

Certificate of Conformity

The Certification Body datenschutz cert GmbH confirms that
the Trust Service Provider

Digi- ja väestötietovirasto

Lintulahdenkuja 2
PL 123, 00531 Helsinki

providing the trust service

DVV Qualified Trust Services

complies with 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

Detailed information is given in the annex to this Certificate consisting of 19 pages.
This Certificate is valid only together with the Conformity Assessment Report.

Certificate ID: DSC.1249.07.2023



Certificate issued on: 21.07.2023 Certificate expires on: 20.07.2025



Sönke Seese
Certification Body
Dr. Maseberg

Annex to Certificate ID: DSC.1249.07.2023

Certification Program

The Certification Body of datenschutz cert GmbH is accredited by the „DAkKS Deutsche Akkreditierungsstelle GmbH“ for certification of products in the fields of IT security und safety technology according to DIN EN ISO/IEC 17065. The Certification Body conducts certification processes on the basis of the following accredited certification program:

- datenschutz cert GmbH, Zertifizierungsschema „eIDAS“, Version 1.3, 05.04.2024 (in German)

Conformity Assessment Report

- datenschutz cert GmbH, Conformity Assessment Report, Digi- ja väestötietovirasto (DVV), DVV Qualified Trust Service, DSC.1249, 05.02.2024.

Conformity assessment requirements

The Conformity assessment requirements are defined in eIDAS:

- Regulation (EU) No. 910/2014 of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC

for the trust service:

- DVV Qualified Trust Services

Trust service assessed

The trust service assessed is characterized by the certificate information as follows:

Root Certificate VRK Gov. Root CA – G2

Issuer: CN = VRK Gov. Root CA - G2, OU = Varmennepalvelut, OU = Certification Authority Services, O = Vaestorekisterikeskus CA, C = FI

Serial No.: 03 0d 40 (hex)

Valid from: 14. December 2017 09:50:31

Valid to: 13. December 2038 09:50:31

Certification Authority: CN = VRK Gov. Root CA - G2, OU = Varmennepalvelut, OU = Certification Authority Services, O = Vaestorekisterikeskus CA, C = FI

Information on Algorithm: sha512RSA

Public key (ASN.1-notation): 4096 bits

30 82 02 0a 02 82 02 01 00 bf d6 00 4a 89 0e 2f 23 3b 72 7f 73 20 65 a0 5f 16 c5
7b 5e 5c 06 f9 66 73 20 82 f5 62 96 17 94 51 fe 9b 35 e8 f2 0e 5f 7f 21 95 1c 62 c0

e4 f9 82 78 5c ef 55 c0 c7 fc od 79 f3 b6 4c 82 36 oa bo 4b fc 2d 61 a6 ob 88 b8 4f
b9 05 ae 06 cc 09 d3 7b 4a od 68 89 13 45 00 a3 9d 5c e6 7e a5 1e e7 06 2f fo 6b
45 a4 a2 d4 9b 87 ca 98 65 60 eb 5a cc a2 95 ec 93 5b 4a a5 76 7d 5f 75 d2 2d 95
47 7a 69 b1 73 88 ac 65 24 79 20 7f 88 86 45 64 12 e8 14 c7 38 90 97 1c f1 41 f7 b8
eo 37 ff b6 b5 cc 31 5a cc 28 ff 84 a8 53 56 58 72 dd 63 c0 3b 47 1d 8c 56 43 de 54
c7 08 cc 3f 7a e8 c2 03 ca 34 bc 85 95 e7 c3 d1 20 d2 f4 4a 2b f1 e9 ef 7d 7a 5b b5
04 60 52 04 78 9d e8 e7 29 43 6e 3b 01 00 d8 2a cc 06 26 02 6a 84 3f f3 08 aa 3e
14 fd f7 f7 8e b9 80 30 42 a5 05 7c cd f3 a1 84 22 78 11 41 09 d5 8c 80 ob 4e 58 8d
98 d4 73 3d 15 f7 6d 99 3d e4 84 f3 47 3c 2f 6b 99 14 84 21 3b 9c 56 65 52 f5 8f ab
od a9 63 82 cc 39 52 b1 ea a7 59 e3 a3 c0 of 79 3e e8 95 3e 46 ac b9 dd b8 57 85
f6 97 ff 9e b3 08 e6 37 56 de fc a6 33 38 8d bf od 6b 96 a6 8b e9 70 4a b7 67 44
a8 89 2e 90 e6 97 8b ee 6f 9c ac 73 45 fb 69 38 fd 56 f8 05 eb a3 11 cc c8 f2 f2 c4
bo f8 d7 19 f8 06 e6 96 60 7d d4 e4 b6 f3 d4 9b 19 5f df 31 83 ce b8 eo 75 96 29
6d 3c 2f e8 59 c0 4a 9f ba ec fa 93 f6 91 6f 2d 24 14 92 2b be ad 9d 08 58 35 e1 61
2a 13 df d8 do 7c f1 56 f3 6b 74 2d c4 e3 ee 80 61 2c ab oa 5d 55 49 4b 61 af 95 4e
b1 b7 52 d6 99 d3 ef 24 do 1c 06 48 9a 1b c2 17 9c b2 e6 8b fd 2d 72 b1 97 3c 18 49
51 56 7c 55 e4 12 be 50 89 1d 69 28 19 48 c3 da 22 81 a9 eo eo 05 aa bd 02 03 01
00 01

Thumbprint of the certificate (SHA256):

34ff2a4409dc1383e9f8966e8adfe5719eba373fdoad5e2f49f90ee07cf5d4c1

Root Certificate DVV Gov. Root CA – G3 RSA

Issuer: CN = DVV Gov. Root CA - G3 RSA, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 017940cbf49afec66649c9f07905db (hex)

Valid from: 6. May 2021 10:30:42

Valid to: 5. May 2042 10:30:42

Certification Authority: CN = DVV Gov. Root CA - G3 RSA, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha512RSA

Public key (ASN.1-notation): 4096 bits

30 82 02 0a 02 82 02 01 00 c1 9f 02 80 81 2d 89 84 61 66 4b 1b 3b a3 04 e1 51 9a
1d 20 08 8a 16 60 a4 f3 3c 4c ea 1b 90 3c 61 29 2c ff 1e 4a 29 df 44 2f a7 67 95 e7
c4 77 92 86 ob 5a ad 3e 25 67 8e bc f8 c2 fo 2b 9f b1 95 90 5d 11 5c a7 93 5e 49 31
8b 52 12 ad fe bo 1e e7 e1 31 63 c4 25 74 e2 ac 39 e5 09 56 36 3a 62 f8 08 6a 69 71
41 4a eo 8f bb 78 f6 78 eb dd 12 69 f4 9e 48 3b 87 c7 04 ea ff 3b 88 5f 7f 44 dc 2c

45 34 da 6a ec 36 84 04 7b 1f 4c 01 1a ag 62 1f 9c 77 03 d4 9b d9 88 bc 46 d1 eb cd
51 1f 2a ed 3d 4d 06 07 11 bf c1 73 36 32 e9 c1 1a 82 de 43 46 ad 82 96 ee eo a8 ag
3e 6e b9 f2 2b ob 64 f3 d1 93 4d 7b 8e fo c5 16 7b cd 13 04 85 gf b3 d5 ef 6d d7 13
b9 2f 7e 1b dd 17 9b 6b 84 d4 9c f2 66 7b 75 92 d7 91 42 03 1e e9 ag f9 b6 10 03 e6
dd 26 2f 46 ef a2 45 33 53 9d 97 be 55 7b ae 22 85 84 62 e6 38 21 09 15 a3 25 07 57
62 8d d7 3d f3 oc dc 64 2a 26 83 6a 07 2f c3 09 5f 4b f3 fo 4e d8 ea 36 5f 66 35 9d
e2 2d f8 3b ao ec d3 ob 25 82 58 cf bf 02 03 18 e3 70 ba 64 ba aa 2b 86 of 3a f7 ba
e8 55 9f e6 e8 fb 72 94 ae b9 22 99 ed a1 58 ca 77 07 ba 55 eb 79 a8 ba 73 96 43
80 ac d3 98 e1 73 5e 56 77 94 ae 41 17 59 15 6c 80 4b cf 5a bo 41 de ob ac c6 16 2d
c7 e3 39 d8 c5 ac 39 ce 3f 9a df b7 d6 4f 7e be 8a 9f c2 29 16 4f 05 ca oo c9 28 89
8c 91 19 1a 05 cd 75 5b oa 37 27 eo 22 52 58 2d 58 3a b4 62 f3 09 3f bc cc eo 63 3d
7a e9 f1 ed ao bc fc e9 f9 e1 27 af 45 4b d2 44 34 7a ao 16 48 72 33 ag 5d 27 4f 15
da 4d 8e 1d 9e 56 b1 64 57 90 a8 f9 dc 48 ed 66 05 40 f4 54 1b d6 81 e2 7a d1 73
36 07 8c 3b f3 da da 83 5b 5f oc 78 76 a3 fd 9d 15 25 de 87 02 03 01 00 01

Thumbprint of the certificate (SHA256):

