

Audit Attestation

Digital and Population Data Services Agency ETSI Assessment 2020

Date: 24.07.2020


Provider: Digital and Population Data Services Agency
Service(s): Trust Service Provider Issuing EU Qualified Certificates

Registration Number: DSC.933

Conformity datenschutz cert GmbH
Assessment Body Konsul-Smidt-Straße 88a
28217 Bremen, Germany
Contact: office@datenschutz-cert.de

Accreditation
Information: <http://www.dakks.de/as/ast/d/D-ZE-16077-01-00.pdf>

Bremen, 24.07.2020



Dr. Sönke Maserberg
Reviewer



Klaus-Werner Schröder
Lead Auditor

Conformity Assessment Body

- 1 Name: datenschutz cert GmbH
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The Certificate of Accreditation is available at
<http://www.dakks.de/as/ast/d/D-ZE-16077-01-00.pdf>
Head of Conformity Assessment Body: Klaus-Werner Schröder
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National Accreditation Body

- 2 Name: Deutsche Akkreditierungsstelle GmbH
Address: Spittelmarkt 10 10117 Berlin, Germany
Internet: www.dakks.de

Trust Service Provider Assessed

- 3 Name: Digital and Population Data Services Agency (Digi- ja väestötietovirasto)
Address: Lintulahdenkuja 4, 00530 Helsinki, Finland
www.dvv.fi

Audit Details

- 4 Requirements: ETSI EN 319 401, ETSI EN 319 411-1, ETSI EN 319 411-2
- 5 Kind of audit: stage 1 audit, stage 2 audit
- 6 Goal of audit: assessment of conformity
- 7 The full audit (stages 1 and 2) is based on
 - documentation provided by the organization assessed,
 - interviews with employees and management,
 - remote audit.

Summary

- 8 The audit was performed as a full annual audit of the trust service provider's services. Due to travel restrictions because of the Covid-19 pandemic, the premises of the trust service provider in 00530 Helsinki, Finland could not be audited on-site. The remote audit (stage 2) was conducted after successful completion of stage 1 audit. It took place from 02.06.2020 to 14.07.2020 and covered the period from 15.07.2019 to 14.07.2020.

- 9 The audit was performed according to the European Standards ETSI EN 319 401 (C), ETSI EN 319 411-1 (B), and ETSI EN 319 411-2 (A).
- 10 The trust services audited are described in the following policy and practice documents of the trust service provider:
- [1] Digi- ja väestötietovirasto, Certificate Policy for the Population Register Centre's server certificates, v1.1, 01.12.2017 (OID: 1.2.246.517.1.10.34)
 - [2] Digi- ja väestötietovirasto, Certification Practice Statement for the Population Register Centre's server certificates, v1.1, 01.12.2017 (OID: 1.2.246.517.1.10.34.1)
 - [3] Digi- ja väestötietovirasto, Certification practice statement for Population Register Centre's server certificate for e-service use, v1.1, 15.09.2017 (OID: 1.2.246.517.1.10.34.2)
 - [4] Digi- ja väestötietovirasto, Certification Practice Statement for the Population Register Centre's wellbeing application services server certificates, v1.0, 01.10.2017 (OID: 1.2.246.517.1.10.34.4)
 - [5] Digi- ja väestötietovirasto, PKI Disclosure Statement for the Population Register Centre's server certificates, v1.0, 03.05.2018
 - [6] Digi- ja väestötietovirasto, Certificate policy For Population Register Centre's Service Certificate for the Social Welfare and Healthcare Sector, v1.2, 01.12.2017 (OID: 1.2.246.517.1.10.10)
 - [7] Digi- ja väestötietovirasto, Certification practice statement For PRC Server Certificates for the Social Welfare and Healthcare Sector, v1.1, 01.12.2017 (OID: 1.2.246.517.1.10.10.1)
 - [8] Digi- ja väestötietovirasto, Certification practice statement For PRC Server Certificates for service use in the Social Welfare and Healthcare Sector, v1.2, 01.12.2017 (OID: 1.2.246.517.1.10.10.2)
 - [9] Digi- ja väestötietovirasto, PKI Disclosure Statement for the Population Register Centre's service certificate for the social welfare and healthcare sector, v1.0, 03.05.2018
 - [10] Digi- ja väestötietovirasto, Certificate Policy for Population Register Centre's citizen certificate, v1.1, 01.01.2017 (OID: 1.2.246.517.1.10.22)
 - [11] Digi- ja väestötietovirasto, Certification Practice Statement for Population Register Centre's citizen certificate stored on an ID card, v. 1.2, 14.09.2017 (OID: 1.2.246.517.1.10.22.1)
 - [12] Digi- ja väestötietovirasto, PKI Disclosure Statement, Population Register Centre's citizen certificate, v. 1.1, 01.01.2017

- [13] Digi- ja väestötietovirasto, Certificate Policy for social welfare and health care professionals' certificate, v1.1, 01.01.2017 (OID: 1.2.246.517.1.10.7)
- [14] Digi- ja väestötietovirasto, Varmennuskäytäntö (CPS) for social welfare and health care professionals' certificate, v1.1, 01.01.2017 (OID: 1.2.246.517.1.10.7.1)
- [15] Digi- ja väestötietovirasto, PKI Disclosure Statement for social welfare and health care professionals' certificate, v1.1, 01.01.2017
- [16] Digi- ja väestötietovirasto, Varmennepoliitikka (CP) for Population Register Centre's organisation certificate, v1.2, 14.09.2017 (OID: 1.2.246.517.1.10.23)
- [17] Digi- ja väestötietovirasto, Certification Practice Statement for organisation certificates, v1.2, 14.09.2017 (OID: 1.2.246.517.1.10.23.1)
- [18] Digi- ja väestötietovirasto, Varmennuskäytäntö (CPS) for organisation certificates, certificate distribution under agreement, v1.2, 14.09.2017 (OID: 1.2.246.517.1.10.23.2)
- [19] Digi- ja väestötietovirasto, Varmennuskäytäntö (CPS) for non-regulated healthcare worker's certificate, v1.1, 01.01.2017 (OID 1.2.246.517.1.10.23.3)
- [20] Digi- ja väestötietovirasto, Varmennuskäytäntö (CPS) for service provider person's certificate, v1.1, 01.01.2017 (OID 1.2.246.517.1.10.23.4)
- [21] Digi- ja väestötietovirasto, PKI Disclosure Statement, Population Register Centre's organisation certificate, v. 1.1, 01.01.2017
- [22] Digi- ja väestötietovirasto, Certificate Policy for Temporary Certificate, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.204)
- [23] Digi- ja väestötietovirasto, Certification Practice Statement for Temporary Certificate), v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.204.1)
- [24] Digi- ja väestötietovirasto, PKI Disclosure Statement, Temporary certificate of the Population Register Centre, v. 1.0, 03.05.2018
- [25] Digi- ja väestötietovirasto, Certificate Policy for the temporary certificate of social welfare and healthcare professionals, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.207)
- [26] Digi- ja väestötietovirasto, Certification Practice Statement for the temporary certificate of social welfare and healthcare professionals, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.207.1)
- [27] Digi- ja väestötietovirasto, PKI Disclosure Statement, The Population Register Centre's temporary certificate for social welfare and healthcare professionals, v.1.0, 03.05.2018

