

# CERTIFICATION PRACTICE STATEMENT FOR TEMPORARY CERTIFICATE

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ISO 9001



ISO/IEC 27001





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## Contents

1 Introduction.....	12
1.1 General points.....	12
1.2 Identifiers.....	13
1.3 Certification authority and applications of certificates .....	14
1.3.1 Certification authority .....	14
1.3.2 Registration authority .....	15
1.3.3 Manufacturer and identifier of the replacement card or microchip .....	15
1.3.4 Revocation service.....	15
1.3.5 Publication of data on temporary certificates .....	16
1.3.6 Certificate holder.....	16
1.3.7 The trusting party .....	16
1.3.8 Certificate usage .....	16
1.4 Contact details.....	16



VRK/TS/Keh

3.5.2018

1.4.1 Organisation responsible for administering the certification practice statement.....	16
1.4.2 Contact person.....	17
2 General terms and conditions.....	18
2.1 Obligations.....	18
2.1.1 Certification authority's obligations.....	18
2.1.2 The registration authority's obligations.....	19
2.1.3 Certificate holder's obligations.....	19
2.1.4 Obligations of the party trusting a certificate.....	20
2.1.5 Obligations pertaining to the publishing of a certificate.....	20
2.2 Liabilities.....	21
2.2.1 Certification authority's liabilities.....	21
2.2.2 Registration authority's liabilities.....	21
2.2.3 Certificate holder's liabilities.....	22
2.2.4 Liabilities of a party trusting a certificate.....	22
2.2.5 Limitations of liability.....	22
2.3 Financial liability.....	23
2.3.1 Certification authority.....	23
2.3.2 Other parties.....	23
2.3.3 Certification authority's financial administration.....	23
2.4 Interpretation and implementation.....	24
2.4.1 Applicable legislation.....	24
2.4.2 Settling of disputes.....	25
2.5 Fees.....	25
2.5.1 Granting and renewing a temporary certificate.....	25
2.5.2 Fees related to the use of a temporary certificate.....	25
2.5.3 Fees related to the revocation list entry of a temporary certificate.....	25
2.5.4 Other fees.....	25
2.6 Publishing and availability of data.....	26
2.6.1 Publishing of the certification authority's data.....	26
2.6.2 Publication frequency.....	26
2.6.3 Availability of data.....	26
2.6.4 Repositories.....	26
2.7 Information security audit.....	26



VRK/TS/Keh

3.5.2018

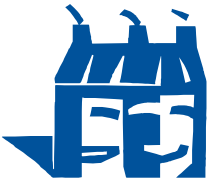
2.7.1 Audit frequency .....	26
2.7.2 Auditor .....	27
2.7.3 Audit objects and scope .....	27
2.7.4 Measures resulting from deviations .....	28
2.7.5 Communicating the result of an audit .....	28
2.8 Publication of data .....	29
2.8.1 Data published by the certification authority .....	29
2.8.2 Public data .....	29
2.8.3 Data pertaining to the expiry or revocation of a temporary certificate .....	29
2.8.4 Data disclosed to authorities .....	29
2.8.5 Other data .....	29
2.8.6 Disclosure of data on the request of the certificate holder .....	29
2.8.7 Other principles concerning disclosure of information .....	29
2.9 Intellectual property rights .....	30
3 Identification of certificate applicant .....	30
3.1 Registration .....	30
3.1.1 Naming policies .....	31
3.1.2 Delivery of private keys to the certificate holder .....	32
3.2 Renewal of key pair .....	32
3.3 Renewing a key pair after inclusion on revocation list .....	32
3.4 Identification of the requester of revocation .....	32
4 Operational requirements .....	34
4.1 Applying for a certificate .....	34
4.2 Granting of a certificate .....	34
4.3 Receiving a certificate .....	34
4.4 Termination and interruption of the validity of a certificate .....	35
4.4.1 Prerequisites for revoking a certificate .....	35
4.4.2 Requester of revocation .....	35
4.4.3 Revocation transaction .....	35
4.4.4 Timing of a revocation event .....	36
4.4.5 Requirements for terminating the validity of a certificate .....	36
4.4.6 Creator of revocation request .....	36
4.4.7 Making a revocation request .....	36



VRK/TS/Keh

3.5.2018

4.4.8	Limitations of the revocation period .....	36
4.4.9	Publishing frequency of the revocation list .....	36
4.4.10	Revocation list requirements.....	36
4.4.11	Online certificate status check.....	37
4.4.12	Requirements related to online certificate status check .....	37
4.4.13	Special requirements pertaining to the exposure of the certificate holder's private key .....	37
4.5	System supervision .....	37
4.6	Archiving of data pertaining to certificates .....	37
4.6.1	Material stored.....	37
4.6.2	Protection of archives .....	38
4.6.3	Backup methods for archived data.....	38
4.6.4	Acquisition and backup methods for archived data.....	38
4.7	Management of the continuity of operations and handling of deviations.....	38
4.7.1	The certification authority's private key has become disclosed or the certification authority's certificate has been revoked .....	38
4.7.2	Compromised security because of a natural disaster or other catastrophe.....	39
4.8	End of the certification authority's operations .....	39
5	Physical, operational and staff security requirements.....	41
5.1	Arrangements related to physical security .....	41
5.1.1	Location and building properties .....	41
5.1.2	Physical access to facility.....	41
5.1.3	Electricity supply and air conditioning .....	41
5.1.4	Fire safety.....	41
5.1.5	Data storage.....	41
5.1.6	Handling of redundant data.....	42
5.1.7	Water damage.....	42
5.1.8	Auxiliary arrangements .....	42
5.2	Operational requirements.....	42
5.2.1	Division of responsibility.....	42
5.2.2	Number of staff required for the duties .....	42
5.2.3	Task-specific identification.....	43
5.3	Personal security.....	43
5.3.1	Carrying out a background check on the staff.....	43
5.3.2	Procedure adhered to in the security clearance .....	43



VRK/TS/Keh

3.5.2018

5.3.3 Requirements on training .....	44
5.3.4 Maintenance of expertise and skills .....	44
5.3.5 Requirements for task rotation.....	44
5.3.6 Measures resulting from deviations.....	44
5.3.7 Staff representing the organisation .....	44
5.3.8 Documents given to the staff .....	44
6 Technical security arrangements .....	45
6.1 Generation and storage of key pairs.....	45
6.1.1 Generating key pairs.....	45
6.1.2 Delivery of a private key to certificate holder .....	45
6.1.3 Delivery of the certificate holder's public key to the certification authority .....	45
6.1.4 Distribution of the certification authority's public key to the certificate holder .....	46
6.1.5 Key lengths .....	46
6.1.6 Intended use of keys .....	46
6.2 Protection of private key .....	46
6.2.1 Standards for the hardware security module.....	46
6.2.2 Staff participating in the handling of the certification authority's private key .....	46
6.2.3 Disclosure of private key to a trusted party .....	47
6.2.4 Backup of a private key .....	47
6.2.5 Archiving of private keys .....	47
6.2.6 Administration of private keys in hardware security modules .....	47
6.3 Other key management issues.....	47
6.3.1 Public key archiving .....	47
6.3.2 Usage period of public and private keys .....	47
6.4 Activation data .....	48
6.4.1 Creation and commissioning of activation data.....	48
6.4.2 Protection of activation data.....	48
6.4.3 Other activation data issues .....	48
6.5 Security requirements pertaining to the use of and access to computers.....	48
6.5.1 Hardware security .....	48
6.6 Certificate system life cycle management .....	48
6.6.1 Supervision related to developing the system.....	49
6.6.2 Security management.....	49



VRK/TS/Keh

3.5.2018

6.7 Telecommunication network security .....	49
6.8 Monitoring of the use of the hardware security module.....	49
7 Certificate and revocation list profiles.....	50
7.1 Technical certificate data .....	50
7.2 Revocation list profile.....	50
8 Specification document management.....	50
8.1 Changing of specifications .....	50
8.2 Publishing and communication.....	50
8.3 Certificate policy change and approval procedure.....	50



VRK/TS/Keh

3.5.2018

## DEFINITIONS AND ABBREVIATIONS

### Definitions

**Activation data:** Confidential data (PIN code) that is needed to activate private keys stored in a microchip and to use them in public key methods.

**Key pair:** A pair of interconnected keys, one public and one private, which are used in public key methods. The keys' purpose of use is defined in the certificate (see certificate holder's authentication and encryption certificate).

**Asymmetric encryption:** A pair of one public key and one private key is used in asymmetric encryption. A message that has been encrypted using a public key can only be opened by the private key of the key pair in question.

**Public key:** The public component of a key pair used in asymmetric encryption in public key methods. The certification authority certifies with its digital signature that the public key belongs to the certificate holder. The public key is part of the data content of the certificate.

**Public key infrastructure:** A data security infrastructure in which security services are provided by public key methods.

**Public key method:** A data security service, such as electronic identification, which is provided by using public and private keys, certificates and asymmetric encryption.

**Card reader software:** Card reader software is used in workstations as a so-called end-user application. It enables users to use their cards and certificates stored on it in various user and application environments, such as public e-services, secure email and logging on to workstations.

**Trusting party:** A party that trusts the certificate data and uses the certificate for various data security services such as electronic identification of the certificate holder.

**Microchip:** A technical platform that is used to store the certificate and private keys, integrated into a smart card, identity card, payment card or mobile terminal card.

**OCSP:** Online Certificate Status Protocol, an online service that checks the status of a certificate.

**Organisation certificate:** A qualified certificate issued by the Population Register Centre to a natural person; the data content of the certificate is determined by the Act on Strong Electronic Identification and Trust Services.