D3ED3FC4oAD26B52Eoo1E1E18F4B9449529DEB75A81D5EB68oD7B62DB23BA96
D

Root Certificate DVV Gov. Root CA – G3 ECC

Issuer: CN = DVV Gov. Root CA - G3 ECC, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 017940a7b5da7d901ca94bf25aaeae (hex)

Valid from: 6. May 2021 09:51:30

Valid to: 5. May 2042 09:51:30

Certification Authority: CN = DVV Gov. Root CA - G3 ECC, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha384ECDSA

Public key (ASN.1-notation): 384 bits

04 b3 2d ca 3f 8a ae 92 24 0a 92 ca 05 e6 e2 6b od 7d cf 2f 89 ab a7 5a 55 f7 06
a6 60 5e a3 2e af 48 6d dd oe c4 33 2a ca ab 54 99 7a 88 8a cf b3 2f 13 28 d6 dd
eb b3 a8 d6 59 ca e7 c5 1a oe dc 8d 8a ac bo 6b 6d 51 86 ef 94 4a fa e8 be 4b ed
56 71 fo 1d ea 4b b5 f5 63 59 12 b8 af 89 b1 30

Thumbprint of the certificate (SHA256):

5546A52504FBA74F61FFD4890067529ADE3B9C9Do7E502592831CCDA9B369F
D3

Citizen Qualified Certificates – G3

Issuer: CN = VRK Gov. Root CA - G2, OU = Varmennepalvelut, OU = Certification Authority Services, O = Vaestorekisterikeskus CA, C = FI

Serial No.: 030d43 (hex)

Valid from: 3. May 2018 11:28:59

Valid to: 2. May 2038 11:28:59

Certification Authority: CN = VRK Gov. CA for Citizen Certificates - G3, OU = Valtion kansalaisvarmenteet, O = Vaestorekisterikeskus CA, C = FI

Information on Algorithm: sha512RSA

Public key (ASN.1-notation): 4096 bits

```
30 82 02 0a 02 82 02 01 00 b3 1f a5 af e5 88 52 44 98 62 50 cf 86 4b 39 a5 c7 81
8a 16 7e 59 1c ad 76 c9 58 1b d2 59 29 8d 39 9d 3e 85 f7 2c 8b 40 co do ec 3e 38 3c
72 bb 85 38 3a 9c f2 22 78 63 72 98 cb c3 62 cc de c5 25 11 ff 5d bb 73 8c 02 84 27 18
2d 73 35 5b b8 22 cf fe 85 ed ff 46 5a 8d 42 a5 82 51 2f d1 17 d7 c3 be 7b 10 34 17 6a
b4 83 59 59 f6 bb 79 fb f1 74 77 12 a7 88 d8 78 36 d7 94 a7 co 71 4d a4 e8 8a c1 fe
d8 85 10 55 b2 41 65 27 38 3f 28 cb 34 ab cb 21 c5 ca c6 9d oe 4e 67 bc 27 7b 54 6c
32 a4 00 27 7f ee b7 ee 3c 1e 72 9c cf b1 cd f5 c4 34 93 72 ab aa eo 8e bd c3 d4 70
28 91 90 a4 88 58 74 fo 29 38 e4 67 09 25 fb d2 c6 3c ac ao 95 19 39 1e fa bb 8a 23
1e 44 46 ea 80 cc dc b6 a2 41 50 9a cc a6 6c c1 13 cd 8f 8d d3 97 ae f5 3c 7b df 39
1e 53 e5 2b b5 ca 72 10 34 38 ee 9f 59 f5 a3 b3 c1 34 b5 09 47 04 ed 4d e8 8f 2a 8b
94 70 99 25 56 9e 75 1d 2f a3 f3 4f 2c 73 db 90 d1 c1 99 90 3d 80 d1 of d1 dd 41 cf
4e cf 56 76 08 do 5e 1a 3c a6 ao cf 4d 82 3c 8f bo 42 64 f3 co 4c 72 2b 06 42 75 co
a7 5a 41 af af de 36 2e a1 19 b4 bd 47 b3 dd e4 70 12 c9 be 9f 69 00 e7 4e 4b of 57
44 cd f2 1c 62 d6 5e 3a fc 2d 36 66 e1 ca bd 68 2e d4 08 50 84 55 77 d2 6f 95 37 6d
oa 1b 5f 3e 1f 13 63 c7 cd 5f c8 d6 9f 76 36 56 bo f5 82 e9 9f f5 16 2b 6e cc d8 8e bb
45 00 70 18 52 fc 14 28 80 98 c3 78 9e d6 ff b1 2d 65 3f 16 cd 7f 4e 6e 45 92 e4 08
af d4 2f b6 oe e7 fe 99 03 7b 88 84 57 e8 5e b1 75 02 oa 39 72 5a 22 2d 4c d4 28 aa
05 87 a6 1b 9b 28 7a 05 e6 5a b7 a9 e5 b9 5a fa 6e ce c2 ce ba 35 4b 07 03 1e 15 53
3a ad 77 16 24 1a 9d 29 4c ce c5 af 78 od d7 02 03 01 00 01
```

SHA256 thumbprint:

```
39A835B14B6B6313F778371C79CB434DD518C8FD325B749D9BE669DFF20384E8
```

Citizen Qualified Certificates – G4R

Issuer: CN = DVV Gov. Root CA - G3 RSA, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 0179a35977cc9256b26b7e9318a576 (hex)

Valid from: 25. May 2021 13:14:42

Valid to: 20. May 2041 13:44:42

Certification Authority: CN = DVV Citizen Certificates - G4R, OU = Valtion kansalaisvarmenteet, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha512RSA

Public key (ASN.1-notation): 4096 bits

```
30 82 02 0a 02 82 02 01 00 ac 20 30 bb a0 50 2f 19 ea 82 fd 9b 49 cb 1f 0a 78 0c
d5 2d bf 90 b4 d8 2b eb 14 f2 b2 99 bd 65 ad cf e3 5b 10 27 54 a0 30 3b 91 a5 5c 76
2d e3 24 a8 ed fo fc bb 1e 96 dd 7b 8b 42 a0 f2 eo 50 06 a3 f8 20 bf 57 62 66 75
ee 85 9f 00 82 c9 86 f4 ad c5 f3 fe bd 83 64 40 fe 8f 23 a7 2a 37 ce 3d d7 3f 53 2e
6d eo f9 05 81 2a f5 b1 38 a6 a3 76 02 26 52 9f 58 46 81 4d 33 6d c7 oc ag d3 77 da
62 d5 of be 08 db co 8a 89 41 de 77 8d ag c4 e7 fe b7 73 60 77 64 ba b4 92 f5 50
70 f9 95 27 b2 61 oc a7 28 cd 6c 86 e3 b9 e2 eb e3 4a 9a e2 b4 bd 8a 8a 35 a0 f1 cf
9d 8f 87 35 5e 46 21 91 32 88 4e eo 20 oc do c2 e2 22 ff 97 bf db ag 45 cd 3f od 7f
02 56 e6 6f 1e 48 cd ff ce e9 7b 62 4d 3b 93 b2 10 d5 4c 73 87 85 30 bd e4 95 a7 f1
4c bb ob ba 8a 8a c4 45 68 27 cb c5 e4 38 of 46 e2 f1 75 60 29 35 a0 77 54 d7 8f 86
24 1f 92 a8 24 3e a1 0a f1 29 f1 d2 co 08 17 38 d4 46 25 14 1c 47 65 57 1c 73 b2 5c e6
eb 14 22 df e4 7a 35 92 ob 48 83 18 a7 12 37 5a b8 a7 4b 6b 70 f7 f9 d9 82 71 5a 9a
87 0a 43 90 cd od 99 6d c1 52 bd 2f 71 f6 d2 93 cd b7 ce 98 bd 82 08 df 15 98 67 14
of 73 38 d9 4d 94 7e fb 53 5b 2d b8 c2 f8 e7 fb d1 cf 54 33 1e 45 e8 b9 ca 4e co 68
ce 81 6a 2b b5 61 6b e2 72 44 dd 06 b1 c3 1d 27 b6 93 a1 cf 4b 56 95 2c eo 62 ed b6
8e 58 e5 aa 08 32 96 b4 cf e8 81 5e 7a b3 1c d2 48 8c 04 od 57 64 ad 14 23 3b 61 c7
2b 55 31 9b 58 83 32 76 c4 fa db 71 92 d6 b2 75 3b 84 a0 57 3a f2 04 4f 2e be 76 66
ce b8 85 9d od 59 dd 05 dc 67 60 6f e1 80 6a d3 ca ac be 83 c4 6e b3 45 a2 d5 fb
9f fo 3e b1 22 48 a2 c9 17 oc dd 1b ac 2d c2 bb 65 5b fa 5b 02 03 01 00 01
```

SHA256 thumbprint:

2176C05E69EE24946A140D13F9EFA222B3F1E768E1E2A67B313969CC03B82064

Citizen Qualified Certificates – G4E

Issuer: CN = DVV Gov. Root CA - G3 ECC, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 0179a35efb50ba611d7e96320b2aa3 (hex)

