



OID: 1.2.246.517.1.10.301

[Tarkenne]

[Numero]

[Liite]

1 (33)

13.9.2025

CERTIFICATE POLICY FOR THE ROOT CERTIFICATION AUTHORITY OF THE STATE OF FINLAND

OID: 1.2.246.517.1.10.301

OID: 1.2.246.517.1.10.351

OID: 1.2.246.517.1.10.201

13.9.2025



13.9.2025

Document management

Owner	
Prepared by	Ville Aarnio (VA), Jari Pirinen (JP)
Inspected by	
Approved by	Mikko Pitkänen

Version control

version no.	what has been done	date/person
v 1.0	Version 1.0	1.6.2021/VA
v 1.1	Added information regarding log data	1.10.2021/VA
v 1.2	Updated version and CPS links	29.9.2022/SK
v 1.3	Updated version and date. Corrected certificate hierarchy regarding temporary certificates. Added ECC hierarchy key size. Changed policy validity date in chapter 2 to a reference to the date on the cover page.	15.9.2023/JP
v 1.4	Updated version and date. Consolidated G3 and G2 root certificate hierarchy policies into the same document. Added force majeure to section 2.2.5. Minor editorial changes.	13.9.2024/JP
v 1.5	Updated version and date. Added information on revocation information services availability to section 2.6.3. Added information on trusting certificates and revocation information in case of a CA private key compromise to section 2.1.3.	13.9.2025/JP



Table of contents

1	Introduction.....	8
1.1	General points	8
1.2	Identifiers	15
1.3	The root certification authority and the range of application of CA certificates.....	16
1.3.1	Root certification authority	16
1.3.2	Registration authority	16
1.3.3	Directory service	16
1.3.4	CA certificate holder organisation	17
1.3.5	Trusting a CA certificate.....	17
1.3.6	Using a CA certificate	17
1.4	Contact details	17
1.4.1	Organisation administering the certificate policy	17
1.4.2	Contact person	17
2	General terms.....	18
2.1	Obligations.....	18
2.1.1	The obligations of the root certification authority	18
2.1.2	The obligations concerning the CA certificate holder organisation	19
2.1.3	Responsibilities of the party relying on a CA certificate	19
2.1.4	Obligations pertaining to the publishing of a CA certificate.....	20
2.2	Liabilities.....	20
2.2.1	Root certification authority's responsibilities	20
2.2.2	Registration authority's responsibilities	20
2.2.3	CA certificate holder organisation's responsibilities.....	20
2.2.4	Responsibilities of a party relying on a CA certificate	21
2.2.5	Limitations of liability	21
2.3	Financial liability.....	22
2.3.1	Root certification authority	22
2.3.2	Other parties.....	22
2.3.3	The root certification authority's financial administration	22
2.4	Interpretation and implementation.....	22
2.4.1	Applicable legislation	22
2.4.2	Settling of disputes	22
2.5	Fees	23
2.5.1	Issuing and renewing a CA certificate	23
2.5.2	Fees related to the use of a CA certificate	23



13.9.2025

2.5.3	Fees related to the revocation of a CA certificate	23
2.6	Publishing and availability of data	23
2.6.1	Publication of CA certificate data	23
2.6.2	Publication frequency	23
2.6.3	Availability of data	23
2.6.4	Repositories	24
2.7	Information security audit	24
2.7.1	Audit frequency	24
2.8	Publication of data	24
2.8.1	Information published by the root certification authority	24
2.8.2	Other principles concerning disclosure of information	24
2.9	Intellectual property rights	25
3	Identification of CA certificate applicant	25
3.1	Registration	25
3.1.1	Naming policies	25
3.1.2	Delivery of private keys to the CA certificate holder	26
3.2	Renewal of key pair	26
3.3	Making a revocation request	26
4	Operational requirements	26
4.1	Applying for a CA certificate	26
4.2	Issuing a CA certificate	27
4.3	Receiving a CA certificate	27
4.4	The validity and revocation of a CA certificate	27
4.4.1	Prerequisites for revoking a CA certificate	27
4.4.2	Publishing frequency of the revocation list	28
4.4.3	Special requirements pertaining to the exposure of the CA certificate holder's private key	28
4.5	System supervision	28
4.6	Archiving of data pertaining to CA certificates	28
4.6.1	Material stored	28
4.7	Continuity management and handling of deviations.	29
4.8	End of the root certification authority's operation	29
5	Physical, operational and staff security requirements	29
6	Technical security arrangements	29
6.1	Generation and storage of key pairs	29
6.1.1	Generating key pairs	29
6.1.2	Key lengths	30



13.9.2025

6.1.3	Intended use of keys.....	30
6.2	Protection of private key	30
6.3	Other key management issues	30
6.4	Security requirements pertaining to the use of and access to computers	31
6.5	Certificate system life cycle management	31
6.6	Telecommunication network security	31
6.7	Monitoring of the use of the hardware security module	31
7	CA certificate and revocation list profiles.....	32
7.1	Technical specifications of CA certificates	32
7.2	Revocation list profile.....	32
8	Specification document management.....	32
8.1	Modifications to specifications.....	32
8.2	Publication and communication	32
8.3	Certificate Policy modification and approval procedure	32



13.9.2025

CERTIFICATE POLICY FOR THE ROOT CERTIFICATION AUTHORITY OF THE STATE OF FINLAND

Definitions and abbreviations

Definitions

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

Asymmetric encryption: A pair consisting 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 accessed 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 electronic 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: Information security infrastructure in which security services are provided using the public key method.

Public key method: An information security service, such as electronic identification, provided by using a public and a private key, certificates and asymmetric encryption.

Root certification authority: An organisation that issues CA certificates and formulates a certificate policy describing its activities as well as a certification practice. In this certification practice, the Digital and Population Data Services Agency serves as the root certification authority.

Relying party: The party that relies on the certificate data and uses the certificate to access different security services, including authentication, confidentiality and signature certification, when the certification authority's signature associated with the certificate is a match.

OID: Object Identifier, a unique identifier. The unique identifier OID of this certification practice is part of the data content of each CA certificate issued by the root certification authority.



13.9.2025

Acronyms

ARL	Authority Revocation List
CA	Certification Authority
CP	Certificate Policy
CPS	Certification Practice Statement
CRL	Certificate Revocation List
ECC	Elliptic Curve Cryptography
FINEID	Finnish Electronic Identification
FIPS	Federal Information Processing Standard
HSM	Hardware Security Module
eID	Electronic identification of a person
HTTP	Hypertext Transfer Protocol
ISO 27001	ISO IEC 27001
LDAP	Lightweight Directory Access Control
OCSP	Online Certificate Status Protocol, an online service for checking the status of a certificate
OID	Object Identifier
PDS tion	PKI Disclosure Statement, certificate descrip-
PKI	Public Key Infrastructure
RSA	Rivest, Shamir, Adleman
SIM	Subscriber Identity Module
DPDSA	Digital and Population Data Services Agency



1 Introduction

DPDSA 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. Each document is identified by an OID. The documents are available online at <https://dvv.fi/en/certificate-policy>.

