

Ernst & Young P/S Osvald Helmuths Vej 4 P.O. Box 250 2000 Frederiksberg Denmark Telephone +45 73 23 30 00 Fax +45 72 29 30 30 www.ey.com/dk CVR no. 30 70 02 28

To the management of Telia Company AB (Telia)

28 June 2019

Independent Assurance Report

Scope

We have been engaged, in a reasonable assurance engagement, to report on Telia management's <u>statement</u> that, except for matters described in the statement, for its Certification Authority (CA) operations in Finland and Sweden, throughout the period 1 April 2018 through 31 March 2019 for its CAs as enumerated in Attachment A, Telia has:

- b disclosed its SSL certificate life cycle management business practices in its:
 - <u>Telia Root Certificate Policy and Certification Practice Statement v2.4;</u>
 - <u>Telia Server Certificate Policy and Certification Practice Statement v2.4</u>;
 - <u>Telia Gateway Certificate Policy and Certification Practice Statement v1.6</u>;
 - <u>Telia Organizational User Certificate Policy and Certification Practice Statement v1.3</u>;
 - TeliaSonera Customer CA Certificate Policy and Certification Practice Statement v1.2; and
 - Telia Production Certification Practice Statement v2.6

including its commitment to provide SSL certificates in conformity with the CA/Browser Forum Requirements on the Telia website, and provided such services in accordance with its disclosed practices

- maintained effective controls to provide reasonable assurance that
 - the integrity of keys and SSL certificates it manages is established and protected throughout their life cycles; and
 - SSL subscriber information is properly authenticated (for the registration activities performed by Telia)
- maintained effective controls to provide reasonable assurance that
 - logical and physical access to CA systems and data is restricted to authorized individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity

And, for its CAs as enumerated in Attachment A

maintained effective controls to provide reasonable assurance that it meets the Network and Certificate System Security Requirements as set forth by the CA/Browser Forum

in accordance with the <u>WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with</u> <u>Network Security v2.3</u>.

Certification Authority's responsibilities

Telia's management is responsible for its statement, including the fairness of its presentation, and the provision of its described services in accordance with the WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.3.



Our independence and quality control

We have complied with the independence and other ethical requirements of the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

Ernst & Young Godkendt Revisionspartnerselskab applies International Standard on Quality Control 1¹ and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Auditor's responsibilities

Our responsibility is to express an opinion on management's statement based on our procedures. We conducted our procedures in accordance with International Standards on Assurance Engagements 3000 Assurance Engagements Other than Audits or Reviews of Historical Financial Information, issued by the International Auditing and Assurance Standards Board. This standard requires that we plan and perform our procedures to obtain reasonable assurance about whether, in all material respects, management's statement is fairly stated, and, accordingly, included:

- (1) obtaining an understanding of Telia's SSL certificate life cycle management business practices, including its relevant controls over the issuance, renewal, and revocation of SSL certificates, and obtaining an understanding of Telia's network and certificate system security to meet the requirements set forth by the CA/Browser Forum;
- (2) selectively testing transactions executed in accordance with disclosed SSL certificate life cycle management practices;
- (3) testing and evaluating the operating effectiveness of the controls; and
- (4) performing such other procedures as we considered necessary in the circumstances.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Relative effectiveness of controls

The relative effectiveness and significance of specific controls at Telia and their effect on assessments of control risk for subscribers and relying parties are dependent on their interaction with the controls, and other factors present at individual subscriber and relying party locations. We have performed no procedures to evaluate the effectiveness of controls at individual subscriber and relying party locations.

Inherent limitations

Because of the nature and inherent limitations of controls, Telia's ability to meet the aforementioned criteria may be affected. For example, controls may not prevent, or detect and correct, error, fraud, unauthorized access to systems and information, or failure to comply with internal and external policies or requirements. Also, the projection of any conclusions based on our findings to future periods is subject to the risk that changes may alter the validity of such conclusions.

¹ ISQC 1, Quality Control for Firms that Perform Audits and Reviews of Financial Statements, and Other Assurance and Related Services Engagements



Basis for qualified opinion

During our procedures, we noted the following that caused a qualification of our opinion:

#	Deviation	Relevant WebTrust Criteria
1	The Key Usage extension in the root CA certificates of <i>TeliaSonera Root CA v1</i> and <i>Sonera Class 2 CA</i> is not marked critical and <i>TeliaSonera Root CA v1</i> certificate's subject information does not include subject:countryName. This caused WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.3, Principle 2, Criterion 2.3 to not be met. However, Telia generated a new root CA, <i>Telia Root CA v2</i> , on 29 November 2018, which is planned to eventually replace <i>TeliaSonera Root CA v1</i> and <i>Sonera Class 2 CA</i> . Extensions, key sizes, and certificate policy identifiers (including Reserved Certificate Policy Identifiers) of the new <i>Telia Root CA v2</i> certificate conform to the Baseline Requirements.	Principle 2, Criterion 2.3 The CA maintains controls to provide reasonable assurance that the extensions, key sizes, and certificate policy identifiers (including Reserved Certificate Policy Identifiers) of Root CA certificates generated conform to the Baseline Requirements.
2	The subscriber certificates issued by <i>Telia Domain Validation</i> <i>SSL CA v1</i> contained wrong policy identifier until 25 June 2018. The certificates contained the policy identifier of the Organization Validated certificates (2.23.140.1.2.2) although the certificates were only domain validated. This caused WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.3, Principle 2, Criteria 2.5 and 2.14 to not be met. All the certificates with the wrong policy identifier have been revoked by Telia before the end of September 2018.	 Principle 2, Criterion 2.5 The CA maintains controls to provide reasonable assurance that the extensions, key sizes, and certificate policy identifiers (including Reserved Certificate Policy Identifiers) of Subscriber certificates generated conform to the Baseline Requirements. Principle 2, Criterion 2.14 The CA maintains controls to provide reasonable assurance that Subject information of Certificates conforms to the Baseline Requirements, including:
3	Before 9 August 2018 many organization validated subscriber certificates included an email address as an optional subject attribute in the Subject field of the certificate and the CA did not have controls to adequately verify the email address information. As a partly mitigating factor, the email address has not been included in the subject alternative name extension and the certificates have not included key usage purpose id-kp-emailProtection in the Extended Key Usage extension. This caused WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.3, Principle 2, Criterion 2.14 to not be met. Since 9 August 2018 email address has not been included in any organization validated subscriber certificates.	 Principle 2, Criterion 2.14 The CA maintains controls to provide reasonable assurance that Subject information of Certificates conforms to the Baseline Requirements, including: Other Subject Attributes



#	Deviation	Relevant WebTrust Criteria
4	 13 subscriber certificates with inappropriate locality names were issued to three different organizations by TeliaSonera Server CA v2. According to the CPS, locality name should be a city name, but in these cases locality name consisted of a country name or organization's postal office name. This caused WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.3, Principle 2, Criteria 2.14 and 4.2 to not be met. All these certificates have been revoked. 	 Principle 2, Criterion 2.14 The CA maintains controls to provide reasonable assurance that Subject information of Certificates conforms to the Baseline Requirements, including: subject:localityName
		 Principle 2, Criterion 4.2 The CA maintains controls to provide reasonable assurance that the following information provided by the Applicant is verified directly by performing the steps established by the SSL Baseline Requirements: Identity (SSL Baseline Requirements Section 3.2.2.1)
5	 Weekly security configuration reviews were not implemented for three tested security support systems until in October 2018 and therefore configuration changes of these systems had not been reviewed on at least a weekly basis during the period from April 2018 to September 2018. In addition, weekly configuration change report of one tested security support system had not functioned correctly and therefore its configurations had not been reviewed on at least a weekly basis to determine whether any changes violated the CA's security policies throughout the period 1 April 2018 to 31 March 2019. This caused WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.3, Principle 4, Criterion 1.8 to not be met. 	Principle 4, Criterion 1.8 The CA maintains controls to provide reasonable assurance that configurations of Issuing Systems, Certificate Management Systems, Security Support Systems, and Front-End / Internal-Support Systems are reviewed on at least a weekly basis to determine whether any changes violated the CA's security policies.

Qualified Opinion

In our opinion, except for the matters described in the basis for qualified opinion section above, throughout the period 1 April 2018 to 31 March 2019, Telia has, in all material respects:

- disclosed its SSL certificate life cycle management business practices in its:
 - Telia Root Certificate Policy and Certification Practice Statement v2.4;
 - Telia Server Certificate Policy and Certification Practice Statement v2.4;
 - Telia Gateway Certificate Policy and Certification Practice Statement v1.6;
 - <u>Telia Organizational User Certificate Policy and Certification Practice Statement v1.3;</u>
 - TeliaSonera Customer CA Certificate Policy and Certification Practice Statement v1.2; and
 - <u>Telia Production Certification Practice Statement v2.6</u>

including its commitment to provide SSL certificates in conformity with the CA/Browser Forum Requirements on the Telia website, and provided such services in accordance with its disclosed practices



- maintained effective controls to provide reasonable assurance that
 - the integrity of keys and SSL certificates it manages is established and protected throughout their life cycles; and
 - SSL subscriber information is properly authenticated (for the registration activities performed by Telia)
- maintained effective controls to provide reasonable assurance that
 - logical and physical access to CA systems and data is restricted to authorized individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity
- s maintained effective controls to provide reasonable assurance that it meets the Network and Certificate System Security Requirements as set forth by the CA/Browser Forum

in accordance with the <u>WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with</u> <u>Network Security v2.3</u>.