**PIN code:** Activation data that activates a private key held on a microchip. PIN 1: the basic code for authentication and encryption.

**PUK code:** A code that is needed to unblock a locked PIN code.





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3.5.2018

**Registration authority:** The registration authority identifies the certificate applicant in accordance with the certificate policy and certification practice statement on behalf of and at the responsibility of the certification authority.

**RSA algorithm and RSA key:** The RSA algorithm is a common public key algorithm. The private and public keys associated with an organisation certificate are RSA keys.

**Revocation list:** A list of certificates revoked before the end of their validity period and the revocation dates, electronically signed and published by the certification authority. The revocation list specifies the publication dates of the current and next revocation list. Revoked certificates are added to the list.

**Revocation service:** A technical service provider that receives certificate revocation requests and submits them to the certificate system on behalf of the certification authority.

**Regulated healthcare professional:** A person who, on the basis of the Act on Health Care Professionals, has been given the right to practise a profession (licensed professional) or the authorisation to practise a profession (authorised professional) and a person who, on the basis of the Act, is entitled to use the occupational title of a health care professional as laid down by Government decree (professional with a protected occupational title) and who is registered in the central register of health care professionals.

**ID card for regulated social and health care professional: an ID card issued by PRC to a regulated social and health care professional which contains a professional certificate.**

Non-regulated healthcare workers: healthcare service providers, as referred to in the Act on Health Care Professionals (559/1994), who are not regulated healthcare professionals. This group includes e.g. workers in the support services, office and IT services of a healthcare unit. A person who works for a healthcare service provider organisation and is not a regulated healthcare professional.

**ID card for non-regulated social and health care worker:** an ID card issued by PRC to a non-regulated healthcare worker which contains a certificate.

**Healthcare student:** Subject to the conditions laid down by Government decree, the tasks of a licensed professional may, on a temporary basis, be carried out by a person studying for the profession in question under direction and supervision of a professional who has been licensed to practise the profession independently. The provisions concerning healthcare professionals laid down in the Act apply to students as appropriate. Medical, dentistry and pharmacy students are issued with an ID card for regulated healthcare professional. Students of other healthcare professions who meet the conditions for practising the profession in question on the basis of Government decree are issued with an ID card for non-regulated healthcare worker which is specific to the organisation in question.

**Non-clinical healthcare sector staff:** employees of healthcare service providers who are not regulated healthcare professionals or non-regulated healthcare workers. This group includes



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3.5.2018

other individuals and specialist groups who have access to the national information systems, such as data protection officers, IT system suppliers, consultants, etc.

**ID card for non-clinical healthcare sector staff:** An ID card issued by PRC to non-clinical healthcare sector staff which contains a certificate.

**Temporary certificate:** A certificate issued by PRC to a natural person which can be used for authentication and encryption or authentication, encryption and electronic signing.

**Replacement card:** A replacement for an organisation-specific ID card which contains the certificates needed by the card holder in its technical component (microchip). In special circumstances, a replacement card can be issued to a person who does not hold an ID card of the organisation in question.

**Certificate:** A electronic certificate which enables a person's authentication and data encryption, links the signature verification data to the signatory and identifies the signatory. A certificate contains an OID (object identifier) that identifies the certification practice statement in question.

**Certificate system:** A technical data system used to create certificates and sign revocation lists.

**PKI disclosure statement:** A document that contains the main points of the certificate policy and certification practice statement.

**Certificate policy:** A document that describes the principles of certification and the responsibilities of the trusting parties. The certificate policies published by PRC are publicly available. Each certificate policy is identified by an OID.

**Certificate register:** A register maintained by a certification authority that issues certificates to the public. Data are held for at least 5 years after the expiry of the certificate.

**Certificate management system:** A data system consisting of certificate systems, data communications, a certificate directory, revocation list service, advice and revocation service, certificate management and card management.

**CPS OID** is part of the data content of the certificate.

**Certification practice statement:** A description of how the certification authority implements its certificate policy. Each certification practice statement is identified by an OID.

**Certification authority:** An organisation that issues certificates, is responsible for their provision and draws up the certificate policy that describes its operation and the associated certification practice statement.

**CA certificate:** Contains the name, country and public key of the certification authority.

**CA's private key:** The private key used by the certification authority to sign its issued certificates and published revocation lists.



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3.5.2018

**Certificate applicant:** A person who requests a temporary certificate and is reliably identified in conjunction with the request.

**Certificate holder:** A person whose identity and public key are verified by the CA's digital signature and who holds the private keys linked with the certificate in question.

**Certificate holder's authentication and encryption certificate:** A certificate used for electronic personal identification and data encryption. The certificate holder uses the private authentication and encryption key for electronic identification and decryption of encrypted data or messages. The use of the key requires a basic PIN code (PIN 1).

**Certificate usage and purpose:** In this document, certificate usage refers to the use of the certificate and the associated keys

**Private key:** The private component of a key pair used in asymmetric encryption in public key methods. The private keys of the certificate holder are stored on a microchip to protect them from unauthorised usage.

## List of abbreviations

CA	Certification Authority
CP	Certificate Policy
CPS	Certification Practice Statement
CRL	Certificate Revocation List
FINEID	Finnish Electronic Identification
HSM	Hardware Security Module
EPI	Electronic Personal Identification
HTTP	Hypertext Transport Protocol
ISO 27001	ISO/IEC 27001
LDAP	Lightweight Directory Access Protocol
OCSP	Online Certificate Status Protocol
OID	Object Identifier
PDS	PKI Disclosure Statement
PIN	Personal Identification Number, PIN



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3.5.2018

<b>PKI</b>	Public Key Infrastructure
<b>PUK</b>	PIN Unblocking Key, PUK code
<b>RSA</b>	Rivest, Shamir, Adleman, a public key algorithm, asymmetric algorithm
<b>PRC</b>	Population Register Centre

## 1 Introduction

The certification practice statement (CPS) is a document drawn up by the certification authority (CA) which describes the practices and principles used in certification. The CPS is a more detailed description of the CA's activities than the certificate policy (CP).

This certification practice statement applies to temporary certificates issued by the Population Register Centre.

A temporary certificate is a certificate that supports the use of PRC-issued organisation certificates, OID: 1.2.246.517.1.10.203.

### 1.1 General points

A certificate is an electronic certificate that links the signature authentication data to the signatory and identifies the signatory. The certificate data are signed electronically by the CA's private key. Certificates under this certificate practice statement are based on a public key infrastructure and public key methods. The data contents of certificates under this CPS are determined by the Act on Strong Electronic Identification and Trust Services.

A temporary certificate is an authentication and encryption certificate or a combined authentication and encryption certificate and signature certificate. The accuracy of identification is guaranteed by the PRC.

A temporary certificate under this certificate policy can be issued to organisation customers. If the organisation customer registers temporary certificates for non-regulated healthcare workers or non-clinical healthcare sector staff, all parties referred to in this certificate policy shall comply with the certificate policy and the requirements of the act on the electronic processing of client data in social and health care (159/2007) and the act on electronic prescriptions (61/2007) and associated regulations.

The Population Register Centre, which acts as the certification authority, uses an identifier to identify the certificate holder. This identifier is also a part of the data content of the certificate. The identifier is a technical data item created separately for e-service access, and it does not contain any personal information.

A temporary certificate can be stored on various ID cards.



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3.5.2018

Both the certificate policy and the certification practice statement of PRC have a unique object identifier (OID).

The certification authority's activities include the provision of certification, directory and revocation services, registration, and ID card creation and identification. These activities are described in Chapter 1.3.

PRC draws up a separate certificate policy for each type of certificate issued by it, and a separate certification practice statement for each technical platform. The certificate policy contains a general description of the practices, terms and conditions, responsibility allocation and other matters related to certificate usage for each type of certificate. The certification practice statement contains a detailed description of the applicable practices.

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 shall apply with regard to signature certificates in trust services as of 1 July 2016. The procedural requirements concerning the activities and administrative practices of Certification Authorities that issue identification and signature certificates under the Regulation are described in this document. The use of a secure signature creation device is described in the procedural requirements specified in this document.

The certification authority is a certification service provider issuing certificates to the public.

According to the Act on Strong Electronic Identification and Trust Services (617/2009), the PRC acts as an identification service provider when it offers certificate-based identification devices to the public. In Finland, identification service providers are supervised by the Finnish Communications Regulatory Authority.

In addition, PRC has acted as a statutory certification authority for health care since 1 December 2010 and as a statutory certification authority for social care since 1 April 2015 following the amendment of the act on the electronic processing of client data in social and health care (159/2007), the act on electronic prescriptions (61/2007) and the act on the population information system and the Population Register Centre's certificate services (661/2009). PRC's Certificate Service unit is responsible for the agency's certification activities.

## 1.2 Identifiers

The certification authority draws up a certificate policy for each issued certificate type and a certification practice statement for each technical platform the certificate can be used on.

The title of this certification practice statement is the Certification Practice Statement for PRC's Temporary Certificate, OID 1.2.246.517.1.10.204.1.

This certification practice statement refers to the Certification Policy for Temporary Certificate, OID 1.2.246.517.1.10.204.



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3.5.2018

Population Register Centre adheres to a certificate policy concerning signature certificates issued to the public as per trust services under Regulation No. (EU) 910/2014. The document reference as per ETSI EN 319 411-1 [2], clause 4.3.5. 3) QSCD is: OID: 0.4.0.194112.1.2. Signature certificates issued in accordance with this certificate policy can be used to authenticate digital signatures that correspond to approved certificates and creation devices for digital signatures as referred to in the Regulation and provided for in Articles 28 and 29 of the Regulation.