This certificate policy is applied as the root certificate authorities DVV Gov. Root CA – G3 RSA, DVV Gov. Root CA – G3 ECC and VRK Gov. Root CA – G2 issue CA certificates.

The status and tasks of the Certification Authority have been established by the Act on the Digital and Population Data Services Agency (304/2019), previously known as Population Register Centre.

1.1 General points

DPDSA offers highly secure electronic trust service and authentication certificates and associated services.

The Digital and Population Data Services Agency (DPDSA) works in the Ministry of Finance's branch of government. The DPDSA is a public authority which administers a personal data file and, under the act on the Population Information System and the certificate services of the Digital and Population data service agency (laki Digi- ja väestötietoviraston varmennepalveluista, 661/2009)", it is responsible for providing certified electronic services. As of 1 December 2010, the Digital and Population Data Services Agency also serves as the statutory certification authority for social and healthcare (act on the electronic processing of client data in social and health care (laki sosiaali- ja terveydenhuollon asiakastietojen sähköisestä käsittelystä, 159/2007), act on electronic prescriptions (laki sähköisestä lääkemääräyksestä, 61/2007). The DPDSA has provided certificate-based signature and identification devices and website certificates since 1999 and served as a signature certification authority at a level mutually accepted in Europe as of 31 March 2003. The Digital and Population Data Services Agency also provides other trust services.

The Digital and Population Data Services Agency's certificate information system and certificate services are based on the public key infrastructure (PKI). The DPDSA's certificate infrastructure consists of a certificate system, a supplier of certificate data contained in the certificate cards, a revocation list, an advisory service and a directory service. The DPDSA's activities as a certification authority include the provision of certification, directory and revocation services, registration, and the creation and individualisation of a card that contains the certificate. The DPDSA is responsible for the functioning of the certificate system as a whole, including any registration authorities and technical suppliers it may use.

The Digital and Population Data Services Agency is the root certification authority of the State of Finland and approves the certificates issued and signed by the Digital



13.9.2025

and Population Data Services Agency in accordance with the certificate policy it has published.

The Digital and Population Data Services Agency creates the root certificate of the State of Finland. The structure of trust based on the root certificate of the State of Finland is hierarchical. The Digital and Population Data Services Agency approves the certificates issued and signed by the Digital and Population Data Services Agency in accordance with the certificate policy it has published. A certification authority may be either a public or private organisation.

The DPDSA's certificate activities are based on provisions on identification and trust services laid down in 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 (Regulation).

The Digital and Population Data Services Agency's trust services meet the requirements contained not only in the eIDAS Regulation but also in standard EN 319 401 for qualified trust service providers and standard EN 319 411-1 for qualified trust service providers issuing certificates.



13.9.2025

The certificates issued by the Digital and Population Data Services Agency are trust services and means of strong electronic identification in accordance with the Act on Strong Electronic Identification and Trust Services (617/2009). The DPDSA also issues other personal and software certificates within the same reliable system of the certification authority. This document describes the principles that the root certification authority follows when issuing CA certificates to either the Digital and Population Data Services Agency or some other organisation. The root certification authority does not grant end user certificates. End user certificates are issued by certification authorities certified by the root certification authority, each of which have their own certificate policies and certification practices.