Valid from: 25. May 2021 13:21:23

Valid to: 20. May 2041 13:51:42

Certification Authority: CN = DVV Citizen Certificates - G4E, OU = Valtion kansalaisvarmenteet, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha384ECDSA

Public key (ASN.1-notation): ECDSA_P384, 384 bits

```
04 81 28 90 7f 81 39 af 78 98 81 4d f3 5a 98 a6 76 97 76 8a ac 6e 8b 3a 2c 0b 17 c7
c7 ad ba 77 9a 2e e6 ec od 4f 05 6e 50 94 f7 c3 25 87 71 96 78 8d 6b ca 03 74 d5 39
79 41 f3 30 a9 65 eo 28 cf b5 84 15 4c a6 1f 47 5e ce 84 51 14 b2 8b oe 4c eb 1d 7e
do b5 be e5 53 6a ae 2e 1f 75 bf eb 84
```

SHA256 thumbprint:

AAD1BEAC4696102A88BF9D518D64F8B014F78F9B152579C959998313197924D7

Organization Qualified Certificates – G3

Issuer: CN = VRK Gov. Root CA - G2, OU = Varmennepalvelut, OU = Certification Authority Services, O = Vaestorekisterikeskus CA, C = FI

Serial No.: 03 od 44 (hex)

Valid from: 3. May 2018 12:12:46

Valid to: 2. May 2038 12:12:46

Certification Authority: CN = VRK CA for Organisational Certificates - G3, OU = Organisaatiovarmenteet, O = Vaestorekisterikeskus CA, C = FI

Information on Algorithm: sha512RSA

Public key (ASN.1-notation): 4096 bits

```
30 82 02 0a 02 82 02 01 00 8a 68 7b 43 9d 96 c3 8b 59 c2 f5 f9 e2 49 64 b2 39 f1
b9 28 60 e3 e7 d3 a4 65 be b3 08 do fi 8b do fe dc oc 62 2c da 75 dd 2a e8 61 6b
48 b7 eb 9b 12 43 e6 e2 bo e2 oa bb 36 c7 f2 ee f3 f5 b6 1b e4 49 3b o2 f4 8e a1 fc
ad 44 fa 9b 41 d5 22 19 19 8e d6 5d 94 c1 e3 13 33 d5 86 4d c5 57 dd 5e 72 17 oa o5
1a oe a2 f2 ca 95 fd 5d o7 bo 10 8f df 4f 21 cc ao 57 9d fa 52 bo 98 72 61 3c 36 do
db 8a cd d3 o3 4b 48 cd 97 4d 22 68 oa 4a 7b 67 3b 81 9f 2f 99 e1 2e bo e2 40 c9
5f 9d ce ca 77 4e ec 26 28 4b ed 20 31 a5 e1 co 40 db de 35 ec 45 38 3f 51 93 be bf
25 64 ba b3 4e d9 e4 c7 33 a5 ao c7 ed 36 53 ec 80 56 ee 28 oc 47 e1 d7 14 o8 93 48
ff 37 56 56 2b 48 70 do 53 98 bo e7 d1 1d 61 e4 c2 1c 2f c6 f1 fc of o2 4e 25 73 oc 80
31 57 o5 86 e4 24 cf 58 2d 4b 6e e4 a2 94 6d 3e 49 5d 5b 42 71 c6 60 22 74 cf 48 8f
c9 o4 78 82 58 of oo 48 54 24 o5 f4 ab f9 f7 1d 4b 2f 62 52 6a d2 c2 45 e7 c5 51 13
97 91 39 d6 62 32 17 bf 83 17 65 36 2b ae a2 f7 47 a4 77 ef 4d d4 3c ba ab 41 7b 59
a6 34 39 24 5b 9d 9c 65 6a 6f e8 7c 8c b1 6b c7 ad d2 31 37 oe f4 65 17 fd 4c f9 b5
cc a3 3a 48 c7 ad 17 e7 29 4a 8c 3a cb 3d 27 b3 21 93 64 do c5 ce 30 68 2a a4 e7 66
c9 36 2c 28 70 c3 dc ed d6 c4 ba df ed 5e 59 a9 f2 1c 34 7b a9 b1 c8 fd 26 9e ba 88
aa 3b 40 ad of ce fa 73 72 65 87 36 46 cf 9d ad d4 7e fd 42 c5 2e 44 87 8a o7 55 29
7d 8c 35 ef 72 ab 99 2e ee o2 ff 68 b6 82 aa e6 ce 72 b7 oc 74 59 ce be 4c of c3 o1
28 db 37 ao d6 de 67 9b c4 31 62 75 1a 84 3e fe ca 23 30 3b od 5f 1e df oc 53 5d f9
13 97 24 a2 cd 4f bc a5 6c 5d 57 55 36 4b 52 65 fa ea ad o2 o3 o1 oo o1
```

SHA256 thumbprint:

```
9CoB9EBEA9559oDoFAFE4A46C62E49DDoBA6CCoA8oF89o19A23Do37E1A4C1
B5B
```

Organization Qualified Certificates – G4R

Issuer: CN = DVV Gov. Root CA - G3 RSA, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 0179a3638f762ca038fb0fdf66a89d (hex)

Valid from: 25. May 2021 13:26:35

Valid to: 20. Mai 2041 13:26:35

Certification Authority: CN = DVV Organisational Certificates - G4R, OU = Organisaatiovarmenteet, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha512RSA

Public key (ASN.1-notation): 4096 bits

```
30 82 02 0a 02 82 02 01 00 c4 a2 0c 11 59 dc c7 ea 09 bb do 2c 3c 6b b7 25 9d fo
d1 4e d1 c6 78 3f 59 eo 67 51 f6 3c d8 6f 79 5f 31 3e 2c 20 fc ao 6a a6 ed e6 72 44
83 9a 7b f6 94 88 e7 6e e3 19 7b 7d ag 7f 20 73 e4 91 87 f9 c6 d3 c9 98 bd b5 7c 41
bc 99 74 f1 13 28 7f c3 ad 13 af a6 76 b8 84 a2 c3 e4 42 47 f1 6c 78 86 8e c5 80 94
a1 04 40 14 e6 ef e7 7b 8f 97 97 fc 85 1e 42 71 9e e8 38 e9 58 92 69 b3 85 2a 4d 8c
03 12 e1 ad bf b2 9f 52 5b 53 do dc 02 cb 88 f5 07 82 16 d6 ce 90 b9 22 1b 70 06 c8
06 28 ce c7 cf ad 3e 9a f2 b9 bc fe 7f ce 99 59 fd f4 cb 08 39 bc 07 82 42 of d1 53
c1 ea f5 09 31 fb ag 43 27 d4 79 50 7d b7 6b cb 3e 77 fa e1 73 29 13 2a 34 e9 5d 3b
37 eb 77 1f e6 42 b6 37 de 6a 14 79 cd 28 3c ao 8f 92 e8 23 5f ob d1 f1 fd 43 07 4d f1
9f 2b 31 00 ee 90 8e fo 73 b6 18 be 1b eo oc 5a b1 1d 30 21 87 51 2e ca c7 f9 ab 42
40 bf d5 bf be d5 69 f7 56 92 bc d1 a3 fo c5 45 a1 30 2b b9 fo 76 f4 08 20 05 cd ae
89 24 84 a2 79 4b c4 76 2b 3c 12 94 51 18 bb dc 12 65 20 45 46 a4 7b c7 5e 25 1b 06
c5 59 f5 15 6b 64 1f c7 32 62 68 ed 2d a7 34 ae 4e bo ee 57 45 8b f3 57 9a 67 7f d8
be e3 28 65 d5 f4 f9 42 f9 da 94 4a fo 73 ef 4d e7 56 20 8e 3a 57 66 7c 4b 33 a5 3c
13 63 36 3e 77 46 9b b9 68 a7 df f1 f7 75 b9 65 87 43 aa 39 83 b9 f1 26 89 4d 7f 64
34 aa cc 22 8b 87 d4 8c 1e d6 ed c1 e2 c5 f2 91 98 df of 92 a6 f7 cc 98 20 62 54 c6
f6 ob ba ce 7b 65 ec ea oc a8 b3 b3 13 14 1a a7 25 d3 5d 9b e9 40 65 oe ec 4b e5 56
do 72 97 dd 8b 20 65 49 a6 56 ed 9a e8 89 a2 12 32 3b ec 5d 98 78 1a 3c 87 2b 19
d1 1d 6e 23 59 dc cc ef 78 c2 a8 cc ao 4c 31 a8 54 b9 02 03 01 00 01
```

SHA256 thumbprint:

```
DFC3E965176F883A9CF0F68CE-
AEEAB663EDFD8E79DE3294373C28A856984006F
```

Organization Qualified Certificates – G4E

Issuer: CN = DVV Gov. Root CA - G3 ECC, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 0179a3670fb3ccc2e867398a0103ae (hex)

Valid from: 25. May 2021 13:30:38

Valid to: 20. May 2041 14:00:38

Certification Authority: CN = DVV Organisational Certificates - G4E, OU = Organisaatiovarmenteet, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha384ECDSA