The level of the identification certificate meets the requirements of High level of assurance in accordance with the Regulation and the regulation on levels of assurance.

The certificate policy and the certification practice statement are available at [www.fineid.fi](http://www.fineid.fi).

### 1.3 Certification authority and applications of certificates

The certification authority provides certificate services according to the terms and conditions specified in this certification practice statement and guarantees their functioning to the certificate holder in accordance with Chapter 2.2.1 on the responsibilities of the certification authority. The certification authority is responsible for the functioning of the certificate system as a whole, including on behalf of any registration authorities and technical suppliers it may use. This certification practice statement has been registered by the Population Register Centre. The Population Register Centre is a government authority that maintains a personal data register and is responsible, under the Act on the Population Information System and the Certificate Services of the Population Registration Centre \*661/2009), the act on the electronic processing of client data in social and health care (159/2007) and the act on electronic prescriptions (61/2007), for providing certified electronic services in addition to its other tasks. The PRC Certificate Service is comprised of the following functions:

#### 1.3.1 Certification authority

The certification authority's task is to:

- provide certificate and directory services in accordance with its certificate policy and certification practice statement, and certification revocation services
- identify certificate applicants
- ensure the accuracy of the data content of certificates
- revoke certificates and publish certificate revocation lists
- adhere to high data security standards and good data processing practices when processing the personal information of certificate holders
- create client IDs for the purpose of personal identification
- provide a card order and management system for registration and revocation purposes.



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3.5.2018

### 1.3.2 Registration authority

Temporary certificates are registered in accordance with the Act on Strong Electronic Identification and Trust Services and the practices described in this certification practice statement document. Temporary certificates located on replacement cards are registered by PRC's partner with whom PRC has concluded a registration agreement.

- The registration authority acts on behalf of and at the responsibility of the certification authority.
- The registration authority shall comply with the certification authority's certificate policy and certification practice statement.
- The registration authority identifies certificate applicants in accordance with the certification practice statement.
- Certificates are created based on personal identification details related to the certificate application, which are provided by the registration point.
- The registration authority adheres to the principles of good personal data processing.
- PRC oversees that the client organisation adheres to the terms and conditions of the registration agreement and the relevant provisions of the Act on Strong Electronic Identification and Trust Services.
- The registration authority uses the order and management system provided by the certification authority to carry out registrations and to order and revoke replacement cards.

### 1.3.3 Manufacturer and identifier of the replacement card or microchip

- With regard to certificates, the associated key pairs and activation data, the manufacturer and identifier act on behalf of the certification authority, at its responsibility and in accordance with the agreement.
- The manufacturer and identifier shall comply with the certification authority's certificate policy and certification practice statement.
- Replacement cards and microchips are uniquely identified in accordance with data provided by the registration authority.

### 1.3.4 Revocation service

The certificate revocation service which is in place for other cards does not apply to replacement cards; instead, they are revoked by the registration authority of the certificate holder organisation in the card order and management system. A certificate is revoked when the certificate holder wishes to revoke it before its stipulated expiry date. Revoked certificates are added to the revocation list.



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3.5.2018

### 1.3.5 Publication of data on temporary certificates

The directory service is a public Internet-based service which can be used to retrieve the certification authority's certificates and revocation list. Temporary certificates are not published in the directory. The directory service is available at <ldap://ldap.fineid.fi>.

### 1.3.6 Certificate holder

Temporary certificates under this certification practice statement can be issued to persons identified in accordance with the Act on Strong Electronic Identification and Trust Services or, in the case of non-regulated social and healthcare workers or non-clinical social and healthcare staff, they can additionally be assigned in accordance with the act on the electronic processing of client data in social and health care (159/2007) and the act on electronic prescriptions (61/2007) and associated regulations and requirements. Holders of a temporary certificate for non-regulated social and healthcare workers and non-clinical social and healthcare staff can be issued to these two groups.

The certificate holder must comply with the certification authority's certificate policy and certification practice statement.

### 1.3.7 The trusting party

The trusting party is a natural person or an organisation that trusts the certificate information and uses the certificate for authentication and encryption or for authentication, encryption and electronic signing. The trusting party must verify that the certificate is valid and not on a revocation list.

### 1.3.8 Certificate usage

PRC adheres to this certification practice statement when issuing temporary certificates. Certificate holders and trusting parties must comply with this certificate policy.

Temporary certificates issued under this certificate policy can be used for personal authentication and encryption or electronic signing. The certificate can be used without limitation according to its purpose in administrative applications and services and those provided by private organisations.

The certificate policy and certification practice statement contain requirements concerning the obligations of the certification authority, registration authority, certificate holder and trusting party as well as matters related to legislation and dispute resolution.

## 1.4 Contact details

### 1.4.1 Organisation responsible for administering the certification practice statement

This certificate policy has been registered by the Population Register Centre, a public authority which administers a personal information register and, under the Act on the Population Information System and the Certificate Services of the Population Registration Centre (661/2009), is





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3.5.2018

responsible for providing certified electronic services in addition to its other tasks. PRC is responsible for the administration and updating of this certificate policy.

Copyright under this certification practice statement belongs to PRC.

#### 1.4.2 Contact person

Questions regarding this certification practice statement should be addressed to :

Population Register Centre (PRC)

vaestorekisterikeskus@vrk.fi

P.O. Box 123 (Lintulahdenkuja 4)

Tel. +358 (0)295 535 001

00531 Helsinki

Fax. +358 9 876 4369

Business ID: 0245437-2

Questions regarding the certificate policy are handled by the Certificate Services unit of PRC.



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3.5.2018

## 2 General terms and conditions

This certification practice statement is effective as of 3 May 2018. The amendment and publication procedure of this policy is described in section 8 of this document.

### 2.1 Obligations

#### 2.1.1 Certification authority's obligations

- The PRC is a statutory certification authority.
- The client organisation is for its part responsible for revoking certificates in accordance with the agreement made between PRC and the client organisation.
- The client organisation shall verify the accuracy of information about end users in accordance with the agreement made between PRC and the client organisation.
- The certification authority shall act in accordance with current legislation.
- The certification authority shall perform its duties duly and reliably.
- The certification authority has the necessary technical ability, financial resources and ability to cover its liability for damages.
- The certification authority is responsible for all areas of the certification activity, including the reliability and functioning of services and products produced by any technical suppliers or persons who assist the certification authority, such as registration authorities and card manufacturers.
- The Certification authority draws up and maintains a certificate policy which describes at a general level the procedures for the issuance, maintenance and management of temporary certificates, the terms and conditions, the allocation of responsibilities, and other matters related to the use of temporary certificates.
- The certification authority draws up and maintains certification practice statements which describe how the certification authority applies its certificate policy.
- The certification authority complies with its certificate policy and certification practice statement.
- The certification authority makes the certificate policy and the certification practice statement publicly available.
- The certification authority shall employ sufficient staff with the expertise, experience and competence required for producing certificate services.
- The certification authority shall use reliable systems and products protected against unauthorised use.



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3.5.2018

- The certification authority shall keep information regarding the certificate and certificate activities publicly available, based on which the operations and reliability of the certification authority can be assessed.
- The certification authority ensures the confidentiality of signature creation data.
- The certification authority will not store or copy any signature creation data provided to a signatory.

#### 2.1.2 The registration authority's obligations

- The registration authority shall comply with the certificate policy and the certification practice statement in its registration activities.
- The registration authority shall identify the certificate applicant personally and reliably in a way described in the certification practice statement and so that the applicant's identity and other information pertaining to the applicant's person needed in the granting of the certificate will carefully be inspected.
- The registration authority shall see to the careful handling and confidentiality of personal data.
- The registration authority shall provide the certificate applicant with data of the terms of use of the certificate.
- The registration authority shall adhere to registration procedures agreed upon with the certificate authority.

#### 2.1.3 Certificate holder's obligations

- The purpose of the certificate is specified in the certificate policy and certification practice statement of each certificate type and in the certificate holder's instructions. Certificates may only be used in conformance with their intended use for authentication or data encryption or digital signature.
- The holder of a temporary certificate shall see to it that the data stated when applying for temporary certificates are correct.
- The holder of a temporary certificate is responsible for the use of the temporary certificate, legal actions taken with the temporary certificate and their financial consequences.
- The holder of a temporary certificate shall store its private key contained on a microchip and the PIN code required for using it separately from each other and aim to prevent the loss, access by third parties, alteration or unauthorised use of the private key. Transferring the microchip or disclosing the PIN code to a third party, for example by lending, releases the certificate authority and the party trusting the temporary certificate from any liability arising out of the use of the microchip.



VRK/TS/Keh

3.5.2018

- The temporary certificate shall be handled and protected with the same care as other corresponding microchips, cards of documents, such as credit cards, driving licence or passport. Personal PIN codes must be stored physically in a different location than the microchip containing the temporary certificate and private key.
- The loss or potential misuse of the microchip must be reported without delay to the registration authority of the certificate holder's organisation, who will close the certificate in the order and administration system.

#### 2.1.4 Obligations of the party trusting a certificate

It is the obligation of the party trusting a certificate to ensure that the certificate is used according to its intended use. The intended use of an authentication and encryption certificate is the authentication of a person and encryption of data. The intended use of a signature certificate is electronic signing.

A party trusting the certificate must adhere to the certificate policy and certification practice statement.