This report does not include any representation as to the quality of Telia's services beyond those covered by the WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.3, nor the suitability of any of these Telia's services for any customer's intended purpose.

Copenhagen, 28 June 2019

ERNST & YOUNG P/S Godkendt Revisionspartnerselskab CVR no 30770 02 28

Claus Thaudahl Hansen State Authorised Public Accountant mne19675

01

Guha Sunila Senior Manager, CISA, CISSP



Attachment A: List of CAs in Scope

The following CAs were in scope for the SSL Baseline Requirements and Network Security Requirements:

CA #	Cert. #	Subject	lssuer	Serial	Key Algorithm and Size	Digest Algorithm	Not Before	Not After	Subject Key Identifier	SHA1 Fingerprint	Other information
1	1	CN = Sonera Class2 CA O = Sonera C = FI	Self-signed	1d	RSA 2048 bits	sha1RSA	6 April 2001	6 April 2021	4a a0 aa 58 84 d3 5e 3c	37 f7 6d e6 07 7c 90 c5 b1 3e 93 1a b7 41 10 b4 f2 e4 9a 27	
2	1	CN = TeliaSonera Root CA v1 O = TeliaSonera	Self-signed	00 95 be 16 a0 f7 2e 46 f1 7b 39 82 72 fa 8b cd 96		sha1RSA	18 October 2007	18 October 2032	8f 9a 96 0c d5 eb fa	43 13 bb 96 f1 d5 86 9b c1 4e 6a 92 f6 cf f6 34 69 87 82 37	
	2	CN = TeliaSonera Root CA v1 O = TeliaSonera	Sonera Class2 CA	00 87 ed 2e 1a 28 26 4a c5 19 aa 3a eb b9 0d a2 cb		sha256RSA	5 December 2014	5 April 2021	8f 9a 96 0c d5 eb fa	9f f6 1d eb b4 ed 26 3b 4d be c7 79 87 ca 49 3c 6c c9 3a a4	
	3	CN = TeliaSonera Root CA v1 O = TeliaSonera	Sonera Class2 CA	00 d1 e0 3e 5b 48 ed c7 9e 09 3f 40 de e1 61 c3 8b		sha1RSA	18 October 2007	17 October 2019		f4 67 16 7f 48 8b c8 34 66 38 88 a6 9a db 4c b9 74 16 d6 06	
3		CN = Telia Root CA v2 O = Telia Finland Oyj C = FI	Self-signed	01 67 5f 27 d6 fe 7a e3 e4 ac be 09 5b 05 9e		sha256RSA	29 November 2018	29 November 2043	87 f6 fd ac 1d 9e d6	b9 99 cd d1 73 50 8a c4 47 05 08 9c 8c 88 fb be a0 2b 40 cd	
		CN = Telia Root CA v2 O = Telia Finland Oyj C = FI	TeliaSonera Root CA v1	01 67 5f 82 be 00 17 de 89 55 a9 37 6e b1 f9		sha256RSA	29 November 2018	18 October 2032		e8 dd 64 99 97 33 52 3f e7 9a fa bb ca 65 30 9f 96 7d c6 b7	
4	1	CN = Telia Extended Validation CA v3 O = Telia Finland Oyj C = FI	Telia Root CA v2	01 67 5f ac 72 99 4c 74 bf 1a 67 ed c1 b3 ad		sha256RSA	29 November 2018	29 November 2043	7d b2 20 89 c0 e9 2e	3e fb f1 ef de e5 9a ac 7f cf 5f 12 eb 25 ee 4b 58 bc 1e 78	
5		CN = TeliaSonera Extended Validation SSL CA v1 O = TeliaSonera C = FI	TeliaSonera Root CA v1	00 99 38 b8 d6 06 28 ea 59 2e 26 01 0f d2 66 e8 11		sha256RSA	16 March 2015	17 October 2032		f1 f5 48 b0 1e b2 66 fa 95 c3 0f 79 c3 c9 1f 58 ea 3d f1 8c	
6		CN = Telia Server CA v3 O = Telia Finland Oyj C = Fl	Telia Root CA v2	01 67 5f e7 8f 10 f3 49 25 7f 16 b3 73 1f 7a		sha256RSA	29 November 2018	29 November 2043		ae f7 25 d4 96 c7 b8 ac fc 4c 47 ed 8b 72 50 a3 29 c4 96 6a	
7		CN = TeliaSonera Server CA v2 O = TeliaSonera C = FI	TeliaSonera Root CA v1	4c 46 2a f6 db fb f7 80 4f 84 c1 7c fe a9 72 b6		sha256RSA	16 October 2014	16 October 2032	25 f9 c6 8c d5 64 f5	0e c6 42 d0 0f 8d cf 7b 19 6a c0 a9 f2 c8 57 e3 42 68 79 a4	
8	1	CN = TeliaSonera Server CA v1 O = TeliaSonera	TeliaSonera Root CA v1	10 68 4a 0d 86 e8 43 59 2d 16 74 6a 88 15 2f 81		sha1RSA	13 May 2013	17 October 2032			The CA did not issue subscriber certificates during the period 1 Apr 2018 to 31 Mar 2019 and was maintained online to provide revocation status information only.