Public key (ASN.1-notation): ECDSA_P384, 384 bits

```
04 4d 62 ec 9e 17 64 5d ba 74 e3 6d 17 33 3c 20 67 5b 29 2e 6f 88 36 4f 77 e9 c8 b6
4a 5c 76 d5 7d 3b e1 7c 9b 2b 69 1b 2a 4c ac 3d eo 00 15 ef 15 47 f6 b3 64 9b 49 56
74 91 91 16 51 03 45 b4 of do 7b cf 23 fb bc ef 41 f6 bf 11 bc 14 od 51 65 ad 9d c3 1a
40 1e 51 29 9c 23 64 9f 41 a3 8a 33
```


SHA256 thumbprint:

8FDBDCCB5820F1C79EF8BCE190E2B3CD2CC3DoB6BD8311B1F75FBD48BBC23oD
4

Qualified Certificates for Service Providers – G4

Issuer: CN = VRK Gov. Root CA - G2, OU = Varmennepalvelut, OU = Certification Authority Services, O = Vaestorekisterikeskus CA, C = FI

Serial No.: 03 od 45 (hex)

Valid from: 3. May 2018 12:19:19

Valid to: 2. May 2038 12:19:19

Certification Authority: CN = VRK CA for Service Providers - G4, OU = Palveluvarmenteet, O = Vaestorekisterikeskus CA, C = FI

Information on Algorithm: sha512RSA

Public key (ASN.1-notation): 4096 bits

30 82 02 0a 02 82 02 01 00 cb e6 be 06 a8 12 86 a9 a2 dc c1 e9 db 10 46 71 51 56
97 88 cf 93 od f9 2e 48 d7 8a 97 b7 21 54 5a 86 16 7d 53 fa 40 5f 49 bo od b8 bf 02
fc 7c a9 c9 22 47 92 79 08 90 46 00 1e 9f 6c 06 87 5f bo c8 6f ad ea 25 e4 ab 4c 51
27 24 6f 60 1c 86 24 a1 e6 8b of bc b6 52 fa c5 71 fb ba bb 39 47 e2 do 27 7b 02 ae
e6 44 70 fo 8e c1 2f 71 1e fc fa e5 d4 a9 62 49 f7 e4 be d3 72 7e 3b 81 d2 28 45 c3 2e
2d cf 9e ed 38 96 bf 31 a3 41 2d 5b 19 91 b5 5c c6 35 9e c5 fa 4f 37 70 d2 db 28 30
69 65 b2 4e 10 04 71 7b 21 37 oe 75 ea 60 a7 87 99 cc e2 d1 3d f6 92 a9 2e d5 78 71
1b 6b 2b a3 8a 2b ao 3d 8b 3d f2 91 68 da c7 b5 63 78 01 73 d2 92 19 52 d5 d5 1f c2
9d 4b 5c 00 e2 b1 1d 5b e3 15 6e c4 9a 56 0a 54 bb e1 04 9f 26 47 47 40 76 a2 88
42 b3 92 b1 ca bc 7f 43 eb c6 46 b2 53 c7 75 b2 69 f1 44 48 e9 3c af 04 bf 2b 9f 91
13 5a f5 9e 70 02 2b 96 55 d4 eo 28 01 9f 48 28 e9 4e 97 58 7b ee 96 8a 08 a5 22
a9 54 f2 2b oe 79 oe 87 04 3b 24 36 74 b6 oa 93 d4 b4 dc d3 56 bf ao c3 7e dd 4b
11 95 dc 50 ce 1e 69 ad fd 75 34 70 f9 8c 65 16 12 a2 97 b3 a2 b2 67 93 ca f9 ba 25
5f 34 76 80 f7 89 ee 6b 7b 83 78 f2 ac e8 cf f5 2e 8c d7 dc 2f d5 70 f8 2b de 72 64
00 6f 32 ff 53 72 08 95 7a 5d d3 e4 45 3e cd cf db 63 15 5b f6 fb 3c 93 bc oa 9a a6
6f d4 62 5e f2 11 d4 43 68 78 e7 4d 00 1b 57 ef 18 3c a3 oe 99 e6 5f b4 6d 33 58 f6
dd 90 82 65 1c de d5 d9 44 a7 1f 91 7c 32 43 61 61 c6 8f 45 68 68 6e 69 f9 8b fd 5a
5b f7 oe cf 07 70 od oa c7 90 ab 3a 8a 49 b1 06 34 fe 2a b7 35 39 4e e5 oa 36 35
8a co 4e 2d 7a 00 d7 33 87 c4 64 9d 90 31 c4 f6 d3 ca 9a 5b 8b 02 03 01 00 01

SHA256 thumbprint:

1BD3870B842FFoA637284268017E18E455A7FD2D84468F3CDF7D587C7AB35C9D

Qualified Certificates for Service Providers - G5R

Issuer: CN = DVV Gov. Root CA - G3 RSA, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 0179a399c45960ob353ba79987192f (hex)

Valid from: 25. May 2021 13:39:39

Valid to: 20. May 2041 14:09:39

Certification Authority: CN = DVV Service Certificates - G5R, OU = Palveluvarmenteet, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha512RSA

Public key (ASN.1-notation): 4096 bits

```
30 82 02 0a 02 82 02 01 00 bb 1c 4e cb 91 f9 e9 e9 41 7d 51 89 be a3 04 fd fa 9b
7b bf b2 79 44 58 39 13 8d 23 b8 31 97 b5 25 a1 43 5e d5 49 70 70 9e 7c a8 24 e7 73
09 25 28 b9 6f c2 b5 eb bf 33 e1 69 41 b6 8f 46 99 7c 88 17 1f 4a 32 99 e6 28 27 24
70 09 64 5e 8f 87 a4 d2 05 48 20 e9 do 2b 1a 15 9f 1f 87 54 41 4b c7 bc 34 98 51 8c
eb a7 d4 8a fb 66 2a 81 90 1e 82 5f 9f dd 9f fa ce fe e9 f5 1a 09 44 d9 30 4f d2 f6
6e 80 04 d4 50 f6 b3 e6 09 6c ed 1d ob 61 31 fo af ec 07 bd 22 ef 90 90 e4 1b 26
9e 81 7b 61 e2 6c e1 4c 96 ed a5 23 47 d5 7e 63 6f 96 ea 27 f3 13 2e e8 a6 51 a3 1f d6
67 19 57 d2 e4 dc do 08 02 09 d5 5f 99 45 3f 8f 4a 56 db 85 67 6f 77 oa 9f c6 6b
ab 88 78 63 39 4c d3 65 90 6a 2d 3e 47 19 bd 8d ca 4b e7 de 4b cd 58 54 df 35 b6
49 ea dd oe 18 15 4b d5 bo e6 f5 1e 60 40 9a 86 38 ee oa 3a 9a 71 fd 66 52 c8 c9
1e 97 d4 25 16 61 co 8d 9b 54 46 ob c1 e9 53 56 a7 ba f3 5c dd 92 17 8c 29 6d 5a 44
2a 21 b1 06 89 a6 9c 3c 7d 96 f5 00 d6 e9 ed 65 da 87 5a cd a5 23 1c ad ff 7d 9b aa
5e dd e2 97 c3 81 7e cb 32 01 84 61 69 c7 08 37 df 2d 52 dc 16 03 73 83 5a 41 13 16
be c4 a9 d8 77 85 do 53 a8 87 62 bd f9 8d e7 ef cb a7 oe e9 00 9b ac ec 9a fa f7
36 bf 97 21 c1 fe 96 b4 42 70 a2 bb 3e 37 77 4f 13 ab 9b 39 7a 8e 18 b6 2f e1 57 47 01
eb 63 oe 49 7c a5 d7 60 be 68 80 od 4d 01 b7 2e 31 34 7b oc 84 b2 30 71 5a f2 e2
fd eb 58 7a 77 ed cf 98 cc e9 90 6e 38 99 2b 23 a2 ab 68 de 24 oa 36 83 ca 5d b8
31 77 23 d4 f4 06 1d 81 b8 68 f4 bb b7 36 b9 df 9b 2b d5 69 35 8e 47 2c b8 6e 00
bc of 4e 68 54 58 e4 c1 be d7 31 ca f5 a6 66 c1 1a 5c dd 8c bc df a6 9d 02 03 01 00
01
```

SHA256 thumbprint:

46319C69041DB9A0D93DAE802E3002CC615365931FE0976D392E8863E3F3BE31

Qualified Certificates for Service Providers - G5E

Issuer: CN = DVV Gov. Root CA - G3 ECC, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 0179a39cdd1496bf683b2044650e56 (hex)

Valid from: 25. May 2021 13:40:27

Valid to: 20. May 2041 14:10:27

Certification Authority: CN = DVV Service Certificates - G5E, OU = Palveluvarmenteet, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha384ECDSA

Public key (ASN.1-notation): ECDSA_P384, 384 bits

```
04 3b 72 4c b1 a1 6d ce f5 bo 2e 57 47 ef 44 dc ec cb 44 f4 ao 6e 88 8b fc 98 b9 2c
94 ff 7a b9 16 75 01 94 9e 37 a4 f4 17 ec 3f a1 65 ao 01 36 a2 89 4a oc 80 15 18 e8
```