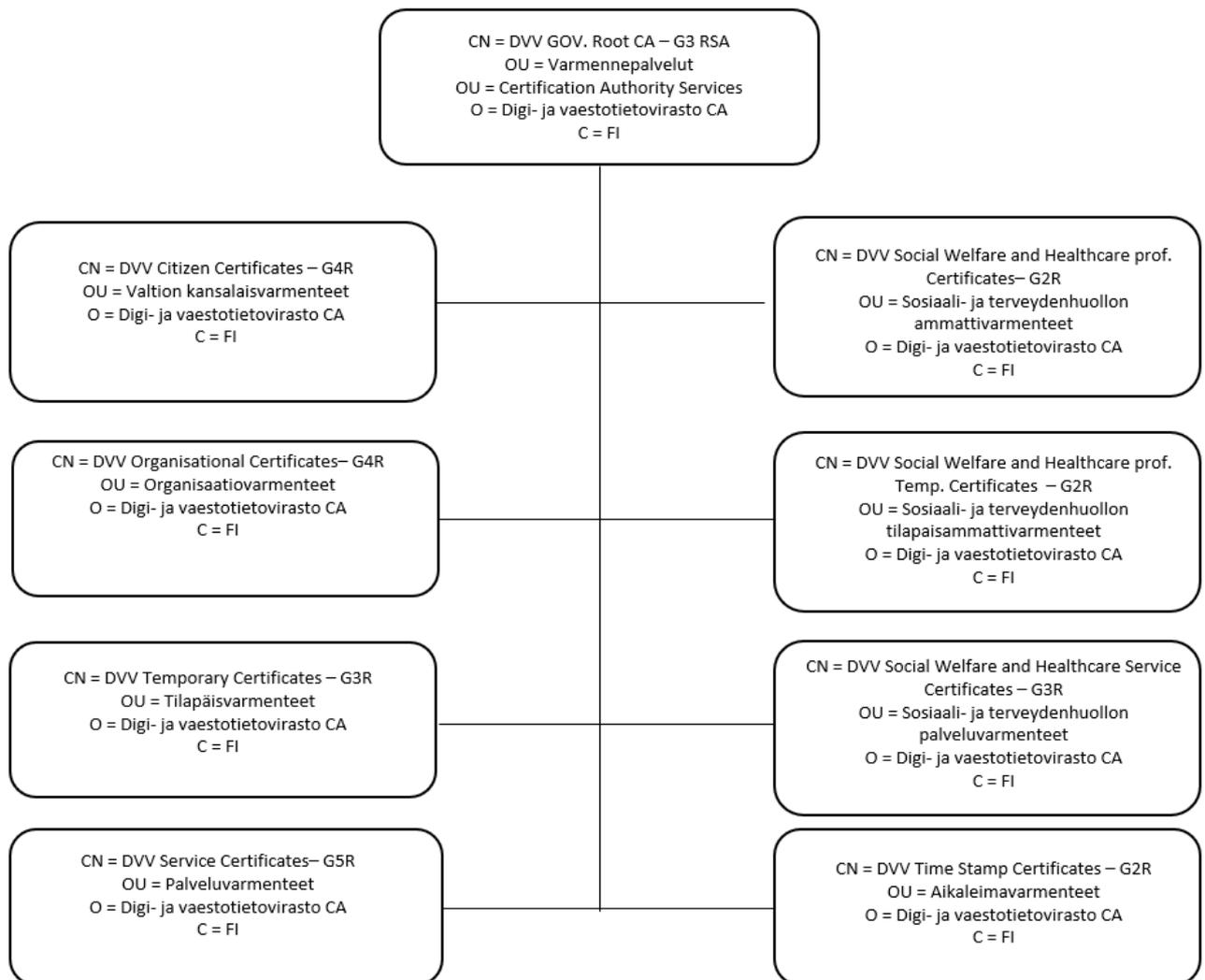


Figure 1. Certificate hierarchy DVV Gov. Root CA – G3 RSA



13.9.2025

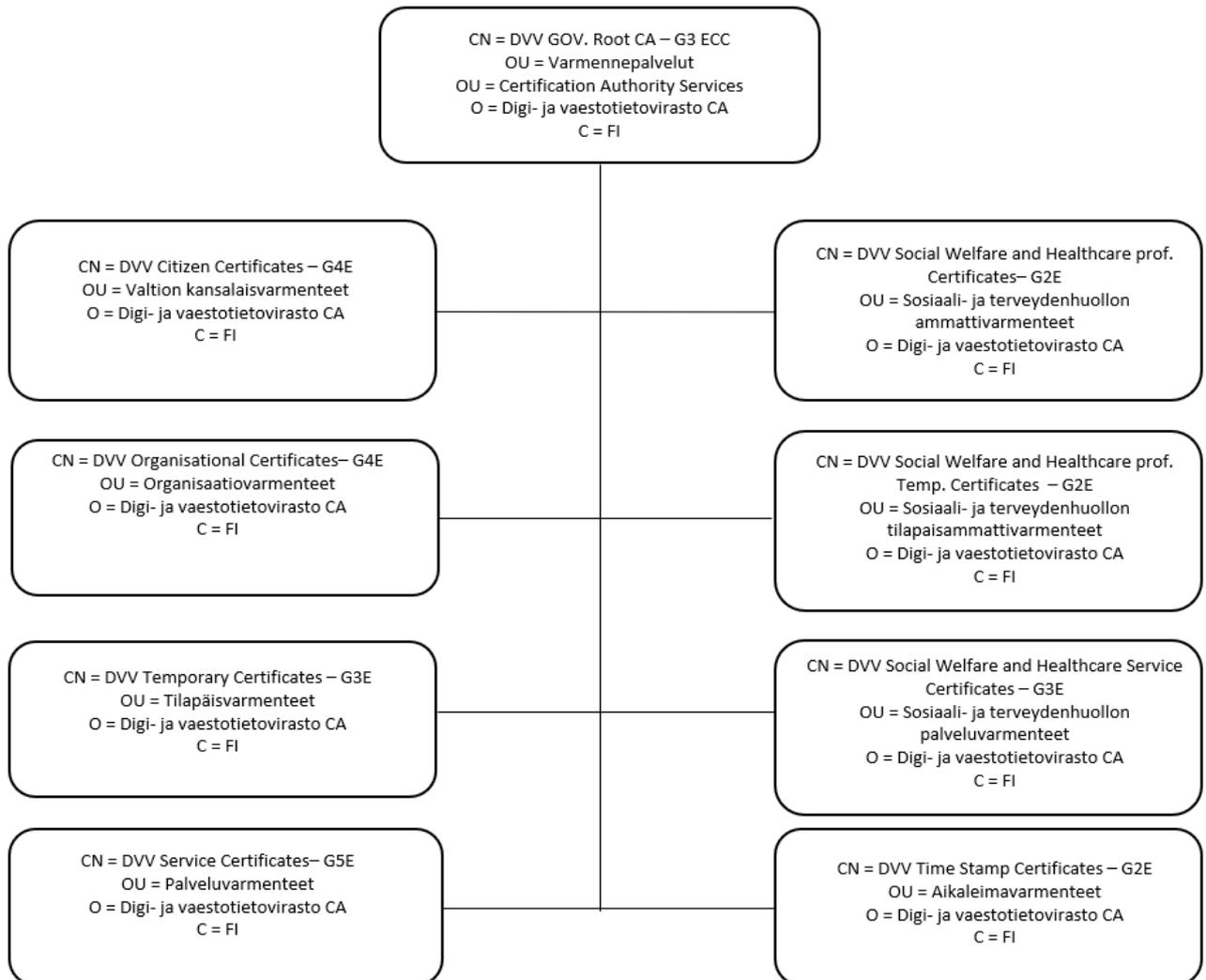


Figure 2. Certificate hierarchy DVV Gov. Root CA – G3 ECC



13.9.2025

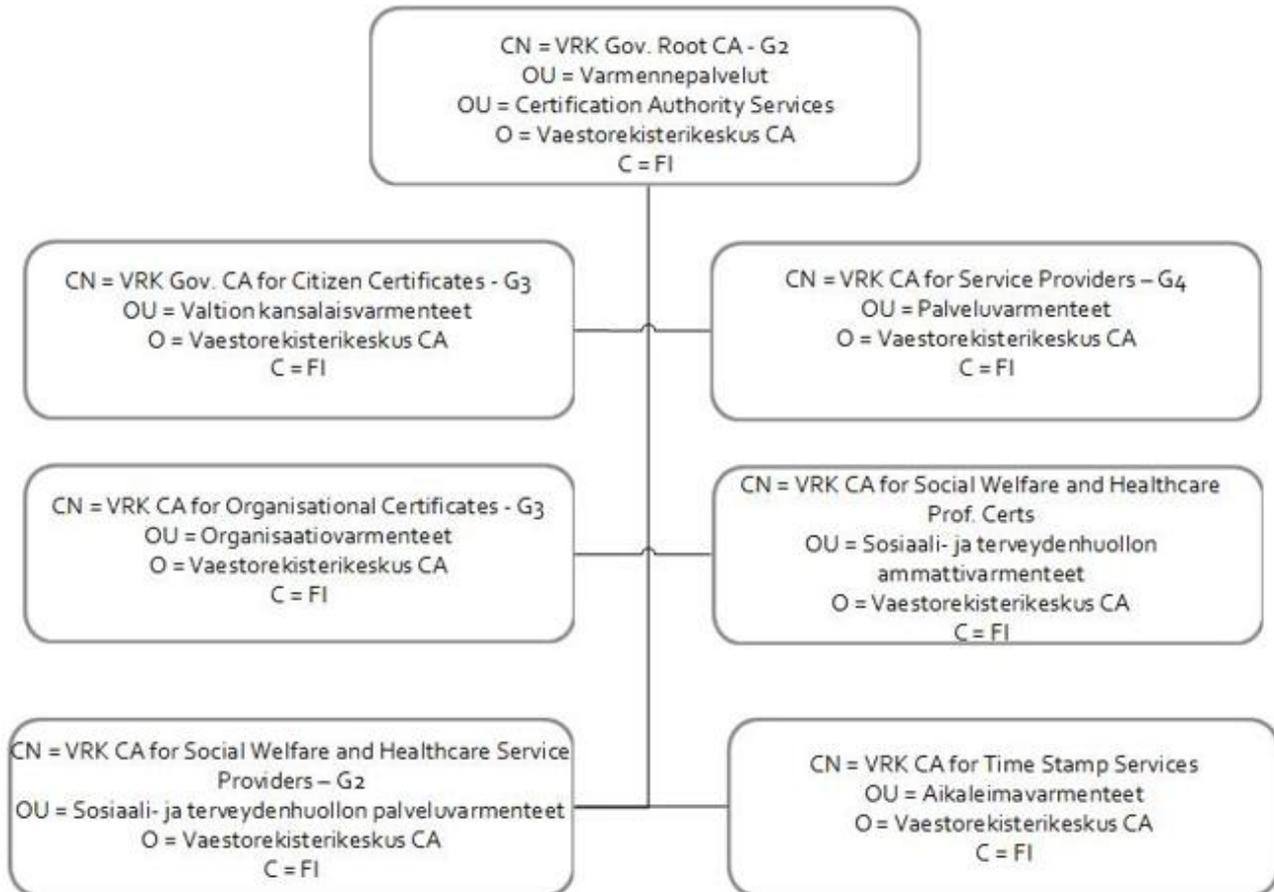


Figure 3. Certificate hierarchy VRK Gov. Root CA – G2



13.9.2025

The certificate hierarchies are as follows (Figures 1-3 above):

- The Digital and Population Data Services Agency's root certificates:
 - Root certificates
 - CN = DVV Gov. Root CA – G3 RSA
 - OID: 1.2.246.517.1.10.301
 - CN = DVV Gov. Root CA – G3 ECC
 - OID: 1.2.246.517.1.10.351
 - CN = VRK Gov. Root CA – G2
 - OID: 1.2.246.517.1.10.201
 - CA certificates:
 - The State's citizen certificates
 - CN = DVV Citizen Certificates - G4R
 - OID: 1.2.246.517.1.10.301.1
 - CN = DVV Citizen Certificates - G4E
 - OID: 1.2.246.517.1.10.351.1
 - CN = VRK Gov. CA for Citizen Certificates – G3
 - OID: 1.2.246.517.1.10.201.1
 - Organisational certificates
 - CN = DVV Organisational Certificates - G4R
 - OID: 1.2.246.517.1.10.301.2
 - CN = DVV Organisational Certificates - G4E
 - OID: 1.2.246.517.1.10.351.2
 - CN = VRK CA for Organisational Certificates – G3
 - OID: 1.2.246.517.1.10.201.2
- Service certificates
 - CN = DVV Service Certificates - G5R
 - OID: 1.2.246.517.1.10.301.4



13.9.2025

- CN = DVV Service Certificates - G5E
 - OID: 1.2.246.517.1.10.351.4
- CN = VRK CA for Service Providers – G4
 - OID: 1.2.246.517.1.10.201.4
- Certificates for social welfare and healthcare professionals
 - CN = DVV Social Welfare and Healthcare Prof. Certificates - G2R
 - OID: 1.2.246.517.1.10.301.5
 - CN = DVV Social Welfare and Healthcare Prof. Certificates - G2E
 - OID: 1.2.246.517.1.10.351.5
 - CN = VRK CA for Social Welfare and Healthcare Prof. Certs
 - OID: 1.2.246.517.1.10.201.5
- Certificates for social welfare and healthcare service providers
 - CN = DVV Social Welfare and Healthcare Service Certificates - G3R
 - OID: 1.2.246.517.1.10.301.7
 - CN = DVV Social Welfare and Healthcare Service Certificates - G3E
 - OID: 1.2.246.517.1.10.351.7
 - CN = VRK CA for Social Welfare and Healthcare Service Providers – G2
 - OID: 1.2.246.517.1.10.201.7
- Time stamp certificates
 - CN = DVV Time Stamp Certificates - G2R