A party trusting a temporary certificate may bona fide trust a temporary certificate after verifying that the certification chain is intact, the temporary certificate is valid and is **not contained on a revocation list**. A party trusting a temporary certificate shall check the certificates on the revocation list. The certification authority provides an online certificate status check service that implements OCSP. In order to reliably verify the validity of a temporary certificate, the trusting party must comply with the following procedure for revocation list checks.

If a party trusting a temporary certificate copies the revocation list from a directory, it must verify the genuineness of the revocation list by checking the digital signature of the revocation list's certification authority. In addition, the validity period of the revocation list must be checked. The certification authority provides an online certificate status check service that implements OCSP.

If the most recent revocation list cannot be obtained from the directory because of hardware or directory service malfunction, the temporary certificate must not be accepted if the validity period of the last obtained revocation list has expired. All approvals of a temporary certificate after the validity period take place at the risk of the party trusting the temporary certificate.

#### 2.1.5 Obligations pertaining to the publishing of a certificate

Closed temporary certificates are published on a revocation list where a party trusting the certificate must check the certificate's validity. The certification authority provides an online certificate status check service that implements OCSP. Temporary certificates are not published in the directory.



VRK/TS/Keh

3.5.2018

## 2.2 Liabilities

### 2.2.1 Certification authority's liabilities

Population Register Centre as a certification authority is liable for the safety of the entire certificate system. The certification authority is liable for services it has commissioned as if for its own.

Population Register Centre is responsible for the temporary certificate having been created in accordance with the procedures described in the Act on Strong Electronic Identification and Trust Services, the certificate policy and the certification practice statement and according to the data provided by the certificate applicant, and for the temporary certificate meeting the certification authority's liability for damages prescribed by law or, in case of a temporary certificate created for non-regulated healthcare workers or non-clinical healthcare sector staff, in addition to the above also adhering to the regulations set forth in the act on the electronic processing of client data in social and health care (159/2007) and the act on electronic prescriptions (61/2007) and to requirements set on the basis of the above. Population Register Centre is liable only for the data it has stored in the certificate.

Population Register Centre is liable for the usability of the temporary certificate, when used appropriately, throughout its validity period, unless it has been placed on a revocation list. The temporary certificate has been given to a person identified in a manner required for temporary certificates. The certificate holder has been given instructions pertaining to the use of the temporary certificate prior to the signing of the agreement.

When signing a temporary certificate with its private key, the certification authority assures it has checked the personal data in the temporary certificate according to the policies described in the certificate policy and the certification practice statement.

The certification authority is liable for the certificates revoked by the certificate holder's organisation being included in the revocation list within the time specified in this certification practice statement.

### 2.2.2 Registration authority's liabilities

The registration authority of a temporary certificate is a registration point that registers the certificate applicant for Population Register Centre, which acts as the certification authority, on the basis of an agreement concluded for this purpose. The registration authority is liable for the registration it has carried out and for revoking the certificate. With respect to registration, the requirements described in the Act on Strong Electronic Identification and Trust Services and the certification practice statement or, in case of a temporary certificate created for non-regulated healthcare workers or non-clinical healthcare sector staff, in addition to the above the regulations set forth in the act on the electronic processing of client data in social and health care (159/2007) and the act on electronic prescriptions (61/2007) and the requirements set on the basis of the above are also adhered to.



VRK/TS/Keh

3.5.2018

### 2.2.3 Certificate holder's liabilities

The holder of a certificate is liable for the use of the temporary certificate, legal actions taken with it and their financial consequences.

Leaving a card containing a microchip in a reader may enable the abuse of the temporary certificate. When terminating a terminal session, it is the responsibility of the certificate holder to remove the microchip containing the temporary certificate from the reader device and close the applications used appropriately or otherwise closing the technical connection needed for the use of the certificate.

The certificate holder's liability for the use of the certificate ends when they have notified the registration authority of the certificate holder's organisation on the need to revoke the certificate and upon receiving a notice of the receipt of the revocation request. In order to terminate liability, the revocation request must be made immediately upon noticing the reason for the request.

### 2.2.4 Liabilities of a party trusting a certificate

A party trusting a certificate may not bona fide trust the correctness of a temporary certificate if the validity of the temporary certificate has not been verified with a revocation list. Accepting a temporary certificate in the above cases releases Population Register Centre of liability. A party trusting a temporary certificate shall verify that the certificate granted corresponds to its intended use in the legal action in which it is used.

### 2.2.5 Limitations of liability

Population Register Centre is bound by the regulations conformant to the Act on Strong Electronic Identification and Trust Services (617/2009) and, where applicable, to the Tort Liability Act (412/1974).

Population Register Centre is not liable for damage caused by the disclosure of a PIN code or a certificate holder's private key unless said disclosure is the direct result of Population Register Centre's direct actions.

The maximum extent of Population Register Centre's liability to the certificate holder and a party trusting the certificate is for direct damage incurred, in case the damage is the result of Population Register Centre's direct actions, however at most 15% of the amount of certificate invoicing for the client organisation in question for the preceding 3 months (share payable to PRC).

Population Register Centre is not liable for indirect or consequential damage caused to the certificate holder. Neither is Population Register Centre liable for the indirect or consequential damage incurred by a party trusting a temporary certificate or by another contractual partner of the certificate holder.



VRK/TS/Keh

3.5.2018

Population Register Centre is not responsible for the operation of public telecommunication connections, such as the Internet, or for the inability to execute a legal transaction because of the non-functionality of a device or card reader software used by the certificate holder or for the use of a certificate in contradiction to its intended use.

The certification authority has the right to interrupt the service for changes or maintenance. Changes to or maintenance of the revocation list will be announced in advance.

The certification authority has the right to further develop the certificate service. A certificate holder or a party trusting a certificate must bear their own expenses thus incurred, and the certification authority is not liable to compensate the certificate holder or a party trusting the certificate for any expenses caused by the certification authority's development work.

The certification authority is not liable for errors in the online service or applications intended for end users and based on a certificate or any resulting expenses.

## 2.3 Financial liability

### 2.3.1 Certification authority

Population Register Centre is bound by the regulations conformant to the Act on Strong Electronic Identification and Trust Services (617/2009) and, where applicable, to the Tort Liability Act (412/1974). Population Register Centre is liable at most for the direct damage incurred by a party trusting a certificate in accordance with the provisions of the section Limitations of Liability.

### 2.3.2 Other parties

A party trusting a temporary certificate may trust the correctness of a temporary certificate if it has verified that the certification chain is intact, the temporary certificate has not been included in a revocation list, the validity of the certificate has not expired and the party has no other justifiable reason to doubt the correctness of the use of the certificate. The certification authority provides an online certificate status check service that implements OCSP.

The certification authority is responsible for the temporary certificate in accordance with the certification authority's commitments in this certificate policy and the certification practice statement on temporary certificates.

### 2.3.3 Certification authority's financial administration

The certificate services produced by Population Register Centre are covered by a financial administration system and supervision as has separately been set forth. The Population Register Centre is a government agency under the Ministry of Finance. The financial management of PRC is based on acts and decrees that govern central government finances and regulations issued by the Ministry of Finance and the Treasury. The National Audit Office is responsible for financial oversight of PRC. In addition, its performance is reviewed from the points of view of effectiveness, economy and productivity.



VRK/TS/Keh

3.5.2018

## 2.4 Interpretation and implementation

### 2.4.1 Applicable legislation

Population Register Centre is bound by the regulations conformant to the Act on Strong Electronic Identification and Trust Services (617/2009) and, where applicable, to the Tort Liability Act (412/1974). In case of a temporary certificate created for non-regulated healthcare workers or non-clinical healthcare sector staff, in addition to the above the regulations set forth in the act on the electronic processing of client data in social and health care (159/2007) and the act on electronic prescriptions (61/2007) and the requirements set on the basis of the above are also adhered to.

In accordance with the Act on Electronic Services and Communication in the Public Sector, certificates can be used in all communication with public administration.

Population Register Centre conforms to the principles of good personal data processing set forth in the Personal Data Act (523/1999) and to the good information management practices of the Act on the Openness of Government Activities (621/1999). Population Register Centre also secures information security with continuous training. Population Register Centre has also prepared policy rules for information services and certificate services.

Population Register Centre procures the duties pertaining to registration and personal identification under a separate, private-law contract pertaining to registration measures. Population Register Centre may obtain a service, for example, by adhering to the regulations set forth in the act on the government's joint services (223/2007).

The position of Population Register Centre is prescribed in the register administration act (166/1996) and decree (248/1996).

The Population Register Centre ensures that temporary certificates are created in accordance with the procedures defined in the Act on Strong Electronic Identification and Trust Services, the certificate policy and the certification practice statement. Further, the temporary certificate shall be created on the basis of the information provided by the certificate applicant or, in case of a temporary certificate created for non-regulated healthcare workers or non-clinical healthcare sector staff, in addition to the above the regulations set forth in the act on the electronic processing of client data in social and health care (159/2007) and the act on electronic prescriptions (61/2007) and the requirements set on the basis of the above are also adhered to.

The operations of Population Register Centre are supervised by Finnish Communications Regulatory Authority (FICORA), a body conformant to the Act on Strong Electronic Identification and Trust Services, which provides the necessary regulations and recommendations for the operations.

With respect to the processing of personal data, Population Register Centre conforms to the Personal Data Act. Population Register Centre works in constant collaboration with the Office of the Data Protection Ombudsman with respect to the processing of personal data.





VRK/TS/Keh

3.5.2018

Applicable legislation is adhered to in settling appeals and disputes, in administrative supervision and implementation of law.