52 66 e5 c3 da 5f 9b 09 96 12 a6 a3 05 do d5 4e 8f 01 e1 e5 08 15 f6 d8 a5 fe df 6d
53 ab 1f 33 ac 14 eo 8f of d8 f4 aa e3

SHA256 thumbprint:

93C176167ECA02A1B262B16517AC5FB5FC25D3568D97ECDDDo4E3A6126B6C7BA

Social Welfare and Healthcare Professional Qualified Certificates

Issuer: CN = VRK Gov. Root CA - G2, OU = Varmennepalvelut, OU = Certification Authority Services, O = Vaestorekisterikeskus CA, C = FI

Serial No.: 03 od 46 (hex)

Valid from: 3. May 2018 12:24:51

Valid to: 2. May 2038 12:24:51

Certification Authority: CN = VRK CA for Social Welfare and Healthcare Prof. Certs, OU = Sosiaali- ja terveydenhuollon ammattivarmenteet, O = Vaestorekisterikeskus CA, C = FI

Information on Algorithm: sha512RSA

Public key (ASN.1-notation): 4096 bits

30 82 02 0a 02 82 02 01 00 a9 47 fd 86 65 a2 44 88 6a e8 53 eb a9 8b 6e 1a 96 ec
d5 7d 50 ce 31 2c 61 d5 f1 d1 41 87 e8 c5 91 c8 df f9 70 fb 4b 9d eb fo c9 f9 9c 17 16
00 23 16 62 4a 92 49 61 5e c4 35 15 be fe be b7 93 23 f6 16 51 69 5f 95 15 b7 b7 eo
84 90 75 3d 8f 23 32 4f 5b 7c d9 72 e5 05 9f 46 48 61 09 10 83 08 60 db 90 ao 6c
9a 3e 7d 9c 31 50 96 5f d1 d9 32 82 96 7f 9c 9b 6d e5 32 28 56 d5 a4 b2 87 52 fc ba
8a a4 0a d8 35 df fd 4e 1b 17 1a of ec oe do ee a9 61 56 29 99 38 bb 10 ab 74 69
oe 67 94 f8 c9 a2 58 fb f5 c9 54 co 9a of 94 15 43 e6 17 39 48 72 72 23 02 f6 e8 81
9f e2 ad 15 33 b1 7a 9b ca 76 53 ef 38 co fe 70 1e 44 9d 01 71 38 26 29 co db 2f d7
b7 4c 15 05 36 b4 3f 75 4f 2b e8 ce d1 f7 1d 59 28 co 1a 22 c2 a5 97 01 52 38 78 ae a3
ad 61 ea ec ce 5f 9e 80 03 fo df 38 co eb 54 f4 od 7a 5d 4b 3c d3 c1 e7 2f 9c 76 9e
4d aa 9c 79 dd cf 56 24 be 49 88 ed b8 ef c4 ae b3 69 b3 c3 ca f3 d9 d5 93 b6 f4 e1
01 30 55 06 f9 29 c7 4f 67 f1 fc 33 of 31 77 c5 d1 13 02 07 a1 00 d7 39 46 06 66 ba
bc eg ff 92 1d b4 8e e2 6c 45 42 2e 83 b2 oc d5 d6 00 90 1b 06 88 oe 9c cf c1 18 c3
68 1a 6a 14 af 83 e1 2f c3 94 84 7c 8a b5 od de a2 57 8c f3 af ef a5 69 56 44 67 ac
1d f9 ac 82 07 ee 30 04 ao d7 b8 7e 60 8d 1e 04 83 3e 2f fb oc 2c 53 94 1d 26 ed ea
c5 4a 88 85 2d 3e 12 62 9a 47 92 80 a6 7e c5 27 14 f8 89 ac bc 27 5b 6d e3 ae 8a 1a
a7 3d 8a cb 1b 65 53 be 04 bo 6c d9 2a 25 a4 30 d4 8a 31 41 63 29 a6 2c 19 af b2 1b
33 4a 8b 43 f6 d3 31 9d ao 13 d1 00 f1 b1 c3 5c 37 b1 b9 5d 70 8f 39 e3 72 91 fe 67 4c
8a 6e d1 ob 3a 02 b5 4d d3 99 57 24 e8 ac 3c c5 97 02 03 01 00 01

SHA256 thumbprint:

0E839EE68B1EEF721D31E62E589E692Co318oFAADADE48A71837C25090B3ACC4

Social Welfare and Healthcare Professional Qualified Certificates - G2R

Issuer: CN = DVV Gov. Root CA - G3 RSA, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 0179a39f3adfaffabco1ffd3e62ea6 (hex)

Valid from: 25. May 2021 13:41:08

Valid to: 20. May 2041 14:11:08

Certification Authority: CN = DVV Social Welfare and Healthcare Prof. Certificates - G2R, OU = Sosiaali- ja terveydenhuollon ammattivarmenteet, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha512RSA

Public key (ASN.1-notation): 4096 bits

```
30 82 02 0a 02 82 02 01 00 b5 5a b4 5d 75 fo df 45 2c 78 ff 3a cf be b1 da 89 52 ae
1f 4a aa af 35 e9 98 b4 a9 59 99 71 49 29 3d 51 94 4a 7d 71 28 4e 71 51 8c 9c 12 79
db d7 57 67 7e 98 a3 b9 b4 52 78 6f e1 95 34 ce 53 fd 2a 5e fb 39 ad 88 e5 03 fo fe
25 c6 e3 7a ba fc 81 36 16 aa 7c d4 31 5f ff a4 a1 61 78 3c 82 54 9f a6 ab 96 d9 65 ee
43 d9 ed ef 2b 8d 7d fc 82 43 4e 60 21 f8 74 2f 42 9a 59 2e 26 8c eb 97 co b2 64 24
e5 2f dd 6c e3 e5 15 80 71 3c 33 45 6b 63 40 1d 9e 90 48 48 b7 fe c1 34 71 f6 88 8a
4f 10 c7 58 cb d5 17 53 19 45 c9 c3 83 c7 da 66 20 8f 50 f1 03 a7 63 8a 02 bb 71 ob
4e d2 58 bf 46 24 82 71 b5 ad 79 41 b3 bf 45 4a d1 65 79 54 f4 ce ba 63 8b 70 32 e6
9c 3c oc 3a 10 b6 2d 6c 69 d8 d3 d8 92 63 82 57 62 a1 oa c4 20 6a d3 c8 e4 9d 22
27 4c 99 ac 7d 81 68 74 48 16 d1 ee a9 2e o8 66 1e cb b2 cf b3 e1 b8 e3 96 21 e4 ed
7a 4a a5 f9 7e c5 01 44 2c 1c af 16 fb 83 e4 ba 74 59 oa 4a 93 24 30 1e 2a 99 b3 c4
60 73 1a 43 1b 7e 90 7b f6 f2 7e 7e 5d ce dd 9d 2a 80 5d d4 5e 79 4f a4 64 60 50
40 bd 4d dc 34 of b7 aa 7d 7f bb dd 23 64 1e 73 9c 21 9c a8 77 c7 73 7c 04 f3 91 8b
f2 57 05 oc 98 81 of 10 8c 9d 3b a5 53 1e 62 cc 87 62 82 50 bc e8 eb d2 a8 f3 1e 45
7a 9f eb 22 cd cc 6b 9f 3e 55 b4 25 df 61 d6 74 bo a8 c4 d9 6a af 1b 72 7f 62 9a 3d
a9 5f 20 2e 11 e4 83 f3 7b 68 6e 54 42 31 bc 52 84 34 44 79 2e a1 b6 60 e2 83 68 f1
5c 63 91 51 56 e5 8e e6 28 44 d3 fb b9 fo d3 da d8 25 71 c5 74 ff e4 62 a6 ab ed 56
53 ec 84 91 b3 6c 8d 74 2e fd 4e 57 22 07 06 bo 6b o8 ao 1a a2 4b ff 68 of 8e c9
84 e6 c6 72 39 6e b3 10 e5 60 e2 e7 bf co of 50 5d 31 85 02 03 01 00 01
```

SHA256 thumbprint:

```
6073359DE6BDFBF83874CBD53D4BDE3D8165A8E7A9F772Fo2A7C6A48A8E7B77
B
```

Social Welfare and Healthcare Professional Qualified Certificates - G2E

Issuer: CN = DVV Gov. Root CA - G3 ECC, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 0179a3a1683ec94b58d9233eoe78aa (hex)

Valid from: 25. May 2021 13:41:41

Valid to: 20. May 2041 14:11:41

Certification Authority: CN = DVV Social Welfare and Healthcare Prof. Certificates - G2E, OU = Sosiaali- ja terveydenhuollon ammattivarmenteet, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha384ECDSA