 - OID: 1.2.246.517.1.10.301.8
 - CN = DVV Time Stamp Certificates - G2E
 - OID: 1.2.246.517.1.10.351.8
 - CN = VRK CA for Time Stamp Services



13.9.2025

- OID: 1.2.246.517.1.10.201.8
- Temporary certificates
 - CN = DVV Temporary Certificates - G3R
 - OID: 1.2.246.517.1.10.301.3
 - CN = DVV Temporary Certificates - G3E
 - OID: 1.2.246.517.1.10.351.3
- Temporary certificates for social welfare and healthcare professionals
 - CN = DVV Social Welfare and Healthcare Prof. Temp. Certificates - G2R
 - OID: 1.2.246.517.1.10.301.6
 - CN = DVV Social Welfare and Healthcare Prof. Temp. Certificates - G2E
 - OID: 1.2.246.517.1.10.351.6

The CA certificate includes the CA's public key, name, the intended use of the certificate as well as other information necessary for the use of the certificate. The certificate data are signed electronically by the root certification authority's private key. CA certificates under this certificate policy are based on a public key infrastructure.

A private key that matches the public key in the CA certificate is used to sign electronically all end user certificates that are issued and revocation lists that are published. The party relying on the CA certificate may verify its authenticity and integrity on the basis of the root certificate.

The Digital and Population Data Services Agency's Certificate Policy and Certification Practice documents have unique identifiers (OIDs).

The Digital and Population Data Services Agency draws up a separate certificate policy for the root certification authority as well as (a separate certificate policy or one) for each type of CA certificate issued by the root certification authority.

The Certificate Policy contains a general description of the practices, terms and conditions, responsibility allocation and other matters related to certification in the Digital and Population Data Services Agency's certification activities. The Certification Practice Statement contains a detailed description of the applicable practices.

1.2 Identifiers

The title of this certificate policy is the Certificate Policy for the Root Certification Authority of the State of Finland, and its unique identifiers are OID 1.2.246.517.1.10.301, 1.2.246.517.1.10.351 and 1.2.246.517.1.10.201.