#### 2.4.2 Settling of disputes

When granting certificates, Population Register Centre is responsible for the certificates meeting the requirements set in this certification practice statement and the certificate policy for temporary certificates. Any disputes shall be settled according to Finnish law.

#### 2.5 Fees

This section specifies the fees related to the use of a temporary certificate.

##### 2.5.1 Granting and renewing a temporary certificate

Temporary certificates are applied for according to the description of the certification practice statement.

The price of acquiring a backup card is determined according to the then-valid Decree of the Ministry of Finance on the payment of Population Register Centre fees.

Temporary certificates are priced according to Population Register Centre's price list pertaining to commercial services.

##### 2.5.2 Fees related to the use of a temporary certificate

The certification authority does not separately charge the certificate holder for the use of the certificates, the revocation service or a public directory. Individual online service providers may charge for the use of their services. The use of a certificate does not require a specific announcement or permit from the certification authority.

##### 2.5.3 Fees related to the revocation list entry of a temporary certificate

Reporting a temporary certificate to a revocation list is free of charge. Also the retrieval of revocation lists from the directory and the checking of the validity of temporary certificates against the revocation list are free of charge. The certification authority provides an online certificate status check service that implements OCSP.

##### 2.5.4 Other fees

The use of advisory services is subject to a separate fee according to the then-valid price list.

If the service provider wishes to arrange for information maintenance service between the unique identifier of the temporary certificates and the identifiers of its own background system or between other updated data, the service provider may apply for information disclosure permission in the information service from Population Register Centre. This service will be priced according to the then-valid Act on Criteria for Charges Payable to the State and the Decree of the Ministry of Finance on the payment of Population Register Centre fees.



VRK/TS/Keh

3.5.2018

The terms of use of a temporary certificate are given to the holder of the temporary certificate when receiving the temporary certificate.

## 2.6 Publishing and availability of data

### 2.6.1 Publishing of the certification authority's data

The certification authority publishes the certification authority's certificates and revocation lists in a non-chargeable, publicly available, public directory. The created temporary certificates are not published. The certification authority publishes the certificate policy, the certification practice statements, the PKI disclosure statement (PDS) and other public documents pertaining to the production of certificate services on its website.

### 2.6.2 Publication frequency

The certification authority publishes a revocation list that is valid for eight hours from its publication. This revocation list is updated once per hour with a new one.

### 2.6.3 Availability of data

Directory and revocation list data are publicly available. The FINEID specifications published by the certification authority are available on the certification authority's website. In addition, the certificate policies and certification practice statements are available on the certification authority's website.

### 2.6.4 Repositories

Information published by the Certification authority is available on its website and in a public directory in accordance with this certification practice statement. Confidential data used in the certificate system are stored in the CA's own confidential repository. The certification authority's data are archived according to the valid archiving rules. Special attention is paid to the handling of personal information, and PRC has published a specific set of procedures for the provision of certificate services in accordance with the Personal Data Act. The certification authority has also prepared the certificate system's register description conformant to the Personal Data Act with respect to the processing of personal data.

## 2.7 Information security audit

Finnish Communications Regulatory Authority (FICORA), which supervises the providers of identification services, may audit the operation of an identification service provider under the prerequisites set forth in the Act on Strong Electronic Identification and Trust Services.

### 2.7.1 Audit frequency

Population Register Centre audits the facilities, devices and operations of its technical suppliers in an appropriate fashion. The audit is carried out at least once a year and at the start of each new contract period. In its audit procedure, the Population Register Centre adheres to the practices set out in the ISO/IEC 27001 information security management standard.



VRK/TS/Keh

3.5.2018

The audit is carried out to determine the technical supplier's compliance with the agreement, taking into account the requirements of information security management standards. Technical suppliers are generally assessed on the basis of the ISO/IEC 27001 standard.

#### 2.7.2 Auditor

Population Register Centre's information security audit is carried out by Population Register Centre's Head of Information Management or an external auditor specialised in auditing technical vendors pertaining to certificate services.

#### 2.7.3 Audit objects and scope

The objects of the audit are determined by the Act on Strong Electronic Identification and Trust Services or, if Population Register Centre is carrying out the audit, the information security standard ISO/IEC 27001 or the technical terms of delivery.

The audit is carried out considering the implementation of the eight areas of information security. Audited information security properties include confidentiality, integrity and availability.

The audit compares the policy, certification practice statement and application instructions to the operation of the entire certificate organisation and system. Population Register Centre ensures that the application instructions are consistent with the certificate policy.

In audits, attention is paid to information security in administration as well as various service providers, for example, on the basis of the following categories:

Revocation service:

- Communications security
- Human resources security
- Physical security

Certificate production:

- task allocation and personal tasks – human resources security
- physical security
- Security related to the CA's keys
- The certificate production system and the backup system
- Communications security



VRK/TS/Keh

3.5.2018

Card production:

- the production line as a whole from end to end
- quality control of card production
- communications security
- human resources security
- physical security

Directory service:

- components used
- control connections
- directory maintenance and operation in fault situations
- human resources security
- communications security
- physical security

HelpDesk operation:

- communications security
- personnel's competence and training
- processes for auxiliary functions

#### 2.7.4 Measures resulting from deviations

Observed deviations are recorded in the audit report and reacted to in accordance with legislation, the information security standard ISO/IEC 27001 and the valid terms of delivery.

#### 2.7.5 Communicating the result of an audit

The results of an audit are communicated according to the law, the information security standard ISO/IEC 27001, Population Register Centre's information security policy and the valid terms of delivery. A detailed, fixed-form audit result intended for internal use is confidential and will not be disclosed to the public. Fixed-form reports are prepared separately for use outside of the organisation.

Population Register Centre communicates the results of audits to Finnish Communications Regulatory Authority (FICORA) among others.



VRK/TS/Keh

3.5.2018

## 2.8 Publication of data

### 2.8.1 Data published by the certification authority

The data in the certificate system are confidential unless they are based on the regulations on information disclosure set forth in the Personal Data Act, the Act on the Openness of Government Activities, the Act on the Population Information System and the Certificate Services of the Population Register Centre (661/2009) the Act on Strong Electronic Identification and Trust Services or for purposes set forth in the certificate policy or certification practice statement.

### 2.8.2 Public data

The data of the public directory and the revocation list are public, as are the certification practice statements and the data specified in the certificate policy and the published FINEID specifications.

### 2.8.3 Data pertaining to the expiry or revocation of a temporary certificate

The time of validity start, and end of a temporary certificate are contained in the temporary certificate. Certificates revoked during their validity period are published on a revocation list available to all.

### 2.8.4 Data disclosed to authorities

The data disclosed to authorities are specified according to the valid legislation.

### 2.8.5 Other data

The data of the certificate system are not disclosed for purposes other than those listed above in this section.

### 2.8.6 Disclosure of data on the request of the certificate holder

The holder of a certificate has the right to receive information pertaining to him/her, for example personal data, in accordance with the applicable legislation.

### 2.8.7 Other principles concerning disclosure of information

It is material for the reliability of the certification authority that Population Register Centre take all measures to see to the secrecy of confidential material it obtains in connection with the certificate activities and to the good administration of data unless otherwise required by legislation pertaining to the right of authorities to obtain information on the operation of the certificate system.

Population Register Centre conforms to the Personal Data Act and specific legislation in the processing of personal data. Population Register Centre has prepared the policy rules for the processing of personal data in connection with information disclosure and with the certificate activities. Special care must be taken when processing personal data.



VRK/TS/Keh

3.5.2018

## 2.9 Intellectual property rights

Population Register Centre owns all data pertaining to the certificates and documentation in accordance with the technical terms of delivery. Population Register Centre has full ownership and utilisation rights to this certification practice statement and temporary certificate policy.

## 3 Identification of certificate applicant

### 3.1 Registration

Sections 4.1–4.3 present the procedures and processes that are adhered to in the identification and authentication of certificate holders.

The application document clearly states that the applicant for a temporary certificate confirms the correctness of the information provided with his/her signature and approves the creation of the temporary certificate. At the same time, the applicant accepts the rules and terms pertaining to the use of temporary certificates and sees to the storage of temporary certificates and PIN codes and the reporting of any misuse or lost card.

Agreements have been concluded between the certification authority, registration authority and other vendors that produce parts of the certificate services, indisputably specifying the rights, liabilities and obligations of all parties. The applicant of temporary certificates is responsible for the correctness of all material data that the applicant of a temporary certificate has given the certification authority or registration authority. The holder of temporary certificates must use the temporary certificates only for their intended use.

When a certification authority grants a temporary certificate, it also approves the application for certificate.

It is the responsibility of the holder of temporary certificates to prevent the use of private keys and the related PIN codes belonging to him/her in a way contradictory to the terms of use and to take care of them as set forth in the terms of use.

The certificate holder must immediately report the need to revoke a temporary certificate to the registration authority of the certificate holder's organisation if he/she suspects the possibility of use in contradiction to the terms of contract.