- [28] Digi- ja väestötietovirasto, Certificate Policy for Population Register Centre's citizen certificate, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.202)
- [29] Digi- ja väestötietovirasto, Certification Practice Statement for Population Register Centre's citizen certificate stored on an ID card, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.202.1)
- [30] Digi- ja väestötietovirasto, PKI Disclosure Statement, Population Register Centre's citizen certificate, v. 1.0, 03.05.2018
- [31] Digi- ja väestötietovirasto, Certificate Policy for Population Register Centre's organisation certificate, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.203)
- [32] Digi- ja väestötietovirasto, Certification Practice Statement for organisation certificates, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.203.1)
- [33] Digi- ja väestötietovirasto, Certification Practice Statement for organisation certificates, certificate distribution under agreement, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.203.2)
- [34] Digi- ja väestötietovirasto, Certification Practice Statement for non-regulated social welfare and healthcare worker's certificate, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.203.3)
- [35] Digi- ja väestötietovirasto, Certification Practice Statement for service provider person's certificate, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.203.4)
- [36] Digi- ja väestötietovirasto, PKI Disclosure Statement, Population Register Centre's organisation certificate, v. 1.0, 03.05.2018
- [37] Digi- ja väestötietovirasto, Certificate Policy for Population Register Centre's server certificates, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.205)
- [38] Digi- ja väestötietovirasto, Certification Practice Statement for Population Register Centre's server certificates, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.205.1)
- [39] Digi- ja väestötietovirasto, Certification Practice Statement for Population Register Centre's server certificates for e-service use, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.205.2)
- [40] Digi- ja väestötietovirasto, Certification Practice Statement for Population Register Centre's wellbeing application services server certificates, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.205.4)
- [41] Digi- ja väestötietovirasto, PKI Disclosure Statement, Population Register Centre's server certificates, v. 1.0, 03.05.2018

- [42] Digi- ja väestötietovirasto, Certificate Policy for social welfare and health care professionals' certificate, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.206)
- [43] Digi- ja väestötietovirasto, Certification Practice Statement for social welfare and health care professionals' certificate, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.206.1)
- [44] Digi- ja väestötietovirasto, PKI Disclosure Statement for social welfare and health care professionals' certificate, v. 1.0, 03.05.2018
- [45] Digi- ja väestötietovirasto, Certificate Policy for Population Register Centre's Service Certificate for the Social Welfare and Healthcare Sector, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.208)
- [46] Digi- ja väestötietovirasto, Certification Practice Statement for PRC Server Certificates for the Social Welfare and Healthcare Sector, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.208.1)
- [47] Digi- ja väestötietovirasto, Certification Practice Statement for PRC Server Certificates for service use in the Social Welfare and Healthcare Sector, v1.0, 03.05.2018 (OID: 1.2.246.517.1.10.208.2)
- [48] Digi- ja väestötietovirasto, PKI Disclosure Statement for Population Register Centre's Service Certificate for the Social Welfare and Healthcare Sector, v. 1.0, 03.05.2018

Issuing Certificates signed by VRK Gov. Root CA

- 11 The full annual audit covered the service provided under the CA certificate:
- Issuer: CN = VRK Gov. Root CA, OU = Varmennepalvelut, OU = Certification Authority Services, O = Vaestorekisterikeskus CA, S = Finland, C = FI
- Serial No.: 01 aa 97 (hex)
- Valid from: 7. December 2015 10:12:34
- Valid to: 18. December 2023 14:51:08
- Certification Authority: CN = VRK CA for Service Providers - G3, OU = Palveluvarmenteet, O = Vaestorekisterikeskus CA, C = FI
- Information on Algorithm: sha256RSA
- Public key (ASN.1-notation): 4096 bits
- ```
30 82 02 0a 02 82 02 01 00 b4 af ae 91 c5 27 d9 a5 d7 a1 c5 41 97 1c dc 35 fo a4 01
8d 80 e7 95 82 48 ef 9e 8c 09 3c 14 29 50 83 b6 a4 c9 1c 26 19 a7 fd f8 57 05 3f 66
61 3c 1f b3 a8 70 ce 00 a2 ob c2 f3 4d bb 33 5a 44 d2 65 5d 75 4f 76 1c 8b be oc 6e
25 df 4e 34 35 39 9e 59 f5 55 fc 65 dc 2f 60 oe 38 b4 59 a3 07 13 1f 3c 9c af ff a2 5c
72 14 44 9d c2 41 34 db o8 6d 2b eb 52 46 49 5e 5b 19 74 o6 5d od 9f 86 5f fd a2 f7
```