Public key (ASN.1-notation): ECDSA_P384, 384 bits

04 84 dc 74 67 6c 04 a4 df 9a 99 49 c4 89 96 1d 21 14 bc 9c 91 c4 12 19 5b f5 3b fd
e1 b3 b6 5e 26 75 09 dd 06 f4 9f d7 8d ce 8c b3 48 96 86 8c 82 81 84 cd co 07 16
1f fc 21 oc be 85 38 fb 7b 44 25 fe 72 35 ec f8 a1 64 fe df b5 eo 23 05 ef ob 05 oa 86
24 1a 8e e7 e4 d6 bc ae 7e e3 71 62 1b

SHA256 thumbprint:

A155B9FB8A372683A3825054F9A5265C55430A68616BAD8A1726E70F09F95A26

Social Welfare and Health Care Service Providers Certificates – G2

Issuer: CN = VRK Gov. Root CA - G2, OU = Varmennepalvelut, OU = Certification Authority Services, O = Vaestorekisterikeskus CA, C = FI

Serial No.: 03 od 47 (hex)

Valid from: 3. May 2018 12:37:17

Valid to: 2. May 2038 12:37:17

Certification Authority: CN = VRK CA for Social Welfare and Healthcare Service Providers - G2, OU = Sosiaali- ja terveydenhuollon palveluvarmenteet, O = Vaestorekisterikeskus CA, C = FI

Information on Algorithm: sha512RSA

Public key (ASN.1-notation): 4096 bits

30 82 02 0a 02 82 02 01 00 bf 92 83 c8 ed 45 d7 ef 27 d4 be 42 59 c2 38 84 ba cc
d5 od b6 ef ff d7 e2 12 ba 04 88 1b 93 24 64 85 9d 21 42 30 b7 95 49 d4 fc f7 8b f8
df 85 6f 40 a2 27 dc 04 6b 00 9d 67 98 fb 4d d2 43 5f c9 d3 e6 a2 7a b7 e7 68 83
ef a5 f6 1f dc 27 98 97 28 ac b6 98 36 eo 2b 33 co 30 b1 cf 00 7d 27 fo 98 9d 8f b6
56 e9 58 32 24 14 28 05 3a ef f9 d6 35 33 eo d9 7f 47 co 77 30 68 4f 5f f3 ff dd 9d
77 4f e2 c6 19 bc 8b 79 b7 01 a7 11 62 82 8e dc 59 54 fa ff e8 a8 4c d5 4a 59 ab fa
95 78 34 5c 64 07 f5 5f ef df aa 79 7a 98 22 ba od 4a ce f3 f7 c4 39 e7 ca 79 c5 f6
8a of 82 6f 5c 3b 2a 1b a1 d3 c6 17 be 95 eo ao 93 46 5c 08 3e d9 d1 72 6f 30 a3 d1
69 b8 66 40 62 oe 33 5c 29 d8 f2 b9 37 d5 bf c1 83 c7 33 6b 9c ba f1 58 e8 6e b7 35
d2 06 b9 71 7a cc 89 29 f5 95 d1 39 e6 ad 65 6e bf d3 94 38 da 8c ca ee 22 20 45 f5
fb 10 a1 66 5b a8 42 51 31 cc 74 cd 8b 5e a7 62 ce 95 e4 91 8e 26 34 43 50 bo ao ce
67 ob oa 9a ab 26 82 2c 24 cc 33 88 2c ae ce 14 d4 38 a6 70 5b ob 4d 52 e9 92 a6
30 e3 3f fe 62 f4 38 23 6f 15 5f 9a e3 74 8f cf 89 08 e9 f1 3e 11 09 05 31 3c 4f 32 53
3a b8 73 52 13 b6 ao 54 64 b3 89 df 36 e7 38 22 bc 73 oe a4 61 b6 a8 76 da 53 39 38
57 eb 42 1c 07 88 f7 01 ac 47 72 4e 9d 3b d9 e4 a6 6e ab 22 a8 2d 25 bb cd 52 db 24
b5 f4 13 23 83 26 75 do 71 19 f4 bb b6 23 49 98 39 e2 cf 71 76 of 5a cf a6 d4 84 40
87 f8 42 46 97 of 91 bb 56 f1 fa fe 90 d9 ca 30 73 ff 06 a5 a1 17 3e 32 43 05 f4 ea 15
a9 e6 6f 92 ec dc ac 1b e6 03 96 b6 8b bo f4 61 63 7c f3 74 bo 91 53 f6 df 9c ca ce
75 85 17 89 77 17 49 f7 1b 3e d6 02 84 ae 7e bf 4f e5 02 03 01 00 01

SHA256 thumbprint:

A6B34F7BoE87446362BB1A2BF3EE95DD56D8BA97A9FFBo3DF41031377ECDD6F
8

Social Welfare and Health Care Service Providers Certificates - G3R

Issuer: CN = DVV Gov. Root CA - G3 RSA, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 0179a3a6e94664d8c5fe97c2aegdca (hex)

Valid from: 25. May 2021 13:43:57

Valid to: 20. May 2041 14:13:57

Certification Authority: CN = DVV Social Welfare and Healthcare Service Certificates - G3R, OU = Sosiaali- ja terveydenhuollon palveluvarmenteet, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha512RSA

Public key (ASN.1-notation): 4096 bits

```
30 82 02 0a 02 82 02 01 00 e3 dd 50 f4 d3 e2 1c a3 7b d4 4e fb 4c c9 cc db bo 50
d2 fb f8 07 9d 44 6c 60 56 06 09 15 c2 67 14 0a 77 dc e8 45 a6 ob a4 b7 d7 93 86
b7 73 a4 ff f6 10 2f 2b 10 d1 2a 25 c7 69 5e db a3 3e 27 cf a7 f1 fd b9 46 42 d7 a8 79
55 46 8f 92 f6 eb 7e 3c 5d 7e 6b dd ea d1 a6 d3 40 83 72 92 eo eo co c6 fi 78 82 49
b6 40 c3 ed od 80 65 41 fo df 4b d8 88 93 ad de 4f e8 95 42 ob 6a 9c 6d o4 5e fa
76 29 08 oc 96 73 10 f1 44 59 3a e7 09 f1 54 9d 7c df a7 2b f9 31 b2 6a d7 5f ef 56
07 6b 96 9c 9b af af de c3 37 01 37 11 5c b9 59 9b b3 72 c5 8c 76 e5 od c8 95 dc e6
of 8b dd 9f b9 e9 6e 4d d8 43 f3 a4 a5 a8 5d 16 d2 d9 38 8e f5 f9 cf af 2a 15 oe 2f
ad 3f 6f 18 5f fe b2 14 fa 10 60 6c 86 2c ce 70 c6 99 00 43 85 bd cf ad 67 2e 84 c9
57 96 ad 1c 22 84 ae 21 ab 51 08 9c f1 19 ed 46 65 d3 a8 de 5f 25 3c 2f 59 c8 13 c1 fi
ba 5e 50 76 97 e7 ea ce 30 bo f3 4a ob 48 67 7c bc 97 4c 7c aa 27 ee 92 46 ff b2 f7
6c 5e b5 30 a4 69 93 26 a1 d5 bf c3 3a 5b bd de 2d 1c 71 b5 f1 bd c7 53 84 dd 1e fa
ed 71 81 8f ee ef 32 9a 95 56 dd 3a 55 20 1e 81 b9 bb 68 32 f6 07 8a bc 84 d1 bb ff
10 b6 4f 4c 00 6c e6 c6 61 33 83 9f 5f cc 78 de c1 3e ae dc 7a 74 fo 28 ea 46 77 2d
a9 c5 ce 7f aa 82 fd 6c ab 7e 92 e4 c4 f7 a2 ca ba 43 e6 57 e9 47 22 81 08 35 1b 2d
eo d1 30 13 89 6d f3 42 fo af 3f 9a 16 f1 20 b5 5b 49 4d a9 a9 ef 8c e4 c6 7c a6 60
ea 09 50 3b 7a 2d c5 72 co 8e c5 55 ed a8 c5 40 d8 9e 19 97 65 e8 09 53 9b f3 03
e8 5f c9 b5 63 27 38 57 co 81 7c oc 46 2b 9d 4a 94 9e 69 a5 c7 d4 ba 6e 97 97 73
bf 41 bc 2b f5 a6 46 51 3d e6 96 ff 4f 96 87 2f 54 f5 a7 5d o2 03 01 00 01
```

SHA256 thumbprint:

9D433C237C3AEE7A676C9A2ED4ECCB9E40ED17914655571624FoA89969B634B
F

Social Welfare and Healthcare Service Providers Certificates - G3E

Issuer: CN = DVV Gov. Root CA - G3 ECC, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 0179a3a8d9ce45add46f9d72bbc99b (hex)

Valid from: 25. May 2021 13:44:24

Valid to: 20. May 2041 14:14:24

Certification Authority: CN = DVV Social Welfare and Healthcare Service Certificates - G3E, OU = Sosiaali- ja terveydenhuollon palveluvarmenteet, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha384ECDSA