VRK/TS/Keh

3.5.2018

### 3.1.1 Naming policies

The PRC's root certificate authority is:

CN (Common name) = VRK Gov. Root CA

OU (Organizational unit) = Varmennepalvelut

OU (Organizational unit) = Certification Authority Services

O (Organization) = Vaestorekisterikeskus CA

S (State) = Finland

C (Country) = FI

The PRC's certification authority for temporary certificates is:

CN (Common name) = VRK CA for Temporary Certificates – G2

OU (Organizational unit) = Tilapaisvarmenteet

O (Organization) = Vaestorekisterikeskus CA

C (Country) = FI

Certificate holder naming policy for temporary certificates:

2.5.4.5 (Serial Number) = Unique identifier

SN (Surname) = Surname

G (Given name) = Given name

CN (Common name) = Surname Given name Unique identifier

C (Country) = FI

Optional fields:

O (Organization) = Name of the organization

OU (OrganizationalUnit) = The organizational unit



VRK/TS/Keh

3.5.2018

T (Title) = Title

E (EmailAddress) = Email address

UPN (Universal Principal Name) = The UPN name

The certification authority's public key is part of the certification authority's certificate. The certification authority's certificate is available in a public directory. If a temporary certificate is located on a backup card, the certification authority's certificate is also placed on the microchip of the backup card.

Data pertaining to the certificate holder unambiguously identify the certificate holder. The certification authority will determine the official identity of the certificate holder, if necessary.

### 3.1.2 Delivery of private keys to the certificate holder

A private key pertaining to a temporary certificate, created on a microchip or other secure environment, is delivered to the certificate holder in connection with delivery.

A replacement card that contains a temporary certificate must be collected by the certificate holder in person by visiting the CA's registration authority. The temporary certificate holder must prove his or her identity in accordance with the procedure used in the application stage. The method of identification is recorded in the receipt note, which is signed by the customer and the registration authority who hands over the replacement card.

### 3.2 Renewal of key pair

The public keys in the temporary certificates and the private keys in the microchip cannot be renewed. The creation of a new key pair requires a new temporary certificate.

The renewal of the temporary certificate adheres to the same procedures as when applying for the certificate for the first time.

### 3.3 Renewing a key pair after inclusion on revocation list

The public keys in the temporary certificates and the private keys in the microchip cannot be renewed. The renewal of the temporary certificate adheres to the same procedures as when applying for the certificate for the first time.

### 3.4 Identification of the requester of revocation

The holder of a temporary certificate may have the certificate revoked before the expiration of the temporary certificate's validity period.

The registration authority of the certificate holder's organisation carries out the revoking of the certificate upon detecting that the certificate has become misplaced or the possibility of its misuse.





VRK/TS/Keh

3.5.2018

The certificate must be revoked immediately when suspecting the misuse of a certificate, for example because of loss or theft.

All electronic transactions related to the revoking are archived.



VRK/TS/Keh

3.5.2018

## 4 Operational requirements

### 4.1 Applying for a certificate

The rights and obligations of a certificate applicant are specified in contract documents and general instructions for use, which comprise an agreement concluded with the certificate applicant. The application document contains the details of the rights and obligations of both parties. When an applicant for a temporary certificate applies for a temporary certificate, he/she also accepts the general terms of use.

The application document and instructions for use clearly state that the applicant for temporary certificate, with his/her signature, approves the correctness of the information provided and the creation of the certificate and its publication in the public directory. At the same time, the applicant accepts the rules and terms pertaining to the use of temporary certificate and sees to the storage of temporary certificates and PIN codes and the reporting of any misuse or lost certificates/microchip.

Applications for a temporary certificate are made in person by visiting the registration authority's registration point. The applicant's identity is validated from valid identity documentation issued by the police, which can be a personal identity card issued after 1 March 1999, a passport, or a driving licence issued after 1 October 1990. Other acceptable forms of identity are: a valid passport or identity card issued by an official government agency of an EEA member state, Switzerland or San Marino, a valid driving licence issued by an official government agency of an EEA member state after 1 October 1990, or a valid passport issued by an official government agency of another state. The method of identification is recorded in the application form and confirmed by signature by the registration clerk.

### 4.2 Granting of a certificate

The certification authority grants a temporary certificate upon accepting the application for certificate.

When granting a temporary certificate, the certification authority is responsible for its data content being correct at the time of delivery of the certificate.

### 4.3 Receiving a certificate

Temporary certificates are retrieved personally at a point of registration.

At the time of handing out the certificate, it is emphasised to the certificate applicant that there are no copies of the private key and no copies can be made later.



VRK/TS/Keh

3.5.2018

#### 4.4 Termination and interruption of the validity of a certificate

##### 4.4.1 Prerequisites for revoking a certificate

A temporary certificate must be included in a revocation list when there is reason to suspect misuse, for example because of loss or theft.

##### 4.4.2 Requester of revocation

The revoking of the certificate is done by the registration authority in the certificate holder's organisation.

##### 4.4.3 Revocation transaction

The revocation of a certificate can be done through the card ordering and administration system offered by Population Register Centre

Information of the inclusion of a certificate on a revocation list will be publicly available within an hour of the revocation request having been deemed valid and approved. The revocation list is valid for eight hours.

##### Revocation of a temporary certificate

The certificate holder is responsible for revoking certificates. A temporary certificate can be revoked to prevent its use. However, any other applications stored in the card platform can still be used according to their designated purpose.

The certificate holder's liability for the use of the certificate ends when they have notified the registration authority of the certificate holder's organisation on the need to revoke the certificate and upon receiving a notice of the receipt of the revocation request. In order to terminate liability, the revocation request must be made immediately upon noticing the reason for the request.

Revoked certificates cannot be reinstated.

##### Revocation of a certificate by the Population Register Centre

Population Register Centre does not carry out certificate revocation in any cases except the following:

- The Population Register Centre will revoke a certificate issued by it if an error is found in its data content.
- Population Register Centre may revoke certificates signed with its private key if there is reason to believe that Population Register Centre's private keys have become disclosed or accessed by unauthorised parties.



VRK/TS/Keh

3.5.2018

- All certificates that are valid and have been granted with the exposed key must be closed on one or several revocation lists whose validity period does not expire until the validity of the last revoked certificate has expired.
- If the private key used by the Population Register Centre in certificate creation or another technical method has become exposed or otherwise unusable, the Population Register Centre must duly notify all cardholders and the Finnish Communications Regulatory Authority of the event.
- Population Register Centre may also revoke a certificate for other special reasons.

#### 4.4.4 Timing of a revocation event

Certificates are revoked immediately in connection with a revocation request. Revoked temporary certificates cannot be reinstated.

#### 4.4.5 Requirements for terminating the validity of a certificate

The validity of temporary certificates cannot be interrupted temporarily.

#### 4.4.6 Creator of revocation request

The validity of temporary certificates cannot be interrupted temporarily.

#### 4.4.7 Making a revocation request

The validity of temporary certificates cannot be interrupted temporarily.

#### 4.4.8 Limitations of the revocation period

The validity of temporary certificates cannot be interrupted temporarily.

#### 4.4.9 Publishing frequency of the revocation list

Information of the inclusion of a certificate on a revocation list will be publicly available within an hour of the revocation request having been deemed valid and approved. The revocation list is valid for eight hours.

The revocation list contains the time of publication of the next revocation list.

The new revocation list will be published by the expiration of the validity of the valid revocation list.

In case of system updates and other exceptional situations, the certification authority may publish revocation lists at a different frequency and extended validity periods.

#### 4.4.10 Revocation list requirements

The obligations of a party trusting the certificate are described in section 2.1.4.



VRK/TS/Keh

3.5.2018

#### 4.4.11 Online certificate status check

The certification authority provides an online certificate status check service that implements OCSP. The certification authority publishes a revocation list of revoked certificates.

#### 4.4.12 Requirements related to online certificate status check

The certification authority provides an online certificate status check service.

#### 4.4.13 Special requirements pertaining to the exposure of the certificate holder's private key

It is the certificate holder's responsibility to protect the use of his/her private key by taking care of his/her microchip or card and PIN codes as described in the instructions for use. The certificate holder must immediately report the need to revoke a temporary certificate to the registration authority of the certificate holder's organisation if he/she suspects the possibility of use in contradiction to the terms of contract.

#### 4.5 System supervision

For supervision purposes, the certification authority stores log data about certificate production events, the certificate system's access management, hardware configuration, system software and application software, their changes, backups and recoveries. In addition, the CA supervises documents related to the activity. Any non-conformances will be reported as agreed.

#### 4.6 Archiving of data pertaining to certificates

##### 4.6.1 Material stored

The provisions of the Archive Act (831/1994) are applied as the general law for archiving. The right to obtain information is determined according to the Act on the Openness of Government Activities (621/1999). With respect to the archiving of certificates, the provisions pertaining to archiving in electronic services legislation are also applied. The data of the certificate register are stored for at least 5 years from the expiration of the certificates or, in case of a temporary certificate created for non-regulated healthcare workers or non-clinical healthcare sector staff, in addition to the above the regulations set forth in the act on the electronic processing of client data in social and health care (159/2007) and the act on electronic prescriptions (61/2007) and the requirements set on the basis of the above are also adhered to.

The certification authority archives the following information:

- a) The application form signed by the applicant, and the acknowledgement of receipt of the replacement card and the associated terms and conditions.
- b) Issued certificates, their data contents and additional details related to their life cycle management starting from the time of expiry or revocation of the certificate.
- c) Events related to the creation or renewal of the CA's private key.



VRK/TS/Keh

3.5.2018

- d) Certificate revocation requests.
- e) Revocation lists submitted to the public directory and other information related to certificate revocation.
- f) Current and previous versions of the certificate policy and the corresponding certification practice statements.
- g) User actions by the administrators and users of the certificate system who are registered users of the certificate system are recorded in log files.
- h) Audit reports and records, including data security audits and system audits.

The archive data are stored in accordance with regulations pertaining to authorities.

#### 4.6.2 Protection of archives

Archived data are stored on high-security premises with access control.