77 b8 60 38 7f 6a fo fo 43 81 81 d6 eb 16 d4 fo b2 49 fd 13 ge fe 30 27 fb 18 fi 68  
 f6 ee 3a e3 9d 88 52 od a7 2b 6d 52 65 37 e2 c5 de f4 79 76 e6 48 a1 ce 67 bo o6  
 5a 4d 38 54 99 ed 7d 1b 2a cc od 38 aa ao 61 14 5c 10 e3 db d5 89 bb c2 56 45 3d  
 b6 e5 45 84 b2 72 12 8c c3 5a ff d4 c5 f2 20 39 5a 50 a7 b4 a9 95 b9 1f 6e 63 f8 o2  
 d3 a5 35 3e 18 e9 c2 a9 49 be 33 b1 eb 4b ec 69 6c 2b 14 aa 74 6d 7d 93 5c 8c f6 eo  
 dd d2 28 3f fg b6 9a be 6e 2f oe 8f 22 ae 49 13 57 e4 fg d8 5b o1 2a 51 c5 2b 3b eo  
 bd 85 56 be f8 51 6c e8 d5 39 6c 3f 85 43 3a fd 26 a7 cb 21 6e 53 c1 86 34 a6 16 cf 7f  
 cb 71 79 94 3b 29 2d oo d3 de 19 c5 9d c4 6f 5e o8 33 56 de b7 4a 31 6d 9e 7f e9 40  
 63 ff 32 ob o8 97 45 32 18 70 80 2f 52 82 af 23 bb b4 e1 6f 8b a7 65 db 3c e8 bb ba  
 dd cc 98 f4 bd o2 9a e5 d3 1f f2 6e a3 71 42 ed 15 d8 54 8d a4 41 b2 1f e8 e4 8a d2  
 60 69 4f 2a cc 22 eo 6e 6e 97 fb 93 91 ef a6 85 bd 66 19 34 d5 73 71 bo be 13 f2 c1  
 51 dd e7 79 5b 44 cc oo c4 61 c6 o4 57 6a 23 7c fg e1 98 2b 87 ef 24 9e 69 69 ca 30  
 8f e5 bo 49 c5 13 fb 77 f6 30 15 6d fg f8 39 78 o1 e8 67 47 14 63 4b 47 2e 5d 3c 3c 41  
 41 a5 79 70 13 o4 94 72 77 76 7f d4 5f o4 a8 a9 o2 o3 o1 oo o1

Thumbprint of the certificate (SHA256):

b750a125f5fb285bfe5cc1ff2d97138875dbcec75ab678124c270e26d8c19a8e

- 12 This service is referred to as "Population Register Centre's server certificates". The service issues certificates for website authentication. The documents governing the service are identified above, cf. [1], [2], [3], [4], and [5].
- 13 The full annual audit covered the service provided under the CA certificate:

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

Serial No.: 01 af 8b (hex)

Valid from: 7. December 2015 10:21:01

Valid to: 18. December 2023 14:51:08

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

Information on Algorithm: sha256RSA

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

30 82 02 0a 02 82 02 01 00 c4 66 57 fd 60 b9 8f d3 6c 64 68 f1 oa 26 41 37 85 fe  
 db c9 8b 9f f5 4d a4 68 4d 80 5f 59 ef e4 a3 45 eo d1 da o7 fb 9c od 5d 9b o2 58  
 6e a3 4d b6 86 o5 ec 73 11 od ob f1 c5 de ac 19 a3 9c 7b 6b f3 4b d6 eb o8 8c c3 e5  
 8d 6d 49 f8 9e 28 2a 31 1b 58 f8 7e 7e 82 24 4a 8b 7e 3d 9e 4e oa e5 4d 69 a6 3e  
 58 83 f2 8e 5e o4 e9 7e 6a o2 e6 fa ad 85 26 aa c9 6d ba b5 79 48 82 28 8a 6d bo  
 6b 5a 66 60 9a 3b fa fb cf f5 86 1a 44 69 e3 3c 82 77 36 3c ee 6d od c1 e3 87 27 24  
 8b ee 95 74 41 43 f5 do 8e a1 o6 dc c9 25 7c 8a o5 a5 54 cc 48 a4 9c o9 70 9e 94

6b cd d8 1d c4 9a 5e 90 06 19 20 27 fe d8 6a 45 e7 6a 53 ac bo co 9c 6a db 15 23  
 47 1c c6 5d a4 93 ef a4 00 47 56 72 7e 6b 56 d2 od 1d cb 29 ad e9 cc b7 ce 28 5a 96  
 58 14 oe 51 42 fc db oo 7b 5a c3 ce b8 d5 e1 ab 9c 2c c1 78 oa 73 do 41 2b 73 80 8e  
 6a 55 58 4f 92 64 of db f6 c5 18 b2 9d e3 42 26 e4 b4 e7 c1 5d ce 5c 7d 56 oo 27 75  
 ce a6 f9 86 ed ba 05 fb ae 09 33 62 98 ca 21 2c 96 c9 e2 d7 fe 1c fe 66 53 04 11 df  
 e7 51 80 4f f9 f5 56 f1 d2 1c ba oo 73 9e 46 ae bo f5 5b bo 1e 04 2d 51 54 03 98 1e  
 f6 1b fo 2d ef e6 2d 72 bd 1a ad 79 98 8e 83 f7 8e db a4 eg 1a e7 99 5a 7d 88 b8 ca  
 41 ff c8 3b 45 d5 c1 38 03 eo 83 2a e2 84 53 1e 32 6a b5 b1 ac c9 51 51 29 97 12 98 f2  
 13 07 6f 3a 8c 3e 05 eo 9c 5e 59 ad db 98 b9 4c 90 8f 3e e4 8a b2 21 80 55 65 2e  
 40 8c 31 05 ee 30 d9 1d f9 cc 8d 05 ba dc a8 4e a9 f2 d5 70 41 41 50 72 37 49 3f 09  
 oo of 54 e2 5b 37 91 ao 26 70 9b ee oe o8 42 ea 76 d8 f4 1a 88 25 b2 16 ag af 4e  
 eg 6a 46 9d 28 20 06 d5 05 42 5a ef 02 3a ad d9 23 cf 06 10 d6 df ag d3 02 03 01  
 oo 01

Thumbprint of the certificate (SHA256):

7dca925e39e2a45c8e61faeb7d9a8701dbaod29ffee9797465207cfaofcb4b01

- 14 This service is referred to as “Population Register Centre’s Service Certificate for the Social Welfare and Healthcare Sector”. The service issues certificates for website authentication. The documents governing the service(s) are identified above, cf. [6], [7], [8], and [9].
- 15 The full annual audit covered the service provided under the CA certificate:

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

Serial No.: 01 aa 95 (hex)

Valid from: 21. November 2013 13:14:33

Valid to: 17. December 2023 23:59:59

Certification Authority: CN = VRK Gov. CA for Citizen Qualified Certificates - G2, OU = Valtion kansalaisvarmenteet, O = Vaestorekisterikeskus CA, C = FI