13.9.2025

The certificate policy and the certification practice statement are available at <https://dvv.fi/en/certificate-policy>.

Log data relating to certificate issuing and revocation will be retained for at least seven (7) years after certificate validity.

1.3 The root certification authority and the range of application of CA certificates

The root certification authority provides certificate services according to the terms and conditions specified in this certificate policy and guarantees their functioning in accordance with Chapter 2.2.1 on the responsibilities of the root certification authority. The root certification authority is responsible for the functioning of the CA certificate system as a whole, including any registration authorities and technical suppliers it may use. This certificate policy has been registered by the Digital and Population Data Services Agency. The Digital and Population Data Services Agency is the root certification authority of the State of Finland. The certificates are issued by the Digital and Population Data Services Agency, an authority that maintains a personal data file and provides the suomi.fi services and certificate services. Under the act on the Population Information System and the certificate services of the Population Register Centre, its task is to provide certificate services for e-service use. The DPDSA's Certificate Service is comprised of the following functions:

1.3.1 Root certification authority

The task of the root certification authority is to:

- issue CA certificates
- ensure the accuracy of the data content of the certificates issued by it
- provide certificate and directory services in accordance with its certificate policy and certification practice statement, and certification revocation services
- revoke certificates and publish certificate revocation lists.

1.3.2 Registration authority

The root certification authority is responsible for all tasks related to the registration of CA certificates.

The registration authority identifies CA certificate applicants in accordance with the certification practice statement.

1.3.3 Directory service

The directory service is a public Internet service which can be used to retrieve all CA certificates issued by the root certification authority and the certification authority's latest revocation list. The directory service is available on the ldap.fineid.fi server in a public service.



1.3.4 CA certificate holder organisation

This certificate policy describes the root certification authority's procedure for issuing CA certificates for the use of the Digital and Population Data Services Agency or some other organisation.

The CA certificate holder organisation must comply with the root certification authority's Certificate Policy and Certification Practice Statement.

1.3.5 Trusting a CA certificate

The party relying on a CA certificate is a person or an organisation that trusts the CA certificate data. The trusting party must verify that the CA certificate is valid and not on a revocation list.

1.3.6 Using a CA certificate

In accordance with this certificate policy, the root certification authority issues CA certificates as described in the certification practice statement for the relevant CA certificate. The intended uses of a CA certificate may include signing the certificates issuing citizen certificates and signing the certificate revocation list.

The Certificate Policy and Certification Practice Statement contain requirements related to the obligations of the root certification authority, a registration authority, a CA certificate holder and a relying party as well as matters related to legislation and dispute resolution.

1.4 Contact details

1.4.1 Organisation administering the certificate policy

This certification practice statement was registered by the Digital and Population Data Services Agency. The centre is responsible for the administration and updating of this certificate policy.

Copyright under this certificate policy belongs to Digital and Population Data Services Agency.

1.4.2 Contact person

Questions regarding this Certificate Policy should be addressed to:

Digital and Population Data Services Agency

P.O. Box 123 (Lintulahdenkuja 2)

Tel. +358 295 535 001

00531 Helsinki

Fax. +358 9 876 4369

Business ID: 0245437-2

kirjaamo@dvv.fi

Digital and Population Data Services Agency (DPDSA) Certificate Services



13.9.2025

P.O. Box 123

FI-00531 Helsinki

www.dvv.fi/en

2 General terms

This certificate policy is effective as of the date indicated on the cover page. The modification and publication procedure of the policy is described in Chapter 8 of this document.

2.1 Obligations

2.1.1 The obligations of the root certification authority

- The root certification authority shall act in compliance with current legislation.
- The root certification authority performs its duties carefully, reliably and appropriately.
- The root certification authority must have the necessary technical capabilities, financial resources and ability to cover its liability for damages.
- The Digital and Population Data Services Agency may also issue a certificate for its own purposes. In this case, it complies with the same requirements as other organisations.
- The root certification authority is responsible for all areas of the certification activity, including the reliability and functioning of the services and products produced by any technical suppliers or persons who assist the root certification authority.
- The root certification authority draws up and maintains a Certificate Policy which describes at a general level the procedures for issuing, maintaining and managing CA certificates, the terms and conditions, the allocation of responsibilities, and other matters related to the use of CA certificates.
- The root certification authority draws up and maintains certification practice statements which describe how the root certification authority applies its certificate policy.
- The root certification authority complies with the certificate policy and certification practice statement requirements.
- The root certification authority makes the certificate policy and the certification practice statement publicly available.
- The root certification authority shall employ sufficient staff with the expertise, experience and competence required for producing certificate services.



13.9.2025

- The root certification authority shall use reliable systems and products protected against unauthorised use.
- The root certification authority keeps publicly available information regarding its root certificates and certificate activities, based on which the operation and reliability of the root certification authority can be assessed.
- The root certification authority complies with the certificate policy and the certification practice statement in registration.
- The root registration authority identifies the CA certificate applicant reliably as described in the certification practice statement, ensuring that the applicant's information is carefully verified.
- The root registration authority shall see to the careful handling and confidentiality of the data.

2.1.2 The obligations concerning the CA certificate holder organisation

The intended use of the CA certificate is described in the certification practice statement for the relevant CA certificate. The certificate may only be used for the intended purpose.

An organisation that holds a CA certificate is responsible for ensuring that the data provided in the certificate application is correct.

The CA certificate holder organisation must store their private key in a secure environment and make every effort to prevent its loss, disclosure to outsiders, modification or unauthorised use.

The CA certificate holder organisation must notify the root certification authority immediately if it knows or suspects that the CA certificate holder's private key has been compromised. The root certification authority will then revoke the CA certificate in question and publish it on the revocation list.

2.1.3 Responsibilities of the party relying on a CA certificate

The root certification authority shall comply with the certificate policy and certification practice statement in issuing CA certificates.

A relying party may trust the CA certificate in good faith after verifying that the CA certificate is valid and not placed on the revocation list. The trusting party must check the validity of the CA certificates before accepting them. In order to reliably verify the validity of a CA certificate, the party relying on the certificate must comply with the following procedure for revocation list checks.

If a party relying on the CA certificate downloads the revocation list from a directory, it must verify the authenticity and integrity of the revocation list by checking the list's electronic signature. In addition, the validity period of the revocation list must be checked.

If the most recent revocation list cannot be retrieved from the directory because of hardware or directory service malfunction, no certificate should be accepted if the



13.9.2025

validity period of the last retrieved revocation list has expired. All CA certificate and end user certificate approvals after the validity period are at the risk of the party trusting the CA certificate.