#### 4.6.3 Backup methods for archived data

Backups are stored in a place physically separate from the original data.

#### 4.6.4 Acquisition and backup methods for archived data

If the CA's service is interrupted or terminated, the CA shall notify all of its customers that the archive will continue to be available. All archive queries should be sent to the CA or other party which is designated by the CA before it terminates its service.

The certification authority ensures the availability and readability of the archives even in the event that the certification authority's operations are interrupted or terminated.

Archived data will be made available as deemed appropriate from the point of view of the certificate holder or the trusting party.

#### 4.7 Management of the continuity of operations and handling of deviations

Population Register Centre has a continuity and preparedness plan that enables the continuity of the operations of Population Register Centre.

##### 4.7.1 The certification authority's private key has become disclosed or the certification authority's certificate has been revoked

In each certification practice statement, the certification authority states the measures that the certificate holders, parties trusting the certificate and registration authorities and the certification authority's staff must take if the certification authority's private key has become disclosed or otherwise unusable.



VRK/TS/Keh

3.5.2018

In such cases, the certification authority will either suspend its service as described in section 4.8 or carry out the following measures:

- a) The certification authority notifies all certificate holders, trusting parties, and clients with whom the CA has agreements in place or who are otherwise, on the grounds of a contractual relationship or government activities, in a relationship with the CA that entitles them to be notified by the CA.
- b) The certification authority creates a new key in accordance with Chapter 6.
- c) All certificates that are valid and have been granted with the exposed key are closed on one or several revocation lists whose validity period does not expire until the validity of the last revoked certificate has expired.
- d) The certification authority archives the required data as per the Act on Strong Electronic Identification and Trust Services for the statutory period and otherwise complies with the Archives Act.

#### 4.7.2 Compromised security because of a natural disaster or other catastrophe

Population Register Centre's security policy takes into account the measures necessitated by the compromising of external security. Population Register Centre is ISO/IEC 27001 certified with respect to information security, setting the requirements for Population Register Centre's operations also after the occurrence of a catastrophe. The Population Register Centre will comply with the procedures referred to in section 4.7 as regards the issuance and maintenance of certificates.

#### 4.8 End of the certification authority's operations

The termination of the certification authority is considered to be a situation where all services related to the granting of the certification authority's certificates are permanently terminated. The termination of the certification authority does not refer to a situation where the certification service is transferred from one organisation to another.

The certification authority communicates the termination of the certificate services to the parties specified in section 4.7.1 a) as soon as possible, however at least one month before the time of termination.

Before the termination of the certification authority, at least the following measures will be taken:

- a) All certificates that are valid and have been granted are closed on one or several revocation lists whose validity period does not expire until the validity of the last revoked certificate has expired.
- b) The certification authority will revoke all authorisations of its contractual partners to carry out tasks pertaining to the granting process of certificates on behalf of the certification authority.



VRK/TS/Keh

3.5.2018

- c) The certification authority ensures that access to the certification authority's archives as set forth in section 4.6 will be maintained also after the termination of the certification authority.
- d) The certification authority sees to the archiving of data conformant to the Act on Strong Electronic Identification and Trust Services and otherwise adheres to the regulations of the Archive Act with respect to the archiving of data or, in case of a temporary certificate created for non-regulated healthcare workers or non-clinical healthcare sector staff, in addition to the above the regulations set forth in the act on the electronic processing of client data in social and health care (159/2007) and the act on electronic prescriptions (61/2007) and the requirements set on the basis of the above are also adhered to.





VRK/TS/Keh

3.5.2018

## 5 Physical, operational and staff security requirements

An information security certificate has been granted to Population Register Centre, affirming that PRC's information security meets the requirements of the ISO/IEC 27001 standard.

Population Register Centre uses technical vendors for carrying out the information technology tasks of the certificate service. PRC is responsible, as the certification authority, for the safety and operation of certificate production in an appropriate way in all of its sub-areas.

The Population Register Centre adheres to good information management practices. Services related to certificate provision are organised within the Certificate Services unit of the PRC.

### 5.1 Arrangements related to physical security

#### 5.1.1 Location and building properties

The certification authority's systems are located in high-security data centres and meet the instructions and orders imposed on data centres regarding security.

Facility safety has been implemented in such a way that access to the facilities by unauthorised parties is prevented.

#### 5.1.2 Physical access to facility

Facilities where production duties for the certificate system are carried out have controlled physical access. The access control system detects authorised and unauthorised entry. Access to data centre facilities requires the identification of the person, whereby the person is identified and the access right is verified and the transactions are registered. Data centre facilities are guarded at all times of the day.

#### 5.1.3 Electricity supply and air conditioning

The data centre facilities have an appropriate air conditioning system. Built-in backup power solutions are in place to protect against unexpected power cuts.

#### 5.1.4 Fire safety

The data centre facilities are fitted with the necessary fire alarm mechanisms, first-aid fire-fighting equipment, and automatic fire extinguishers.

#### 5.1.5 Data storage

Archive data and backup copies are stored separately away from the CA's hardware systems.

Data are protected against loss, modification and unauthorised use.



VRK/TS/Keh

3.5.2018

#### 5.1.6 Handling of redundant data

Classified data are destroyed using reliable techniques.

#### 5.1.7 Water damage

The data centre facilities are fitted with appropriate humidity detectors.

#### 5.1.8 Auxiliary arrangements

The hardware solutions have been implemented according to good information administration practice in such a way that in the event of system failure, a backup system can be used without compromising the confidentiality, integrity or availability of the data contained in the system.

The supply and maintenance of spare parts for important devices has been ensured.

### 5.2 Operational requirements

#### 5.2.1 Division of responsibility

Population Register Centre uses technical vendors for the registration and information technology duties of certificate production. Population Register Centre serves as the certification authority that is responsible for certificate activities.

The certification authority's tasks are comprised of the following areas of responsibility:

- Data security
- Registration
- System administrator
- System user
- System supervisor

The certification authority and the technical supplier have concluded a supply agreement which contains detailed descriptions of the supplier's duties, methods and responsibilities and the data security provisions.

#### 5.2.2 Number of staff required for the duties

The creation, activation, backup and recovery of the certification authority's private key are carried out under supervision when two persons authorised to carry out maintenance on the system are present.

The revocation of the certification authority's private key is possible only under the supervision of two authorised persons.



VRK/TS/Keh

3.5.2018

At least two persons authorised to carry out maintenance on the system are present when the certification authority's private key's hardware security module is initialised.

The use of the system requires the presence of at least one person authorised to do so.

The registration of a temporary certificate requires the presence of one person.

### 5.2.3 Task-specific identification

The registration authority of a temporary certificate:

The registration authority is identified on the basis of a user ID. The registration authority is an organisation which has a registration agreement with the Population Register Centre.

The certificate system administrator:

Identified on the basis of a personal system management card. System administrators include the system specialists of the certificate system supplier and authorised personnel of PRC.

Certificate system user:

Identified on the basis of a personal system access card. The certificate system's users include data centre operations, technical certificate request initiators, and the revocation service.

## 5.3 Personal security

Population Register Centre serves as the certification authority that is responsible for certificate activities. The technical vendors have been selected through competition and work at the responsibility and on behalf of Population Register Centre.

Population Register Centre pays particular attention to the reliability of both its own staff and the technical vendors and registration authorities and to their skills needed for the execution of the tasks.

### 5.3.1 Carrying out a background check on the staff

Population Register Centre has a basic security clearance done for its staff and the persons of the technical vendors who work with the certificate information system.

### 5.3.2 Procedure adhered to in the security clearance

Employees' work experience is mapped during the recruitment stage, and each applicant completes a form which is submitted to the Finnish Security Intelligence Service for background check purposes.

All relevant personnel of the certification authority, certificate service and directory service providers, revocation service, and the card manufacturer must:



VRK/TS/Keh

3.5.2018

- complete a form which is submitted to the Finnish Security Intelligence Service for background check purposes;
- refrain from duties which are in conflict with their obligations and responsibilities;
- not be persons known to have been released from a previous duty on the grounds of negligence of duty or misconduct;
- be appropriately qualified for the duties they are taking on.

### 5.3.3 Requirements on training

Population Register Centre's staff must be trained so that duties can be carried out in the best possible way. Population Register Centre has a training plan the implementation of which is the responsibility of Population Register Centre's administration unit.

### 5.3.4 Maintenance of expertise and skills

Staff training is planned and maintained in such a way that the expertise related to the management of the task is always at the best possible level required by the task.

### 5.3.5 Requirements for task rotation

When task rotation is planned for the certification authority's tasks, they are organised in such a way that the person can see to his/her new duties in the best possible way. The implementation of task rotation must also take into account the retention of good information administration practice and the maintenance of sufficient task-specific skill levels.

Task rotation also adheres to Population Register Centre's information security policy and information security plan as well as Population Register Centre's other general instructions.

### 5.3.6 Measures resulting from deviations

Population Register Centre's staff work subject to official liability and in accordance with the internal instructions of Population Register Centre. The position of a public official is set forth in the State Officials Act (750/1994).

### 5.3.7 Staff representing the organisation

When recruiting staff, it must be seen to that the staff's skills correspond to the requirements of the task and that there is nothing detected in the person's background check that would put the person's interests at odds with the production of certificate services.

### 5.3.8 Documents given to the staff

The staff always has access to Population Register Centre's quality and security documents.