Information on Algorithm: sha1RSA

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

30 82 02 0a 02 82 02 01 00 d4 aa 75 b2 e7 1a f7 a4 70 58 62 96 a9 1a c5 55 28 29  
 6e 17 db bf f8 57 3c 02 3f 9f ec 40 74 82 36 ed 4d 62 c9 21 57 ce 95 9a e5 f7 fc 50  
 65 a1 1c f8 18 c5 b4 31 64 47 08 dd ec 77 d9 56 23 c2 dd c9 63 de 7f 60 7e 19 fe 2a  
 e1 25 fd 8f de 47 dd ad 9f 29 3a fo 42 12 of 29 36 2e oe 5d dd f8 32 c8 86 dc ea do  
 2e oa 77 23 3a f5 48 70 82 eo b2 6c 8b od of 17 16 1d e8 ob 74 fb f2 23 7c 85 59 71  
 e6 75 70 ob cf 89 53 fb f8 58 aa 15 f2 fb 65 97 1d c1 6f cb ca 04 d6 6e a1 30 ff 56 76  
 fo 50 22 ao 15 93 51 cb e3 2f e8 03 d6 4b 9d bb 98 1c 57 a1 dc 7b 98 93 ac 09 33 de  
 5d 40 b6 21 d7 1e 94 e4 2f 1a 39 6a 9a 3c aa 71 a3 fd 80 90 05 69 6b e7 12 54 62 23



b2 6d de c5 d3 03 c0 22 54 38 67 e2 51 b2 10 02 9a e8 23 d9 62 d3 f5 9b 51 4b 02 76  
 6a 4f 2a a7 3e a8 61 86 b4 d1 fd 76 df df e7 42 59 bo e6 21 a2 3f 36 aa 4e oc e8 50  
 04 c8 eb 65 52 1d d5 c3 84 30 4a 4d f6 50 22 ce 91 26 3f e5 69 ad 58 ac 3f 95 24 6e  
 1f 27 37 47 f8 43 08 30 21 c7 4a df 77 65 48 12 d3 41 fe 2c of 49 4d ae 94 fo df 38 fe  
 od do f4 3f 59 31 24 7c 23 b3 12 52 31 62 8a 1a 8c c1 09 46 oa cb 65 47 2b d4 4b 2c  
 29 a3 59 aa 98 b5 c9 1f e3 e3 bc 12 of 77 55 8b 5c 05 77 06 2a 8d ed 74 a3 7d 35 f8  
 4b 32 32 of e1 db 3f od c6 dd 29 36 cf 2b b9 56 oc 1f 46 6f 2b 2d 87 oa 4d 14 6a 97  
 c4 3b 3f b1 ob b5 72 ca 64 6d 46 cd 6a 6b 96 c6 52 90 b9 a4 ca fc ee 90 33 64 02  
 ed 6b 12 1e ee ea f9 e4 28 98 2e 39 e4 03 c4 fo 8d fe 11 f9 65 58 d6 b4 c9 26 dd 58  
 48 78 de 53 a4 e8 f8 b9 f2 29 64 b1 f4 e2 be 38 a6 95 af f7 58 15 9e 68 31 f1 41 b2  
 22 of bf 70 26 50 b3 d1 5b 42 83 67 7f e1 f7 fc 95 02 03 01 00 01

Thumbprint of the certificate (SHA256):

8263c4ec2befeb26bdd833f77873cc8ec59d934a16282c2bo848cda2afda8eb5

- 16 This service is referred to as “Citizen Qualified Certificates – G2”. The service issues certificates for authentication and nonrepudiation, where the private keys reside in a secure signature creation device. The documents governing the service(s) are identified above, cf. [10], [11], and [12].

- 17 The full annual audit covered the service provided under the CA certificate:

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

Serial No.: 01 a6 55 (hex)

Valid from: 27. October 2010 13:41:26

Valid to: 17. December 2023 23:59:59

Certification Authority: CN = VRK CA for Healthcare Professionals Qualified Certificates, OU = Terveystieteen ammattivarmenteet, O = Vaestorekisterikeskus CA, S = Finland, C = FI

Information on Algorithm: sha1RSA

Public key (ASN.1-notation): 2048 bits

30 82 01 0a 02 82 01 01 00 af e1 db 88 83 21 c5 bb d3 ee 7e e5 17 80 e9 9c ed 48 09  
 15 c4 52 57 8d e9 ea 3f fe cc e6 6e f3 8d 7c d6 89 b6 32 a5 cf aa d8 18 c9 47 d6 6d  
 c3 35 59 42 9f 94 55 1e 45 db f6 93 42 c5 76 28 a8 15 74 d1 13 bf 47 2e e7 13 2d 1d 07  
 f6 55 95 c9 3c do 25 08 1e d2 b9 b1 80 bd 44 a7 b4 61 26 b7 c5 02 80 e7 18 4f 15 cc  
 ba c3 19 84 ea 37 aa b3 4a f7 d9 2f aa bd b5 14 e5 57 a3 1d 37 d4 f9 c4 eo 87 02 e2  
 13 45 cb co 14 e3 2b 97 17 f1 2f 20 18 7b 19 be 02 54 bc 80 ff 83 de 25 e8 06 8e ob  
 7c 4e 55 27 b3 19 65 b6 54 98 9c 31 49 75 9f f7 4d a6 34 2c ca d7 a7 d3 74 d1 8c 65  
 88 e5 38 36 ef 03 59 bc 66 do 66 3c 2e 5d 69 1b f8 dc co 1b b9 5c ab 85 b3 09 bf

52 a7 f7 46 f8 6e 40 01 e5 3f 25 6b 7b 7e 66 9b 43 1c 45 4a 3b fb b2 od 24 ao 90 b1  
5a 44 5d 85 79 od 44 bd f7 da a4 50 63 02 03 01 00 01

Thumbprint of the certificate (SHA256):

c273fado43930eb4f5f5202f5a92ead935157fdd73e29f807a95boe42c16of99

- 18 This service is referred to as “Healthcare Professionals Qualified Certificates”. The service issues certificates for nonrepudiation where the private signing keys reside in a secure signature creation device. The documents governing the service(s) are identified above, cf. [13], [14], and [15].
- 19 The full annual audit covered the service provided under the CA certificate:

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

Serial No.: 01 aa 96 (hex)

Valid from: 21. November 2013 15:20:58

Valid to: 17. December 2023 23:59:59

Certification Authority: CN = VRK CA for Qualified Certificates - G2, OU = Organisaatiovarmenteet, O = Vaestorekisterikeskus CA, C = FI