Public key (ASN.1-notation): ECDSA_P384, 384 bits

04 6f 81 5b 83 39 c6 c4 64 7c 2e c6 2a 75 47 fe 51 do 55 27 ec 7c c3 5a 5c d8 b1 25
40 a7 46 1f 7c 4c 39 b9 fb 1d 46 d7 97 ba 48 86 cd d6 c9 06 7e bo 9a 7b 90 6b 72
f9 b4 61 3b f9 72 ed a2 fd ea a3 05 67 83 5c 39 b3 84 8f 9f 52 6f 95 b5 69 cf af 7e
11 od ob f9 95 83 73 3d dd 9d 9f 67 fb ed

SHA256 thumbprint:

A5C53CF6843A395E6EC244E9B27D58413295428DED97586FD4F67AA4AB8D49A
0

Qualified Temporary Certificates – G3R

Issuer: CN = DVV Gov. Root CA - G3 RSA, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 0179a3978c5aee5f5d9606cedfc144 (hex)

Valid from: 25. May 2021 13:35:03

Valid to: 20. May 2041 14:05:03

Certification Authority: CN = DVV Temporary Certificates - G3R, OU = Tilapaisvarmenteet, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha512RSA

Public key (ASN.1-notation): 4096 bits

30 82 02 0a 02 82 02 01 00 9b 7f 1f 1f a4 56 c8 58 73 89 5c d7 f9 7d 1c ed 04 3c oc
ed e5 22 d7 20 a6 fe 56 5a b7 a4 8e 09 73 35 b3 5f 3f 36 60 10 ff 2c 07 8f ca 49 b4
ce 1f 41 db 95 e1 61 3f dd 79 33 72 56 29 b1 7c ac 39 6d 76 47 7d d8 cd 15 79 49 4e
79 93 8a 18 4b c8 ob bf fa 9f 3a 77 fb ca 2f 3d bf 77 ec 4e 6e 12 1f 7a 6a 7a 64 62 2a
2f 48 84 07 do 60 2d 17 00 fc 23 1f 07 63 37 fa 18 43 03 d1 56 1e 1f 7a f8 9b 7d 80
5b 3f da 3b c3 eo 69 36 40 3f 66 66 7c 33 6b fe e4 f3 ao 2e cb 75 b5 db fb 34 9d 7f
a4 b7 38 8c f8 oa 6a fa a4 2e 73 80 95 30 46 d5 66 03 78 12 ff 53 d7 ao 15 b7 03 90
b3 49 e2 c1 ac 79 72 2a ab 34 86 8a 8b e1 a4 37 c5 ff 46 99 c1 6b b4 5f a3 eb 41 b1
42 4b 43 eb cc bb c9 ae e8 ac f4 b8 a6 09 ce 64 ed 76 75 9d ec ag 39 c2 37 97 86
70 2c f3 63 c6 e3 o8 d2 bd bf 36 c2 fe 39 69 do 3d 56 a8 96 87 1c 15 e8 3d 7a 2d c7
9e 29 6b 05 3e 9f f5 fo e8 76 4c 91 65 f7 af 84 77 31 c6 c7 8b 6a 6d 09 dc 48 e2 5f
ef f3 24 2f 09 01 f5 bf oa 3a 39 01 a1 02 44 bf o6 89 ea c6 db 9a 3d df 2b 2f oc cb
ca 5f 64 ce 4d 62 4a b4 7b e5 6e 8c bo d5 56 ao 2a af 8a ae 6f 05 2d ee a3 od 38
3e d6 89 fd ac ab ba 28 a6 da 98 oe 44 95 8d a5 b2 cd c5 7a 7f a3 99 82 55 37 26
d2 9d fe 71 do 7a cf 45 84 23 7e 3a d1 31 25 77 37 42 21 c7 80 26 b7 82 3a 6d b1 75 ff
f8 35 88 7a 42 aa 2d 67 20 00 a6 de ce 60 20 8f 81 cf d8 29 73 c6 ed 8f d8 f9 97
06 28 6a 45 f2 6e fo 1e a4 d4 fe 25 fb 27 b6 38 00 bb o8 bo 66 o8 ee dc e6 7e b3

ag 29 12 84 5e 01 01 40 dd 27 d9 1d 30 c5 5a a5 ef 97 94 51 20 e8 78 06 6f 9e 6f 69
ac 28 66 c5 of f5 77 ao e6 23 df 93 14 co c4 4e 21 48 a5 5b 02 03 01 00 01

SHA256 thumbprint:

428089726472CA75A47F8E011AEB6483036973C72CF05478953B2FC2E012B731

Qualified Temporary Certificates for Social Welfare and Healthcare Professionals - G2R

Issuer: CN = DVV Gov. Root CA - G3 RSA, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 0179a3a390119317475e07e2dd4fc8 (hex)

Valid from: 25. May 2021 13:38:35

Valid to: 20. May 2041 14:08:35

Certification Authority: CN = DVV Social Welfare and Healthcare Prof. Temp. Certificates - G2R, OU = Sosiaali- ja terveydenhuollon tilapaisammattivarmen- teet, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha512RSA

Public key (ASN.1-notation): 4096 bits

30 82 02 0a 02 82 02 01 00 ac 7f 46 a2 98 f4 12 ae 6c 63 1b a5 be ea 9b ag 26 0e
a1 af f3 df 49 3f 6b 2b b2 fo 20 50 45 1a dc c4 87 9b e1 30 59 97 05 d8 6e e4 6e 65
0a ce 36 21 28 e5 1c 08 ef 41 58 13 3c 92 e8 6d ba 17 45 31 d7 d3 dc dc bc 83 34 80
fd d2 84 5e 09 70 6f 49 f7 c3 86 68 eo 5d 61 15 19 e8 b3 cd 05 ao 84 do 7a 40 86
5d 12 2a 7c 17 18 dd 46 20 03 85 d9 do 18 9d 08 ao 03 ao eo 40 ff 23 c4 b5 9d 73
19 e6 90 82 71 42 58 6d cc f5 d2 fe 4f 2c be 2a 73 fe 36 33 6f 8e 58 of 07 91 bc 8c
4c 98 do c1 b3 5f a3 87 d9 b7 c4 c9 66 47 f6 1e e3 db 4b d9 a7 38 f3 80 fa fo ag d5
77 b4 18 2b 93 36 bc ac fc b3 5b de dc 97 59 5a ba 7d 65 96 ea f6 ae 52 a4 1e 78 9f
58 db dd d1 c8 de ef 4a 3a 44 b8 ce be a2 3e c1 f8 6b 4b 51 2b ea a3 3b 3d 45 68 73
78 52 d6 7d e5 1c be 1f 89 f9 a1 fe 8c 4e e4 47 74 9b a6 ba b3 4b f1 co aa bc 6a 3d
bf da 40 c4 31 c1 72 82 56 56 c6 2b f9 a1 4c 88 3d 33 b1 75 36 ag 2c da 1c a3 26 9b
2a 2a 1a e9 c9 do cd 18 03 68 1d 4d 1a b7 b8 93 3d 4e 97 fe 17 e7 a8 fa d7 oa 2e 64
87 65 6b ag 10 a3 01 a8 b7 45 6f d1 of d2 30 21 4f 51 c2 14 9d 88 2f 6a 9d eg a5 06
46 do 98 bd f2 19 oe 7f 13 12 57 a5 4b 88 7b 2b 3d ab 60 c6 bc d4 24 86 03 9e 48
5a 44 c8 cd d2 57 c5 8d eo 7e e1 89 do f7 8f f3 16 4e f1 44 14 2f 47 36 7f 90 do 19
b8 49 af 66 1a 5a a9 32 e9 5d e6 bd e7 01 1a 45 co c8 53 9b 09 of ec 96 76 40 35
19 1b 8f 73 3a 05 d2 f3 af 2c 23 05 11 5b 21 3b f7 43 90 16 a2 61 3e 51 7f 73 19 e7 9b
f3 74 9b 4c do 88 2f 7f e7 3e 61 82 37 cd 9e f6 eb 99 f6 3a bo 94 do 74 e4 ao c3 85
fc 14 9a ff 20 47 02 b4 b8 c5 f5 3c 03 1d 30 ad fe 9c 29 00 45 02 03 01 00 01

SHA256 thumbprint:

6E73C6A3422AE3BB37AF6D3933092A1F6959C09EB17FoA7E14F539665F50C949

Qualified Temporary Certificates – G3E

Issuer: CN = DVV Gov. Root CA - G3 ECC, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 018f811bade5966ofe44eb736beeeb (hex)

Valid from: 15. May 2024 13:43:45

Valid to: 5. May 2042 10:51:30

Certification Authority: CN = DVV Temporary Certificates - G3E, OU = Tilapaisvarmenteet, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha384ECDSA

Public key (ASN.1-notation): 384 bits

04 87 6f 6b ef do b8 64 a3 3b 9b 53 d3 f3 38 4a 5b d4 65 11 co a3 71 01 d6 bc c8 90
07 7a 62 e1 d4 db 8e 92 66 f6 df fa 7c 10 8f d1 35 33 e2 8d b4 12 6b 33 eo 3e 7c a5
07 ba 47 7c 7c 7f 47 b8 bo bc 67 d3 c4 1b 24 46 o6 fo e3 fb 39 63 1e 90 2f oc 4e c5
d9 29 66 oe 83 01 75 38 78 39 ef 1c b9

