certification service is in accordance with this CPS and the CP [\[2\]](#);
- it accepts and processes requests for e-Seal Certificate, Certificate for Encryption and Authentication from the Subscriber over a secured communications channel;
- it accepts applications for suspension of certificates 24 hours a day;
- the certification keys are protected by HSM and are under sole control of SK;
- the certification keys used in the supply of the certification service are activated on the basis of shared control.

As applying for the Certificates presupposes right of representation of the Subscriber's legal representative, SK assumes that legal representative has legal capacity. Otherwise the legal representative is not authorised to represent the Subscriber in applying for the Certificates.

If legal representative has some sort of disability, Customer Service Point assists with applying for the Certificates.

9.6.2. RA Representations and Warranties

9.6.2.1. Customer Service Point

Refer to clause 9.6.2 of SK PS [\[6\]](#).

The Customer Service Point hereby undertakes to:

- accept applications for issuance and termination of suspension of e-Seal Certificate, Certificate for Encryption and Authentication;
- accept applications for the Certificate suspension and revocation 24 hours a day, 7 days a week;
- verify the authenticity and integrity of the abovementioned requests;
- verify identity and authority of legal person and its representative.

9.6.3. Subscriber Representations and Warranties

The Subscriber observes the requirements provided by SK in this CPS.

Refer to clause 9.6.3 of SK PS [\[6\]](#).

The Subscriber has to accept the Terms and Conditions [\[3\]](#).

9.6.4. Relying Party Representations and Warranties

Refer to clause 9.6.4 of SK PS [\[6\]](#).

A Relying Party studies the risks and liabilities related to acceptance of the Certificate. The risks and liabilities have been set out in this CPS and the CP [\[2\]](#).

A Relying Party uses CRL service on its own responsibility.

9.6.5. Representations and Warranties of Other Participants

Not applicable.

9.7. Disclaimers of Warranties

Refer to clause 9.7 of SK PS [\[6\]](#).

9.8. Limitations of Liability

Refer to clause 9.8 of SK PS [6].

9.9. Indemnities

Indemnities between the Subscriber and SK are regulated in Terms and Conditions [3].

9.10. Term and Termination

9.10.1. Term

Refer to clause 2.2.1 of this CPS.

9.10.2. Termination

Refer to clause 9.10.2 of SK PS [6].

9.10.3. Effect of Termination and Survival

SK communicates the conditions and effect of the termination of this CPS via its public repository. The communication specifies which provisions survive termination.

At a minimum, all responsibilities related to protecting personal and confidential information, also maintenance of SK archives for determined period and logs survive termination. All Subscriber agreements remain effective until the Certificate is revoked or expired, even if this CPS terminates.

Termination of this CPS cannot occur before termination actions described in clause 5.8 of this CPS.

9.11. Individual Notices and Communications with Participants

The Subscriber's individual notices are communicated via the contact details (telephone number and/or email address) provided by the Subscriber during submitting an application for the Certificate.

9.12. Amendments

9.12.1. Procedure for Amendment

Refer to clause 1.5.4 of this CPS.

9.12.2. Notification Mechanism and Period

Refer to clause 2.2.1 of this CPS.

9.12.3. Circumstances Under Which OID Must be Changed

Not applicable.

9.13. Dispute Resolution Provisions

Refer to clause 9.13 of SK PS [6].

The Subscriber or other party can submit their claim or complaint at the email address info@skidsolutions.eu.

9.14. Governing Law

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

9.15. Compliance with Applicable Law

Refer to clause 9.15 of SK PS [6].

9.16. Miscellaneous Provisions

9.16.1. Entire Agreement

SK requires each party using its products and services to enter into an agreement that delineates the terms associated with the product or service. If an agreement contains provisions that differ from this CPS, then the agreement with that party controls but solely with respect to that party. Third parties may not rely on or bring action to enforce any such agreement.

9.16.2. Assignment

Any entities operating under this CPS may not assign their rights or obligations without the prior written consent of SK. Unless specified otherwise in a contract with a party, SK does not provide notice of assignment.

9.16.3. Severability

If any provision of this CPS is held invalid or unenforceable by a competent court or tribunal, the remainder of the CPS remains valid and enforceable. Each provision of this CPS that provides for a limitation of liability, disclaimer of a warranty, or an exclusion of damages is severable and independent of any other provision.

9.16.4. Enforcement (Attorneys' Fees and Waiver of Rights)

SK may claim indemnification and attorneys' fees from a party for damages, losses, and expenses related to that party's conduct. SK's failure to enforce a provision of this CPS does not waive SK's right to enforce the same provision later or right to enforce any other provision of this CPS. To be effective, waivers must be in writing and signed by SK.

9.16.5. Force Majeure

Refer to clause 9.16.5 of SK PS [\[6\]](#).

9.17. Other Provisions

Not applicable.

10. References

- [1] RFC 3647 – Request For Comments 3647, Internet X.509 Public Key Infrastructure Certificate Policy and Certification Practices Framework;
- [2] SK ID Solutions AS - Certification Policy for Organisation Certificates, published: <https://www.skidsolutions.eu/en/repository/CP/>;
- [3] Terms and Conditions of Use of Organisation Certificates, published: <https://www.skidsolutions.eu/en/repository/conditions-for-use-of-certificates/>;
- [4] Certificate, CRL and OCSP Profile for Organisation Certificates Issued by SK, published: <https://www.skidsolutions.eu/en/repository/profiles/>;
- [5] PKCS#10 – Certification Request Syntax Standard, published: <http://www.emc.com/emc-plus/rsa-labs/standards-initiatives/pkcs10-certification-request-syntax-standard.htm>;
- [6] SK ID Solutions AS Trust Services Practice Statement, published: <https://www.skidsolutions.eu/en/repository/sk-ps/>
- [7] 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 issuing qualified certificates;
- [8] ETSI EN 319 411-1 Electronic Signatures and Infrastructures (ESI); Policy and Security requirements for Trust Service Providers issuing certificates; Part 1: General requirements;
- [9] eIDAS - 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;
- [10] EN 419 211 Protection profiles for secure signature creation device – Part 1: Overview; Part 3: Device with key generation.