VRK/TS/Keh

3.5.2018

## 6 Technical security arrangements

### 6.1 Generation and storage of key pairs

#### 6.1.1 Generating key pairs

Each key is created on the basis of a random number input which is sufficiently long or generated in a way that makes it impossible to trace back computationally even if the time of creation and the device used to create it are known. In addition, the algorithm and method used to generate the random number meet the qualitative requirements, which include e.g. the reliability of the algorithm, the non-repeatability of the generation method, and the genuine randomness of the random number. The certification authority will not publish the probability accuracy or method.

#### **Certification authority:**

The certification authority generates its private signature keys and corresponding public keys. The keys are stored in hardware security modules administered by the certification authority. The modules meet the FIPS 140-1 Level 3 requirements.

#### **Certificate holder:**

Keys are generated directly in conjunction with certification. The private key is stored on a read-and-write-protected replacement card.

The certification authority generates the certificate holder's keys by a secure method.

#### 6.1.2 Delivery of a private key to certificate holder

A temporary certificate which contains the certificate holder's private key and cannot be activated without the original PIN is issued to the certificate holder at the time of registration.

The temporary certificate holder must prove his or her identity in accordance with the procedure used in the application stage. The method of identification is recorded in the receipt note, which is signed by the customer and the registration authority who hands over the replacement card.

#### 6.1.3 Delivery of the certificate holder's public key to the certification authority

The integrity of public keys is protected until certification is performed. Once keys are generated, the card manufacturer submits certificate requests to the certificate system. The certificate request includes the public key and other certificate data. The connection between the certificate request system and the certificate generation system is encrypted, and persons who boot the system are identified with management cards issued by the certification authority.



VRK/TS/Keh

3.5.2018

#### 6.1.4 Distribution of the certification authority's public key to the certificate holder

The certification authority's public key is held in the CA certificate, which is located on a replacement card. The CA certificates are freely distributable and available in a public directory and the CA's online service.

#### 6.1.5 Key lengths

The certification authority's private key, which is used to sign organisation certificates, and the corresponding public key are 4096-bit RSA keys.

The certificate holder's private and public key are 2048-bit RSA keys.

#### 6.1.6 Intended use of keys

The data content of the certificate has a field that determines the intended use, determining the intended use of the related key (e.g., authentication and encryption). The use of the key is restricted to its intended use. A key intended for authentication and data encryption must be used only for this purpose and a key intended for signing only for digital signing.

##### **CA certificate:**

Purpose: Signing of certificates and revocation lists. The technical description is in the FINEID S2 specifications.

##### **Certificate holder's authentication and encryption certificate:**

Purpose: Electronic identification or data encryption.

##### **Certificate holder's signature certificate**

Purpose: Digital signature.

#### 6.2 Protection of private key

##### 6.2.1 Standards for the hardware security module

The certification authority's private keys are stored in hardware security modules administered by the certification authority, meeting the requirements of the necessary security standard.

The certification authority sees to it that the certification authority's private keys are protected against disclosure and unauthorised use. A backup is made of the certification authority's private keys in a manner conformant with critical information security.

##### 6.2.2 Staff participating in the handling of the certification authority's private key

The generation of the private key requires the simultaneous presence of or activation of operation by at least two persons.



VRK/TS/Keh

3.5.2018

### 6.2.3 Disclosure of private key to a trusted party

Cardholders' private keys are generated in a secure way as required for the certificate. Key pairs generated by the card holder are not accepted. A private key cannot be transferred or copied from an ID card. The certification authority or the card manufacturer are not able to access the private keys of users.

When the keys are generated, they have not been allocated to any person.

### 6.2.4 Backup of a private key

The certification authority's private keys and their backups are stored with strong encryption in devices that meet the requirements of critical information security.

### 6.2.5 Archiving of private keys

The certification authority's private keys are stored in hardware security modules administered by the certification authority.

### 6.2.6 Administration of private keys in hardware security modules

The certification authority's private signature keys are protected with physical and logical security measures of high reliability. They are used only in a system placed in a secure environment. The use of keys is controlled with management cards which are protected against unauthorised use.

The certification authority's employees who work in trusted roles have a PIN-protected management card. The management cards are used to verify the user's access privileges to the certificate system or other related systems.

When a CA key is no longer in use, the key is destroyed in such a way that it cannot be retrieved or regenerated. Backup copies of the key are destroyed at the same time. The disposal of broken devices is organised in such a way as to reliably destroy private keys from both hardware and software (by a sufficient number of overwrites).

## 6.3 Other key management issues

### 6.3.1 Public key archiving

The certification authority archives all public keys it has certified.

### 6.3.2 Usage period of public and private keys

The usage period of a temporary certificate is as agreed, however at most three (3) months. The certificate can be revoked during its validity.



VRK/TS/Keh

3.5.2018

## 6.4 Activation data

### 6.4.1 Creation and commissioning of activation data

The card manufacturer creates activation data, i.e., a PIN code, that enables the use of the keys. The unique PIN code is computed and transferred onto the card.

### 6.4.2 Protection of activation data

The PIN code is protected so that it cannot be read or copied from the card. It is the certificate holder's responsibility to protect the use of his/her keys by taking care of his/her card and PIN code as described in the instructions for use.

### 6.4.3 Other activation data issues

It is explained to the holder of a temporary certificate that he/she has the possibility to change the original PIN code to a new one. The program for changing the PIN code is available free of charge for the cardholders at [www.fineid.fi](http://www.fineid.fi).

A temporary certificate will be locked and blocked after three incorrect PIN entry attempts. A locked PIN cannot be unblocked. Instead, the card holder will be issued a new replacement card.

## 6.5 Security requirements pertaining to the use of and access to computers

### 6.5.1 Hardware security

Only equipment suitable for their intended use is used in the certificate system.

Hardware security has been implemented according to good information administration practice in such a way that in the event of system failure, a backup system can be used without compromising the confidentiality of the system. The availability of spare parts for mission-critical components is ensured.

In service and maintenance processes, access by external personnel to the systems and facilities which are the responsibility of the service production is prevented. Maintenance visits can only be done by technical suppliers who have signed a technical supply agreement and a confidentiality agreement. A list of approved technical suppliers is maintained.

Maintenance visits can only be done under the supervision of a system administrator or another person authorised by him/her.

The certificate system hardware is under 24-hour security monitoring.

## 6.6 Certificate system life cycle management

Population Register Centre maintains a classification of importance on certificate service objects and systems, their backups, priorities and minimum maintenance levels.





VRK/TS/Keh

3.5.2018

#### 6.6.1 Supervision related to developing the system

The development and testing of the system are done in a separate test environment. Only tested, functional and approved solutions are transferred to the production system.

#### 6.6.2 Security management

Population Register Centre's information security is managed according to Population Register Centre's information security policy and the standard ISO/IEC 27001.

#### 6.7 Telecommunication network security

The security of telecommunication is implemented in such a way that the certificate system's telecommunication network is a consistent whole isolated from other telecommunication networks and has doubled critical components. Transmitted messages, their senders or recipients cannot be viewed by unauthorised parties without special measures. The network is only used for tasks related to the certificate system. Redundant network services have been disabled. The network is divided into logical sub-components with restricted connectivity between components. Sufficient authentication, access control and non-repudiation procedures are in place.

#### 6.8 Monitoring of the use of the hardware security module

The certification authority sees to it that the certification authority's private keys are protected against disclosure and unauthorised use. A backup is made of the certification authority's private keys in a manner conformant with critical information security.

The hardware security module cannot be accessed without a management card which is used to identify the person and verify his/her access privileges. The module cannot be activated without a system user's personal management card.

The presence of two administrator-level persons and their personal management cards are required to create a new user-level privilege. The module collects log data on events.



VRK/TS/Keh

3.5.2018

## 7 Certificate and revocation list profiles

### 7.1 Technical certificate data

The data content of the root certificate, certification authority certificate and certificate holder's certificates are described in the document FINEID S2. The document is available at the certification authority's website at [www.fineid.fi](http://www.fineid.fi).

### 7.2 Revocation list profile

The data content of the revocation lists published by the certification authority is described in the document FINEID S2. The document is available at the certification authority's website at [www.fineid.fi](http://www.fineid.fi).

## 8 Specification document management

### 8.1 Changing of specifications

The certification authority may change the specifications because of legislation or functional requirements. Changes to the specifications must be recorded in the certificate policy and certification practice statement documents as described below.

### 8.2 Publishing and communication

The certification authority publishes a certificate policy and a certification practice statement, available at the websites [www.vaestorekisterikeskus.fi](http://www.vaestorekisterikeskus.fi) and [www.fineid.fi](http://www.fineid.fi).

The certification authority's public specifications pertaining to the production of certificates can be obtained from the same websites.

Agreements concluded with information technology vendors on the delivery of certificates and production system descriptions and product-related specifications are confidential.

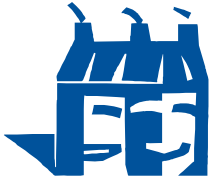
### 8.3 Certificate policy change and approval procedure

Population Register Centre approves the certificate policy and certification practice statement pertaining to temporary certificates. The documents may be amended according to Population Register Centre's internal change policy.

Population Register Centre will communicate the changes well in advance of their entry into force on its website.

Population Register Centre maintains version management of the documents and archives all certificate policy and certification practice statement documents. Typographic corrections and changes of contact details are possible with immediate effect.

1. All items of the certificate policy and certification practice statement can be amended by communicating the main upcoming changes 30 days before their entry into force.



VRK/TS/Keh

3.5.2018

2. Items that Population Register Centre does not deem to have significant effect on certificate holders and trusting parties may be amended with communication 14 days in advance.