Certificates and revocation status information may not be valid in the case of a CA private key compromise.

2.1.4 Obligations pertaining to the publishing of a CA certificate

CA certificates are published in a generally available public directory, and revoked CA certificates on a revocation list where a party trusting the certificate must check its validity.

2.2 Liabilities

2.2.1 Root certification authority's responsibilities

The Digital and Population Data Services Agency as a root certification authority is liable for the safety of the entire certificate system. The root certification authority is liable for services it has commissioned as if for its own.

The root certification authority ensures that the CA certificate will be available from the time it is handed over for its entire period of validity, unless the CA certificate has been reported to the revocation list.

The root certification authority ensures that the CA certificate has been released according to agreement to the organisation identified as required by the CA certificate.

The root certification authority ensures that the right CA certificate is put on the revocation list and that it appears on the revocation list in the time specified in this certification practice statement.

2.2.2 Registration authority's responsibilities

The root certification authority serves as the CA certificate's registration authority. The root certification authority is liable for the damages pertaining to registration in accordance with this section.

The Digital and Population Data Services Agency may also issue a certificate for its own purposes. In this case, it complies with the same requirements as other organisations.

2.2.3 CA certificate holder organisation's responsibilities

The CA certificate holder organisation is responsible for the use of the certificate, for the legal actions taken with it and the financial consequences of the legal actions.

The CA certificate holder organisation's responsibility for the certificate use ends when it has provided the root certification authority with the information on revoking the certificate in accordance with the agreement concerning the issue of the CA certificate. To end the responsibility of the CA certificate holder organisation, the revocation request must be made immediately after giving the reason for making the request.



2.2.4 Responsibilities of a party relying on a CA certificate

A party relying on a CA certificate may not trust the correctness of a CA certificate in good faith if the validity of the certificate has not been checked against the revocation list. Accepting the CA certificate in the above cases releases the Digital and Population Data Services Agency from liability and responsibility. A party trusting a CA certificate must verify that the certificate issued corresponds to its intended use.

2.2.5 Limitations of liability

The root certification authority is not liable for damages and costs caused by the disclosure of a CA certificate holder organisation's private key unless the disclosure is the direct result of the root certification authority's actions.

The root certification authority is not liable for indirect or consequential damage caused to the CA certificate holder organisation. Neither is the root certification authority liable for indirect or consequential damages incurred by other partners of the relying party or the certificate holder organisation.

The root certification authority is not liable for damages caused by force majeure, such as: strike, fire, war, insurrection, seizure, currency restrictions, public authority acts, legislation and public official commandments, interruptions in telecommunications connections, or other such extraordinary events or circumstances beyond the control of the certification authority.

The root certification authority 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 software used by the CA certificate holder organisation or for the use of a CA certificate in contradiction to its intended use.

The root certification authority has the right to develop the certificate service. The root certification authority is not liable to compensate the CA certificate holder organisation or a relying party for any expenses caused by the root certification authority's development work.

The root certification authority has the right to interrupt the certificate service for modifications or maintenance. Modifications and maintenance concerning the revocation list will be announced in advance.

The root certification authority is not liable for errors in the online service or application based on the CA certificate or any expenses arising from them.

The CA certificate holder organisation's responsibility for certificate use ends when a representative of the organisation has provided the root certification authority with the information required to revoke the certificate. You should make the revocation request immediately after you have noticed the reason for making the request.



2.3 Financial liability

2.3.1 Root certification authority

Related to its activities, the root certification authority carried liability for damages based on cooperation agreements as well as obligations according to issued provisions.

2.3.2 Other parties

A party trusting a CA certificate may trust the correctness of the certificate if they have verified that the CA certificate has not been included in a revocation list, the validity of the CA certificate has not expired and the certificate signature has been verified. The root certification authority is responsible for the CA certificate before reporting the certificate to the revocation list in accordance with the root certification authority's commitments in this certificate policy and the certification practice statement on CA certificates.

2.3.3 The root certification authority's financial administration

The certificate services produced by the Digital and Population Data Services Agency, which acts as the root certification authority, are covered by a financial administration system and supervision as has separately been set forth. The Digital and Population Data Services Agency is an agency subject to net budgeting operating under the Ministry of Finance. Some two thirds of its expenditure are covered by the fees collected for its services. The arrangements for financial management of the Digital and Population Data Services Agency is based on the acts and decrees that govern central government finances and regulations issued by the Ministry of Finance and the State Treasury. The National Audit Office is responsible for regularly inspecting the activities of the Digital and Population Data Services Agency. In addition, its performance is reviewed from the points of view of effectiveness, economy and productivity.

2.4 Interpretation and implementation

2.4.1 Applicable legislation

The root certification authority complies with the valid Finnish legislation in its certificate service activities.

The position of Digital and Population Data Services Agency is prescribed in the act on the Digital and Population Data Services Agency (304/2019).

2.4.2 Settling of disputes

When granting certificates, the root certification authority is responsible that the CA certificates fulfil the requirements set in this certificate policy.

Any disputes shall be settled according to Finnish law. Valid legislation is adhered to in settling appeals and disputes, in administrative supervision and implementation of law.



2.5 Fees

This section specifies the fees related to the use of a CA certificate issued by the Digital and Population Data Services Agency.

2.5.1 Issuing and renewing a CA certificate

CA certificates are applied from the Digital and Population Data Services Agency. A certificate is always issued against a new application, following the identification procedure specified in the Certification Practice Statement. The price of the CA certificate is based on the valid annual fee indicated in the Digital and Population Data Services Agency's service price list.

2.5.2 Fees related to the use of a CA certificate

The root certification authority does not separately charge the CA certificate holder for the use of the certificates, the revocation service or a public directory. The price of the CA certificate is based on the valid annual fee indicated in the Digital and Population Data Services Agency's service price list.

Individual online service providers may charge a separate fee for the use of their services.

2.5.3 Fees related to the revocation of a CA certificate

Reporting a CA certificate to the revocation list is free of charge. Retrieving revocation lists from the directory and checking the validity of CA certificates against the revocation list are also free of charge.

2.6 Publishing and availability of data

2.6.1 Publication of CA certificate data

The root certification authority publishes all CA certificates and revocation lists in a public directory with open access. The Digital and Population Data Services Agency publishes the Certificate Policy, the Certification Practice Statements, the PDSs and other public documents pertaining to the production of certificate services on its website.

2.6.2 Publication frequency

The CA certificate is published in a public directory where it will remain accessible for the duration of its validity. The root certification authority publishes a revocation list that is valid for one year since its publication. This revocation list is updated once a year or as necessary with a new one.