Information on Algorithm: sha1RSA

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

30 82 02 0a 02 82 02 01 00 be d9 c9 cc 73 ob 39 4b 8d b4 69 aa 1e 12 cf d7 c4 41  
96 33 3f ad 2f 98 fc ff 86 a8 9b 7b e2 62 9b 07 0a 7c 7a 21 76 2e 12 4e 79 ae do 1e  
6f 66 ef 30 9c 74 ad cd 31 07 7d 95 b1 74 35 f9 69 78 64 oe 04 d9 9b 3c 1a 9f 89 3f  
b8 b7 b4 49 4f 8e bb b5 fa 75 08 5e 50 1a bc b6 be a1 77 4b 47 41 66 ob 98 28 d7  
2a d2 03 73 39 0a bf 0c 03 ao e8 e5 8b d8 dd cb aa 1b 32 da 28 c4 26 cc 4c cd d1 87  
93 e6 00 ed 25 cc e7 76 74 16 0a 47 5e e6 81 85 7c 44 82 22 f7 37 d4 3e 98 52 26 a7  
c2 ao db f4 9d e2 9a 67 eo 35 19 aa 2e 7f 36 cd do co 4e e4 72 bb 8a 43 3a bo 3a  
a1 5d 9a 62 1b 5f e2 of 2b ea 77 1f 91 c6 46 90 c3 fe 5e de 41 88 ob bd 4e 30 19 70  
25 6b 58 ec 76 3e b8 e4 43 e8 9c 75 38 96 44 da 37 e5 40 8e 11 75 9b 22 9f fa ac 5c  
oc 2a fb 90 c1 93 a2 ce dc e8 7f 18 b6 97 c8 f3 9a 20 85 47 3a 7a fb 71 67 58 76 5b  
fo 59 4c e9 54 d6 92 bf d7 71 c7 c9 da 97 be 16 4f 7d 3d 4f 38 94 41 c6 db 59 68 5b  
83 3c d9 6b ac bb 35 57 ef 7d fe 47 82 93 82 96 5e cc 00 a1 3d 64 84 d2 59 fc e9 ec  
34 32 bb 16 8c 4b 2f 14 a6 d7 3e 24 a4 4e 9f a3 e2 93 ef bo e3 4a ao bd 1a 44 do d9  
ac 3c 77 7e e1 10 5a bo 5c be fe b4 97 78 c6 2a 9d e9 aa oe d2 60 34 cb ef 24 90 5e  
06 15 f7 23 a6 1c a6 9e 7f 65 98 19 a3 cc 5d 3c 55 e1 79 88 2e 46 e8 97 06 f5 de fa  
e6 58 54 5d d9 68 da a5 6f b9 bc fe 13 6e e3 3a f8 f4 f7 90 53 aa 14 b9 fc 9d ec f8  
7e 32 09 ef 74 66 0a 1e 84 62 9b 98 d7 bb 37 e7 6f 13 a2 b4 d3 d9 a2 15 42 31 33 92  
c7 c5 64 c3 of c8 2e 98 5d a4 cb 95 21 06 f1 31 f9 73 fo 7a ao 71 oc 89 21 80 68 37  
80 26 13 96 6f 2e 5d dd 40 fo 8a ed 23 ao bd a2 9a 93 d6 09 02 03 01 00 01

Thumbprint of the certificate (SHA256):

a5dfc5ad09b2f66a68ef0fb3b4bdaa42aa3add6f3e7bbfcbdfd27fc7ccd9f3d8

- 20 This service is referred to as “Organization Qualified Certificates - G2”. The service issues certificates for authentication and nonrepudiation, where the private keys reside in a secure signature creation device. The documents governing the service(s) are identified above, cf. [16], [17], [18], [19], [20], and [21].

- 21 The full annual audit covered the service provided under the CA certificate:

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

Serial No.: 02 02 ac (hex)

Valid from: 3. May 2018 14:09:59

Valid to: 18. December 2023 15:51:08

Certification Authority: CN = VRK CA for Temporary Certificates - G2, OU = Tilapaisvarmenteet, O = Vaestorekisterikeskus CA, C = FI

Information on Algorithm: sha256RSA

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

```

30 82 02 0a 02 82 02 01 00 d7 fa 78 oe cd 74 cd 27 d7 4b 21 38 of 12 3e 27 72 4a 8a
4b 5a 51 00 72 6c b2 8d a6 co 45 dd f9 11 b3 60 99 b1 55 d5 2b 32 84 ce 67 cb 02 a3
ab f2 48 do 18 35 00 e7 ed 3b 12 fc 01 39 2e e5 33 00 06 10 af do 9e 30 41 5d 43 97
da b4 52 f5 b6 5f a5 8d cf 23 5e c7 ac 93 7a ad 4c aa e5 5e d4 8d 22 7c ad b1 ea cb
59 bo co dc 4f e6 bf db 1e eo 7e cc c4 69 ed 63 fd 2b c3 oc 3d 73 22 2c 52 c8 c2 5f
da 13 a5 30 12 aa de c2 37 of db 86 aa oe 5e 91 6c 79 8e f7 2c 64 eo 65 54 6e 1c 4c
33 24 ce 52 3f 97 c8 1f 11 fe bf f9 60 2f c1 d7 ff c7 ob 3d 4c db aa cf e2 8e 2c c1 d4 42
3c 67 cb f9 oe 37 d5 63 21 70 9a ba 81 fb 09 b3 12 63 05 c5 25 9e aa 5a 57 58 08 e9
f1 03 cc ca 5e 34 2e ba 03 6e e7 19 b1 ac 35 7a 99 67 50 c1 08 8e 66 74 81 00 bd 32
fa b3 3f a1 ob 06 b8 43 4f e8 6b da 67 16 76 67 7e 86 81 ec 8d 70 2e 10 99 fc 1a 9b
66 78 7b cd 1c 31 46 4a 71 6c b8 b4 8e 77 1a 84 5f 83 20 8c c8 29 57 8a b4 4a f7 c4
41 b8 10 19 3b e8 2a f9 eo ca 58 ed 6d 93 5f 09 17 d1 od ae 93 76 41 of a5 60 8e a3
e2 2f of e3 9b 5a eo 82 4f a3 48 1a da 12 ad 71 c5 05 5f d4 08 14 co e5 3c b8 95 ec
6f ba a3 38 aa 4b ob c6 e9 7d 30 9f a3 e5 62 a6 23 b2 76 bb d4 ef 60 03 od co 36
8e a3 ee 34 29 7c 86 fi f7 f4 ec 74 7c 84 46 c1 58 02 77 8d 96 1e 04 oe 9a 2a 40 ef
4d a4 02 46 e4 co a3 97 eb 69 03 c3 16 79 43 db 73 ob f8 7d b5 64 bo 26 of 5e 9c
47 03 fa 51 52 oe 97 23 48 cb 4f f8 e7 63 35 41 95 od 57 33 12 18 6f e8 22 a6 11 3b f7
7d a6 f8 7f aa 79 8b bf 04 04 c5 ce 81 od bb 54 03 2f 59 3b 03 4e c9 6a 8c od be
25 91 a1 54 c6 b1 73 7e 13 23 bd 5f c2 de 70 eo db 02 03 01 00 01