SHA256 thumbprint:

1909d871df44093975764f011b224aedfd058b8c

Qualified Temporary Certificates for Social Welfare and Healthcare Professionals - G2E

Issuer: CN = DVV Gov. Root CA - G3 ECC, OU = Varmennepalvelut, OU = Certification Authority Services, O = Digi- ja vaestotietovirasto CA, C = FI

Serial No.: 018f8121b316c7ef6f51f6ce6cee54 (hex)

Valid from: 16. May 2024 13:50:20

Valid to: 5. May 2042 10:51:30

Certification Authority: CN = DVV Social Welfare and Healthcare Prof. Temp. Certificates - G2E, OU = Sosiaali- ja terveydenhuollon tilapaisammattivarmenteet, O = Digi- ja vaestotietovirasto CA, C = FI

Information on Algorithm: sha384ECDSA

Public key (ASN.1-notation): 384 bits

04 bc b7 b4 62 74 75 7a fc 89 5f f1 7e 3d 17 51 c1 56 6f 83 29 1b d2 33 17 88 a6 14 fa
2f 8a 2c 52 bf c7 13 oc 6e 40 4d 16 bo ad af ca 2d 3d 66 oe ad e3 7a 50 a7 50 86
62 87 19 bc 69 18 f7 f7 b7 a6 e1 do f1 3b 3e ae f1 eo 50 fd 43 23 c1 cb bo fb 81 95
ec 8f 7f d7 ef bd 85 31 aa f5 f2 01 e3

SHA256 thumbprint:

525d3b37fe5c4168222e2c606f4d6e3bb581bf3e

together with the following documents issued by the service provider:

- Digi- ja väestötietovi-rasto., Certificate Policy for Population Register Centre's citizen certificate (OID: 1.2.246.517.1.10.202)
- Digi- ja väestötietovirasto., Certificate Policy for Digital and Population Data Services Agency's citizen certificate (OID: 1.2.246.517.1.10.302, 1.2.246.517.1.10.352)
- Digi- ja väestötietovirasto., Varmennepoliitikka (CP) for Population Register Centre's organisation certificate (OID: 1.2.246.517.1.10.203)
- Digi- ja väestötietovirasto., Certificate Policy for Digital and Population Data Services Agency's organisation certificate (OID: 1.2.246.517.1.10.353)
- Digi- ja väestötietovirasto., Certificate Policy for the Population Register Centre's service certificates (OID: 1.2.246.517.1.10.205)
- Digi- ja väestötietovirasto., Certificate Policy for Digital and Population Data Services Agency's Service Certificate, Service Certificate For The Social Welfare And Healthcare Sector and seal certificate, v1.4, o8.01.2024 (OID: 1.2.246.517.1.10.305, 1.2.246.517.1.10.355, OID: 1.2.246.517.1.10.308, 1.2.246.517.1.10.358)
- Digi- ja väestötietovirasto, Certificate Policy for Temporary Certificate (OID: 1.2.246.517.1.10.304)
- Digi- ja väestötietovirasto., Certificate Policy for social welfare and health care professionals' certificate (OID: 1.2.246.517.1.10.206)
- Digi- ja väestötietovirasto., Certificate Policy for social welfare and health care professionals' certificate (OID: 1.2.246.517.1.10.306, 1.2.246.517.1.10.356)
- Digi- ja väestötietovirasto., Certificate Policy for Population Register Centre's service certificate for the social welfare and healthcare sector (OID: 1.2.246.517.1.10.208)
- Digi- ja väestötietovirasto, Certificate Policy for the temporary certificate of social welfare and healthcare professionals (OID: 1.2.246.517.1.10.307, 1.2.246.517.1.10.357)
- Digi- ja väestötietovirasto., Certification Practice Statement for Population Register Centre's citizen certificate stored on an ID card (OID: 1.2.246.517.1.10.202.1)
- Digi- ja väestötietovirasto., Certification Practice Statement for Digital and Population Data Services Agency's citizen certificate stored on an ID card (OID: 1.2.246.517.1.10.302.1, 1.2.246.517.1.10.351.1)
- Digi- ja väestötietovirasto., Certification Practice Statement for organisation certificates (OID: 1.2.246.517.1.10.203.1)
- Digi- ja väestötietovirasto., Varmennuskäytäntö (CPS) for organisation certificates, certificate distribution under agreement (OID: 1.2.246.517.1.10.203.2)
- Digi- ja väestötietovirasto., Varmennuskäytäntö (CPS) for non-regulated healthcare worker's certificate (OID 1.2.246.517.1.10.203.3)
- Digi- ja väestötietovirasto., Varmennuskäytäntö (CPS) for service provider person's certificate (OID 1.2.246.517.1.10.203.4)
- Digi- ja väestötietovirasto., Certification Practice Statement for Digital and Population Data Services Agency's organisation certificates (OID: 1.2.246.517.1.10.303.1, 1.2.246.517.1.10.353.1)
- Digi- ja väestötietovirasto., Certification Practice Statement for Digital and Population Data Services Agency's organisation certificates, certificate distribution under agreement (OID: 1.2.246.517.1.10.303.2, 1.2.246.517.1.10.353.2)

- Digi- ja väestötietovirasto., Certification Practice Statement for Digital and Population Data Services Agency's non-regulated healthcare worker's certificate (OID 1.2.246.517.1.10.303.3, 1.2.246.517.1.10.353.3)
- Digi- ja väestötietovirasto., Certification Practice Statement for Digital and Population Data Services Agency's service provider person's certificate (OID 1.2.246.517.1.10.303.4, 1.2.246.517.1.10.353.4)
- Digi- ja väestötietovirasto., Certification Practice Statement for Temporary Certificate (OID: 1.2.246.517.1.10.304.1, 1.2.246.517.1.10.354.1)
- Digi- ja väestötietovirasto., Varmennuskäytäntö (CPS) for social welfare and health care professionals' certificate (OID: 1.2.246.517.1.10.206.1)
- Digi- ja väestötietovirasto., Varmennuskäytäntö (CPS) for social welfare and health care professionals' certificate (OID: 1.2.246.517.1.10.306.1, 1.2.246.517.1.10.356.1)
- Digi- ja väestötietovirasto., Certification Practice Statement for the temporary certificate of social welfare and healthcare professionals (OID: 1.2.246.517.1.10.307.1, 1.2.246.517.1.10.357.1)
- Digi- ja väestötietovirasto., Certification Practice Statement for Population Register Centre's server certificates (OID: 1.2.246.517.1.10.205.1)
- Digi- ja väestötietovirasto., Certification Practice Statement for Population Register Centre's server certificate for e-service use (OID: 1.2.246.517.1.10.205.2)
- Digi- ja väestötietovirasto., Certification Practice Statement for Population Register Centre's wellbeing application services server certificates (OID: 1.2.246.517.1.10.205.4)
- Digi- ja väestötietovirasto., Certification Practice Statement for Service Certificate, Service Certificate For The Social Welfare And Healthcare Sector and seal certificate, v. 1.5, 31.01.2024 (OID: 1.2.246.517.1.10.308.1, 1.2.246.517.1.10.358.1, 1.2.246.517.1.10.305.1, 1.2.246.517.1.10.305.2, 1.2.246.517.1.10.305.3, 1.2.246.517.1.10.305.5, 1.2.246.517.1.10.355.1, 1.2.246.517.1.10.355.2, 1.2.246.517.1.10.355.5, 1.2.246.517.1.10.308.2, 1.2.246.517.1.10.358.2, 1.2.246.517.1.10.305.4, 1.2.246.517.1.10.355.4)
- Digi- ja väestötietovirasto., Certification Practice Statement for PRC server certificates for the social welfare and healthcare sector (OID: 1.2.246.517.1.10.208.1)
- Digi- ja väestötietovirasto., Certification Practice Statement for PRC server certificates for service use in the social welfare and healthcare sector (OID: 1.2.246.517.1.10.208.2)

Result of Conformity Assessment

- The service as assessed during the conformity assessment fulfils all applicable requirements.
- All certification requirements as defined in the certification program are fulfilled.

Summary of Conformity Assessment Requirements

The Regulation (EU) No. 910/2014 (eIDAS) contains the following general requirements concerning trust services:

1. **Data processing and protection**
 Requirements laid down in article 5 of eIDAS

2. **Liability and burden of proof**
Requirements laid down in article 13 of eIDAS
3. **Accessibility for persons with disabilities**
Requirements laid down in article 15 of eIDAS
4. **Security requirements applicable to trust service providers**
Requirements laid down in article 19 of eIDAS
5. **Requirements for qualified trust service providers**
Requirements laid down in article 24 of eIDAS
6. **Qualified certificates for electronic signatures**
Requirements laid down in article 28 of eIDAS
7. **Requirements for qualified electronic signature creation devices**
Requirements laid down in article 29 of eIDAS
8. **Electronic seals**
Requirements laid down in article 35-40 of eIDAS
9. **Requirements for qualified certificates for website authentication**
Requirements laid down in article 45 of eIDAS