2.6.3 Availability of data

Access to the directory and the revocation list data is open. The FINEID specifications, Certificate Policies and Certification Practice Statements published by the Digital and Population Data Services Agency can be accessed on the Centre's website. Revocation information services (OCSP and CRL) are available 24/7 and adhere to the Certificate Services 99.95% SLA requirement.



2.6.4 Repositories

The data published by the Digital and Population Data Services Agency, which acts as the root certification authority, is available on the Centre's website. Any non-public certificate system data is saved in the Digital and Population Data Services Agency's repository. A root certification authority's data is archived according to the authority's valid archiving rules.

2.7 Information security audit

2.7.1 Audit frequency

As the root certification authority, the Digital and Population Data Services Agency carries out information security audits that cover the facilities, hardware and activities of the holder organisation as appropriate. An audit is carried out at least once a year and at the start of each new contract period. In its audit procedure, the Digital and Population Data Services Agency adheres to the practices set out in the ISO 27001 information security management standard.

Audits are carried out to determine the certification authority's compliance with the agreement, taking into account the requirements of information security management standards. Certificate authorities are generally assessed on the basis of ISO 27001.

2.8 Publication of data

2.8.1 Information published by the root certification authority

The data in the certificate system will not be published or disclosed unless the disclosure of data is 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 on the Certificate Services of the Population Register Centre or the Act on Strong Electronic Identification and Trust Services or for purposes set forth in the certificate policy or CA certification practice statement.

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.

The start and expiration date/time of the validity period of a CA certificate are stored in the certificate. CA certificates revoked during their validity period are published on a publicly available revocation list.

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

The data in the certification system is only disclosed to the purposes referred to in this section.

2.8.2 Other principles concerning disclosure of information

In terms of the certification authority's reliability, it is essential that the Digital and Population Data Services Agency takes all possible measures to see to the secrecy



13.9.2025

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.

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

2.9 Intellectual property rights

The Digital and Population Data Services Agency owns all data pertaining to the certificates and documentation and the certificates issued by it in accordance with the technical terms of delivery. Digital and Population Data Services Agency has full ownership and utilisation rights to this certification practice statement and CA certificate policy.

3 Identification of CA 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 CA certificate applicants.

The rights and responsibilities of a CA certificate applicant are stated in the agreement on CA certificate provision between the root certification authority and CA certificate holder organisation.

The agreement clearly states that the CA certificate applicant accepts the creation of the CA certificate and its publication in a public directory. At the same time, the applicant accepts the rules and terms pertaining to the use of the CA certificate as well as the careful storage of the private key and the reporting of any misuse or lost keys.

A CA certificate applicant is responsible for ensuring that all information given by them to the certification authority or registration authority essential for the certificate is correct.

3.1.1 Naming policies

The root certification authorities are:

CN (Common name) = DVV Gov. Root CA – G3 RSA
OU (Organizational unit) = Varmennepalvelut
OU (Organizational unit) = Certification Authority Services
O (Organization) = Digi- ja vaestotietovirasto CA
C (Country) = FI

and

CN (Common name) = DVV Gov. Root CA – G3 ECC
OU (Organizational unit) = Varmennepalvelut



13.9.2025

OU (Organizational unit) = Certification Authority Services
O (Organization) = Digi- ja vaestotietovirasto CA
C (Country) = FI

and

CN (Common name) = VRK Gov. Root CA – G2
OU (Organizational unit) = Varmennepalvelut
OU (Organizational unit) = Certification Authority Services
O (Organization) = Vaestorekisterikeskus CA
C (Country) = FI

The CA certificate is signed by the root certification authority and placed in a public directory.

Data pertaining to the holder of a CA certificate unambiguously identifies the certificate holder organisation.

3.1.2 Delivery of private keys to the CA certificate holder

The CA certificate applicant creates a private and public key. The CA certificate applicant is obligated to store their private key in a secure environment and prevent its loss, disclosure to outsiders, modification or unauthorised use.

3.2 Renewal of key pair

When renewing CA certificates, the same procedures should be followed as when applying for a CA certificate for the first time. When a CA certificate holder renews their private key, re-registration, a new agreement and a new CA certificate are always required.

3.3 Making a revocation request

The holder of a CA certificate may have the CA certificate revoked before the expiry of its validity period.

A representative of the CA certificate holder organisation must notify the root certification authority immediately if they know or suspect that the CA certificate's private key has been compromised. The root certification authority will then revoke the relevant CA certificate. Revocation requests are primarily made by CA certificate holders if the certificate may have been misused. Revocation requests can also be made by the registration authority or the root certification authority.

4 Operational requirements

4.1 Applying for a CA certificate

The rights and responsibilities of a CA certificate applicant are stated in the application document and the agreement concluded with the organisation applying for the CA certificate. The agreement is signed by an authorised representative of the CA certificate holder organisation. The agreement states the rights and obligations of both parties. In compliance with the application document and terms and conditions



13.9.2025

of use, the applicant signs to confirm that the information provided is correct and approves the creation of the certificate and its publication in a public directory. At the same time, the applicant accepts the fact that the certificate will be reported to the revocation list if there is a possibility of it being misused.

4.2 Issuing a CA certificate

The certification authority issues the CA certificate when accepting the application for a CA certificate and signing a related supply agreement on the CA certificate.

When issuing a certificate, the certification authority is responsible for ensuring that the certificate's data content is correct at the time of certificate delivery.

4.3 Receiving a CA certificate

Once the CA certificate has been issued, it will be delivered to the customer as agreed.

4.4 The validity and revocation of a CA certificate

4.4.1 Prerequisites for revoking a CA certificate

The CA certificate holder must notify the certification authority immediately if it knows or suspects that the CA certificate's private key has been compromised. The root certification authority will then revoke the relevant CA certificate. An authorised representative of the CA certificate holder organisation has been determined in an agreement between the root certification authority and CA certificate holder organisation.

Revoked CA certificates cannot be reinstated.

The root certification authority will revoke the CA certificates it has issued if an error is detected in the data contents of the certificate or it is known that the private key of a CA certificate has been compromised or there is justified threat thereof, or if there has been failure to comply with the agreement concluded with the CA certificate holder organisation or the agreement has expired.

The root certification authority may revoke CA certificates signed with its private key if there is reason to believe that the root certification authority's private keys have become disclosed or accessed by unauthorised parties.

All CA 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 CA certificate has expired.

If the private key used by the Digital and Population Data Services Agency in issuing a CA certificate or another technical method has become exposed or otherwise unusable, the Digital and Population Data Services Agency must duly notify all CA certificate holder organisations and end users.