```

Thumbprint of the certificate (SHA256):

co1bod65e087050d2f88bb14351c8a573044c1e16e0de5cc562693a2cd8adafdf

- 22 This service is referred to as “Population Register Centre's temporary certificates”. The service issues certificates for nonrepudiation and authentication where the private

signing keys reside in a secure signature creation device. The documents governing the service(s) are identified above, cf. [22], [23], and [24].

- 23 The full annual audit covered the service provided under the CA certificate:

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

Serial No.: 02 02 ad (hex)

Valid from: 3. May 2018 14:19:36

Valid to: 18. December 2023 15:51:08

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

Information on Algorithm: sha256RSA

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

```
30 82 02 0a 02 82 02 01 00 b6 93 bc d7 b8 08 51 f1 73 67 41 79 d8 2a a4 c2 d6 dd
b3 60 97 60 05 68 f9 67 58 44 1b 1a 5b 39 9e 28 11 18 c1 2b 08 3d 6d 4c cc f9 fo 5e
07 cf 95 62 35 28 fd 24 01 79 cf d6 3b 40 2f 6c 81 02 4f 3c 84 97 60 f8 da 2b 98 2c
d1 21 6b db 41 f4 fb 88 c7 5f 92 36 18 84 fo 08 ao 28 ab 97 dc 6e fe fc 4b e7 c5 7f
oe 00 86 6c 75 45 15 05 f3 b7 62 of 71 e2 97 5e ce a4 ef b4 ce oc b4 ao ea c3 19 8c
76 33 cb ec 13 02 a4 af fb 5f 36 e1 3b 17 47 06 5c oe 38 6a 52 4e a4 63 ba ag e9 98
59 92 b4 e7 7a d9 05 cc 51 46 04 16 1a f4 4f 96 cf d7 oe d7 6c 3c 52 ec fa fd 1b 28
8f e3 8b 7f 24 fo 9e eb e4 6f 6d f3 eb b8 05 6d a6 54 f6 92 2e 5a 90 7b 92 02 85
94 5b 53 20 37 co fa dd 1e e1 06 9c 18 86 b3 a2 41 f9 b5 b4 e5 31 dd 3a 19 92 15 28
35 34 a2 6e 6a 45 12 87 14 co f4 44 52 4b 29 bf dd f1 ea f1 26 81 5a 9c 21 b8 28 b7
8b d1 96 cf 23 e6 7c 98 f5 3e b9 5a 03 1c eo 77 18 d2 ff 3d oa b9 b2 4e 21 86 e2 do
9c 7a 3a 20 36 e7 3b d2 do ea 65 05 ed ac 99 57 ec 3d c5 87 05 eo of 14 56 5b 94
a3 4e c4 5a da cf ff 52 co 7f f2 6e 71 c2 6a e6 09 fd ea 64 40 ed 30 bb 70 e7 1d 25
od b4 c7 c3 36 d1 ac 1f cc 91 bb 46 aa 8f oe c8 1d e7 15 34 27 d5 ee ba 08 35 3b 67
07 85 36 c4 b9 8f 50 12 04 c9 5c a3 d7 c4 ao 73 9d d4 84 3b 17 22 9d 22 34 92 4a c6
d7 53 b8 fd fc 82 9e 6c 21 32 fd e3 ae 85 05 97 b3 f1 5f ef 4c 41 72 26 31 65 d3 be 78
cb 10 ab c4 ba 98 62 80 81 58 58 64 4a 3f 83 af 1b 6e 70 77 d3 01 fo 8e 3f e8 59 16
56 28 8f 10 ob 3e 23 46 ca c1 52 40 08 8a 69 3e e5 21 ca 73 b9 82 30 eb 62 1d 69 dd
7a 63 57 2c d2 6a af c6 92 a3 47 c8 9b 9c 9d 8e 45 e8 e3 02 03 01 00 01
```

Thumbprint of the certificate (SHA256):

61f660851b6a5524def0cb9e9ea56f688a800df9ea1829cc6do2982072b1afa5

- 24 This service is referred to as “Population Register Centre’s temporary certificates for social welfare and healthcare professionals”. The service issues certificates for nonrepudiation and authentication where the private signing keys reside in a secure signature creation device. The documents governing the service(s) are identified above, cf. [25], [26], and [27].

- 25 The full annual audit covered the service provided under the CA certificate:

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

Serial No.: 01 aa 8b (hex)

Valid from: 12. November 2013 10:09:06

Valid to: 17. December 2023 23:59:59

Certification Authority: CN = VRK CA for Service Providers - G2, OU = Palveluvarmenteet, O = Vaestorekisterikeskus CA, C = FI

Information on Algorithm: sha1RSA

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

```
30 82 02 0a 02 82 02 01 00 b5 d9 3b e4 4f 3e 60 2f 74 e0 06 96 20 76 f3 7d d4 18
a3 86 0c 0a 1c 30 17 5b 99 3c 53 cd 46 24 8b 01 fa e7 dc 5e 32 3f 5d e0 73 b4 e5 c2
cc 59 8b 9f 50 d7 98 f7 13 62 c9 b8 27 b4 b9 02 b8 b7 43 eb 63 f2 5e 67 87 f8 25 28
4f e9 cf b8 90 31 eb 15 09 e5 0b 2b 65 28 bf b8 a9 fo 70 5a 59 78 2d fa b9 35 fb 59
8b b5 63 55 61 f3 fo ec 1d 7b 46 89 db 7f 95 cd f8 81 44 53 86 72 e1 1c 96 99 29 84
08 b3 f8 ef 5b de 72 61 7e e9 2b 92 9c od 1f 57 ba 01 b1 f5 43 70 16 2e 53 30 c5 28
fd ed 29 af 63 oc 21 b6 37 78 3a 45 21 5f 71 95 50 e8 86 73 60 2a 4d 43 bf 50 eb b5
c1 ed 70 4e 42 35 4f 76 95 32 c7 98 42 e1 ce oc 23 cf 04 cf 61 29 d1 7d de oa 59 b8
9b 7a 12 71 9c e9 bc 2e 4a 6d 59 b8 ca e1 8c a3 od 29 12 96 8f 9b 85 72 f9 46 ee c3
cb 5a fa b9 3d f8 bd c5 d1 d7 39 2f 87 f6 74 2f 58 26 18 ef a9 b8 aa 1e db 1b be ab
a8 a4 1d 52 61 15 4f fc 08 25 bo a1 58 1d of 43 4a 73 1a a5 57 ab e5 ee 2f 64 90 f3 95
c3 4b d4 14 d9 a3 41 f9 c7 4c 41 32 70 e6 fc 5c 42 9b 04 76 2e d8 ec 6e 6a 51 c8 c5
92 54 e4 3b e4 e1 4d 8f oa 34 04 85 ae 18 e3 50 45 e7 78 2d 86 cd 6a do 76 4f d3
e7 75 8a 97 4e d8 9b 70 12 80 d7 a3 17 f2 e7 b1 5b 59 25 f4 f9 c1 a7 2d 90 18 4c 85
e3 9d d6 05 c9 08 6b a3 e8 02 3d bd 59 e8 73 b6 50 bc c1 5e e7 65 94 59 9c 4c 93
04 6e 45 58 6b 2c 08 7b 9f a6 f2 94 e9 26 f7 68 2c 4f fo 66 76 e3 52 05 44 62 23 13
25 6c ob co 3b 12 dd oo of oe 17 54 oe e9 35 1f a1 6e 2b 81 11 01 2f 1d 43 60 e7 6f
6d f4 52 02 36 93 ff 13 a8 a8 ab 1c 14 73 4f 29 45 82 aa 57 97 e6 da 3e 13 6e 8c 45
68 d8 d6 1a 84 48 41 39 1b 61 a6 e6 ba 9c 5c bd co 77 89 02 03 01 00 01
```

Thumbprint of the certificate (SHA256):

```
41d2e6f4678d2428045083aco74a2ad6oef2f811ba06e1963fe319b2ff67c137
```

- 26 This service is referred to as “Population Register Centre’s server certificates”. The service issues certificates for website authentication. The documents governing the service(s) are identified above, cf. [1], [2], [3], [4], and [5].

### Root Certificate VRK Gov. Root CA

- 27 The full annual audit covered the root CA certificate, which issued the aforementioned subordinate CA certificates. It is identified by

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

Serial No.: 01 86 a0 (hex)

Valid from: 18. December 2002 14:53:00

Valid to: 18. December 2023 14:51:08

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

Information on Algorithm: sha1RSA

Public key (ASN.1-notation): 2048 bits

```
30 82 01 0a 02 82 01 01 00 b0 85 15 da c8 03 37 d0 a3 46 37 6c 1b 1e 96 30 c2 5a
85 12 67 23 f2 bb 9f e7 8a 81 60 27 f8 13 a9 3c bc f7 86 aa aa f4 f3 25 29 b4 fe 75 ae
1e 81 86 8a 05 b2 1d 65 b2 38 e8 b4 cc 28 9a fb 17 36 f1 93 d5 79 ce c1 83 8b 21 4f c3
od ad 41 df 78 9d 48 e3 1f 42 44 fc 3c 6d 21 20 6b ad 22 84 24 42 8f 17 4d c2 50 1f
64 cd 2d 39 22 56 88 fd b2 63 9d 54 da 42 69 c0 c8 4f d7 18 e2 3e c8 69 84 94 3d
2c 80 c6 7c ce bd d7 53 1f eb 88 b9 a6 cb bb 85 57 ef 57 76 5d oc 8b d3 5e 12 41 9f
21 c0 39 f4 26 6d 08 fa 38 b3 a1 77 b1 ee 16 d8 d0 68 da b4 98 a5 a0 65 46 4a 6b
8d 7e aa 4d 60 b8 f8 c8 od fc 71 3e ee 39 87 81 b4 d9 f8 6e 90 ee 3f oe 61 d7 1d 2b
68 e6 2e e1 42 44 26 78 2c 58 f2 7d 16 7f 61 c0 49 24 2a 89 87 b6 5d 2f 29 19 f8 a6
e7 8e 52 9e 41 4b 5a oe aa b8 c2 66 42 53 02 03 01 00 01
```

Thumbprint of the certificate (SHA256):

```
foo8733ec500dc498763cc9264c6fcea40ec22000e927d053ce9c90bfao46cb2
```

28 The audit was completed successfully without critical findings.

29 For contact information, see page 2.

### Issuing Certificates signed by VRK Gov. Root CA – G2

30 The full annual audit covered the service provided under the CA certificate:

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

Serial No.: 03 od 43 (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

Thumbprint of the certificate (SHA256):

39a835b14b6b6313f778371c79cb434dd518c8fd325b749d9be669dff20384e8

- 31 This service is referred to as “Citizen Qualified Certificates – G3”. The service issues certificates for authentication and nonrepudiation, where the private keys reside in a secure signature creation device. The documents governing the service(s) are identified above, cf. [28], [29], and [30].
- 32 The full annual audit covered the service provided under the CA certificate:

Issuer: CN = 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 02 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 05  
1a oe a2 f2 ca 95 fd 5d 07 bo 10 8f df 4f 21 cc ao 57 9d fa 52 bo 98 72 61 3c 36 do  
db 8a cd d3 03 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 05 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 04 78 82 58 of oo 48 54 24 05 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 ag 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 07 55 29  
7d 8c 35 ef 72 ab 99 2e ee 02 ff 68 b6 82 aa e6 ce 72 b7 oc 74 59 ce be 4c of c3 01  
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 03 01 oo 01

Thumbprint of the certificate (SHA256):

9c0b9ebea95590dofafe4a46c62e49ddoba6cco8of89019a23d037e1a4c1b5b

- 33 This service is referred to as “Organisation Qualified Certificates – G3”. The service issues certificates for authentication and nonrepudiation, where the private keys reside in a secure signature creation device. The documents governing the service(s) are identified above, cf. [31], [32], [33], [34], [35], and [36].