The root certification authority may also revoke a CA certificate for other special reasons.



13.9.2025

CA certificates are revoked immediately after receiving a revocation request and after the revocation of the CA certificate has been confirmed.

4.4.2 Publishing frequency of the revocation list

The CA certificate is published in a public directory where it will remain accessible for the duration of its validity. The certification authority publishes a revocation list that is valid for one year after its publication. This revocation list is updated once per year with a new one.

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, DPDSA may publish revocation lists at a different frequency and extended validity periods.

The obligations of a party trusting the CA certificate are described in section 2.

4.4.3 Special requirements pertaining to the exposure of the CA certificate holder's private key

It is the CA certificate holder's responsibility to protect the use of their private key by taking all measures for looking after their private key as described in the instructions for use. The CA certificate holder organisation must immediately contact the root certification authority if it suspects that the certificate may have been used in breach of the terms and conditions.

4.5 System supervision

For supervision purposes, the root certification authority stores log data on CA certificate production events, the CA certificate system's access management, the hardware configuration as well as system and application software and their modifications, backup runs and recoveries. In addition, the root certification authority supervises documents related to the activity. Any non-conformances will be reported as agreed with the partner.

4.6 Archiving of data pertaining to CA certificates

4.6.1 Material stored

The provisions of the archive act (arkistolaki, 831/1994) are applied as the general act on 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 the root certification authority's certificates, the provisions pertaining to archiving in electronic services legislation are also applied.

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

If a root certification authority's service is interrupted or terminated, the root certification authority shall notify all of its customers that the archive will continue to be



available. All archive queries should be sent to the root certification authority or some other party designated by the authority before it terminates its service.

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

4.7 Continuity management and handling of deviations.

The root certification authority has a continuity and preparedness plan that enables the continuity of the root certification operations. For a description of the root certification authority's action when dealing with deviations, see the Certification Practice Statement.

4.8 End of the root certification authority's operation

A situation where all services related to issuing, maintaining and administering root certification authority and CA certificates are permanently terminated is deemed the termination of the root certification authority. The termination of the root certification authority does not refer to a situation where the root certificate service is transferred from one organisation to another. For a description of the root certification authority's action when dealing with deviations, see the Certification Practice Statement.

5 Physical, operational and staff security requirements

An information security certificate has been granted to the root certification authority in its role as a certification authority. The Digital and Population Data Services Agency's information security solutions meet ISO 27001 requirements.

The Digital and Population Data Services Agency uses technical vendors for carrying out the information technology tasks of the root certification authority. The root certification authority is responsible, as the certification authority, for the safety and operation of certificate production in an appropriate way in all of its areas. For a detailed description of the root certification authority's action when dealing with deviations, see the Certification Practice Statement.

When an organisation other than the root certification authority issues end user certificates based on a CA certificate, the organisation also complies with its own information security policies.

6 Technical security arrangements

6.1 Generation and storage of key pairs

6.1.1 Generating key pairs

Each root certification authority's 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,



13.9.2025

the non-repeatability of the generation method, and the genuine randomness of the random number. The root certification authority will not publish the probability accuracy or method.

The root certification authority generates its private signature keys and corresponding public keys. The keys are stored in key management devices governed by the root certification authority.

6.1.2 Key lengths

The root certification authorities' private keys, which are used to sign the root certification authority's certificates, and the corresponding public key are 4096-bit RSA keys in the RSA hierarchy and 384-bit ECC keys in the ECC hierarchy.

For the lengths of the CA certificate holder's public and private keys, see the certification practice statement.

6.1.3 Intended use of keys

The key usage field in the certificates specify the intended uses of the public and private keys associated with a CA certificate.

6.2 Protection of private key

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

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

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

The CA certificate holder must store their private key in a secure environment and make every effort to prevent its loss, disclosure to outsiders, modification or unauthorised use.

The certification authority's private keys are stored in key management devices administered by the certification authority.

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

6.3 Other key management issues

The root certification authority archives all public keys it has certified.



13.9.2025

The validity period of a CA certificate is specified in the certificate provision agreement. A CA certificate can be revoked before its expiry if the terms and conditions of the agreement are not complied with or there are other specific reasons stated in this certificate practice statement.

6.4 Security requirements pertaining to the use of and access to computers

Only hardware suitable for its purpose is used in the root certification authority's certificate system.

Hardware security has been implemented according to good information management practice, ensuring 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.

The root certification authority's certificate system hardware is under 24-hour security monitoring.

6.5 Certificate system life cycle management

In its role as a root certification authority, the Digital and Population Data Services Agency maintains a classification of importance on certificate service objects and systems, their backup copies, priorities and minimum maintenance levels.

In its role as a root certification authority, the Digital and Population Data Services Agency's information security is managed according to the Digital and Population Data Services Agency's information security policy and standard ISO 27001.

6.6 Telecommunication network security

The root certification authority's telecommunications security is based on the telecommunication network operating as a joined-up entity which is isolated from other telecommunication networks in an appropriate manner, and its critical components are duplicated. Transmitted messages and their senders or recipients cannot be viewed by unauthorised parties without special measures. The network is only used for tasks related to the certification authority's certificate system. The network is divided into logical sub-components with restricted connectivity between components.

6.7 Monitoring of the use of the hardware security module

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

The module collects log data on events.



7 CA certificate and revocation list profiles

7.1 Technical specifications of CA certificates

The data content of the root certificate and CA certificate is described in the document FINEID S2. The document is available at the root certification authority's website at <https://dvv.fi/en/>.

7.2 Revocation list profile

The data content of the revocation lists published by the root certification authority is described in the document FINEID S2. The document is available at the root certification authority's website at <https://dvv.fi/en/>.

8 Specification document management

8.1 Modifications to specifications

The root certification authority may change the specifications due to legislative or operative requirements. Modifications to the specifications must be recorded in the certificate policy documents and certification practice statement documents as described below.

8.2 Publication and communication

The root certification authority publishes a certificate policy and a certification practice statement, available at the website <https://dvv.fi/en/certificate-policy>.

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

The 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 modification and approval procedure

The Digital and Population Data Services Agency approves the certificate policy and certification practice statement pertaining to root certification authority and CA certificates. The root certification authority's documents may be modified according to the Digital and Population Data Services Agency's internal change policy.

The Digital and Population Data Services Agency communicates on the modifications well in advance of their entry into force on its website.

The Digital and Population Data Services Agency maintains version management of the documents and archives all Certificate Policy and Certification Practice Statement documents. Typographic corrections and changes of contact details may be made with immediate effect.



13.9.2025

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