- 34 The full annual audit covered the service provided under the CA certificate:

Issuer: CN = 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 ag 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 oo e2 b1 1d 5b e3 15 6e c4 9a 56 oa 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 o2 2b 96 55 d4 eo 28 01 9f 48 28 e9 4e 97 58 7b ee 96 8a o8 a5 22  
 ag 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  
 oo 6f 32 ff 53 72 o8 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 oo 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 oo d7 33 87 c4 64 9d 90 31 c4 f6 d3 ca 9a 5b 8b o2 o3 o1 oo o1

Thumbprint of the certificate (SHA256):

1bd3870b842ff0a637284268017e18e455a7fd2d84468f3cdf7d587c7ab35c9d

- 35 This service is referred to as “Population Register Centre's server certificates – G4”. The service issues certificates for website authentication. The documents governing the service(s) are identified above, cf. [37], [38], [39], [40], and [41].
- 36 The full annual audit covered the service provided under the CA certificate:

Issuer: CN = 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 ag 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  
 oo 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 o8 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 oa d8 35 df fd 4e 1b 17 1a of ec oe do ee ag 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 o2 f6 e8 81
9f e2 ad 15 33 b1 7a 9b ca 76 53 ef 38 co fe 70 1e 44 9d o1 71 38 26 29 co db 2f d7
b7 4c 15 o5 36 b4 3f 75 4f 2b e8 ce d1 f7 1d 59 28 co 1a 22 c2 a5 97 o1 52 38 78 ae a3
ad 61 ea ec ce 5f 9e 8o o3 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
o1 3o 55 o6 f9 29 c7 4f 67 f1 fc 33 of 31 77 c5 d1 13 o2 o7 a1 oo d7 39 46 o6 66 ba
bc eg ff 92 1d b4 8e e2 6c 45 42 2e 83 b2 oc d5 d6 oo 9o 1b o6 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 o7 ee 3o o4 ao d7 b8 7e 6o 8d 1e o4 83 3e 2f fb oc 2c 53 94 1d 26 ed ea
c5 4a 88 85 2d 3e 12 62 9a 47 92 8o a6 7e c5 27 14 f8 89 ac bc 27 5b 6d e3 ae 8a 1a
a7 3d 8a cb 1b 65 53 be o4 bo 6c d9 2a 25 a4 3o d4 8a 31 41 63 29 a6 2c 19 af b2 1b
33 4a 8b 43 f6 d3 31 9d ao 13 d1 oo f1 b1 c3 5c 37 b1 b9 5d 7o 8f 39 e3 72 91 fe 67 4c
8a 6e d1 ob 3a o2 b5 4d d3 99 57 24 e8 ac 3c c5 97 o2 o3 o1 oo o1

```

Thumbprint of the certificate (SHA256):

```
oe839ee68b1eef721d31e62e589e692co318ofaadade48a71837c25o9ob3acc4
```

- 37 This service is referred to as “Population Register Centre's Social Welfare and Healthcare Professional Certificates”. The service issues certificates for authentication and nonrepudiation, where the private keys reside in a secure signature creation device. The documents governing the service(s) are identified above, cf. [42], [43], and [44].
- 38 The full annual audit covered the service provided under the CA certificate:

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

Serial No.: o3 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

```

3o 82 o2 oa o2 82 o2 o1 oo 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 o4 88 1b 93 24 64 85 9d 21 42 3o b7 95 49 d4 fc f7 8b f8
df 85 6f 4o a2 27 dc o4 6b oo 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 3o b1 cf oo 7d 27 fo 98 9d 8f b6
56 e9 58 32 24 14 28 o5 3a ef f9 d6 35 33 eo d9 7f 47 co 77 3o 68 4f 5f f3 ff dd 9d
77 4f e2 c6 19 bc 8b 79 b7 o1 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 fi 58 e8 6e b7 35  
 d2 o6 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

Thumbprint of the certificate (SHA256):

a6b34f7boe87446362bb1a2bf3ee95dd56d8ba97a9ffbo3df41031377ecdd6f8

- 39 This service is referred to as “Social Welfare and Healthcare Service Providers - G2”. The service issues certificates for website authentication. The documents governing the service(s) are identified above, cf. [45], [46], [47], and [48].

### Root Certificate VRK Gov. Root CA – G2

- 40 The full annual audit covered the root CA certificate, which issued the aforementioned subordinate CA certificates. It is identified by

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

Serial No.: 03 od 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 oe 2f 23 3b 72 7f 73 20 65 ao 5f 16 c5  
 7b 5e 5c 06 f9 66 73 20 82 f5 62 96 17 94 51 fe 9b 35 e8 f2 oe 5f 7f 21 95 1c 62 co  
 e4 f9 82 78 5c ef 55 co 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 co 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 eg 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 ag 63 82 cc 39 52 b1 ea a7 59 e3 a3 co 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 co 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

- 41 The audit was completed successfully without critical findings.
- 42 For contact information, see page 2.

## References

- (A) ETSI EN 319 411-2 V2.2.2 (2018-04): Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates; Part 2: Requirements for trust service providers issuing EU qualified certificates
- (B) ETSI EN 319 411-1 V1.2.2 (2018-04): Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates; Part 1: General Requirements
- (C) ETSI EN 319 401 V2.2.1 (2018-04): Electronic Signatures and Infrastructures (ESI); General Policy Requirements for Trust Service Providers
- (D) DIN EN ISO/IEC 17065:2013-01 „Konformitätsbewertung – Anforderungen an Stellen, die Produkte, Prozesse und Dienstleistungen zertifizieren“
- (E) ETSI EN 319 403 V2.2.2 (2015-08): Electronic Signatures and Infrastructures (ESI); Trust Service Provider Conformity Assessment – Requirements for conformity assessment bodies assessing Trust Service Providers, Version 2.2.2, 2015-08, European Telecommunications Standards Institute
- (F) ETSI EN 319 421 V1.1.1 (2016-03): Electronic Signatures and Infrastructures (ESI); Policy and Security Requirements for Trust Service Providers issuing Time- Stamps

## End of Audit Attestation