CA #	Cert. #	Subject	lssuer	Serial	Key Algorithm and Size	Digest Algorithm	Not Before	Not After	Subject Key Identifier	SHA1 Fingerprint	Other information
9	1	CN = TeliaSonera Gateway CA v2 O = TeliaSonera C = FI	TeliaSonera Root CA v1	00 86 3c 75 64 11 95 85 4f b4 31 38 a0 a0 cf 8a a3		sha256RSA	16 October 2014	16 October 2032	8b ca 68 cd 1e 2d c4	3f 1a 1c cb eb b8 c7 3b e9 94 46 91 8e 3f af f3 ae d2 47 a3	
10	1	CN = TeliaSonera Gateway CA v1 O = TeliaSonera	TeliaSonera Root CA v1	35 79 1d 87 92 51 6d 61 b1 1c 4b ef af 76 c1 da		sha1RSA	13 May 2013	17 October 2032			The CA did not issue subscriber certificates during the period 1 Apr 2018 to 31 Mar 2019 and was maintained online to provide revocation status information only.
11	1	CN = Telia Domain Validation CA v3 O = Telia Finland Oyj C = FI	Telia Root CA v2	01 67 5f fd e7 e4 18 11 e2 cd 76 b0 cd b5 0a			29 November 2018	29 November 2043	3b 3a e0 17 cb a4 07	25 c2 dd 78 d6 6e bf bd c9 48 02 44 fc 0f d7 8d 86 68 5e 95	
12	1	CN = Telia Domain Validation CA v2 O = Telia Finland Oyj C = Fl	TeliaSonera Root CA v1	01 65 84 e3 4a 38 d9 e9 63 eb ee d2 17 47 84		sha256RSA	29 August 2018	18 October 2032	71 93 7b 4b 11 f6 b8	38 c8 bb 88 69 79 3f 48 e2 95 5f 97 91 8b 4a c2 6a dc 80 56	
	2	CN = Telia Domain Validation CA v2 O = Telia Finland Oyj C = FI	TeliaSonera Root CA v1	01 65 37 a2 2c a0 32 e7 bc f7 28 a6 c9 3d 30		sha256RSA	12 July 2018	17 October 2032	05 c4 fa 5f fa 0a 33	eb da fd 29 d2 f6 13 b0 94 18 ec 45 57 a6 dd b0 9d c5 13 9b	The CA certificate was revoked on 29 Aug 2018.
	3	CN = Telia Domain Validation CA v2 O = Telia Finland Oyj C = FI	TeliaSonera Root CA v1	01 64 8d db 96 77 b2 df bf 02 b0 59 6e 25 d3		sha256RSA	12 July 2018	17 October 2032	05 c4 fa 5f fa 0a 33	ef 61 aa cd 36 ca 20 b9 ed a7 cc 87 fb e2 ce f4 43 b1 44 b0	The CA certificate was revoked on 14 Aug 2018.
13	1	CN = Telia Domain Validation SSL CA v1 O = Telia Finland Oyj C = FI	TeliaSonera Root CA v1	01 61 ae 20 05 ce 3f 12 7e f8 8d d7 25 1b b1		sha256RSA	19 February 2018	16 October 2032		8e 16 4d f8 80 51 da 37 8a 68 d8 f4 01 87 6d 29 c1 c7 7c 5b	

The following CAs have not issued publicly trusted SSL/TLS certificates intended to authenticate servers on the Internet (i.e. certificates containing the id-kp-serverAuth OID (1.3.6.1.5.5.7.3.1) in the extendedKeyUsage extension) and they were in scope only for the Network Security Requirements:

	Cert. #	Subject	lssuer		Digest Algorithm	Not Before	Not After	Subject Key Identifier	SHA1 Fingerprint	Other information
14				01 65 84 c9 e9 2b 80 33 f5 86 f0 3c 5c a0 dc			18 October 2032	66 11 b9 3b f8 26 80 f4 34 ce 87 8e 9b 1f 04 88 76 94 59 b2		
				01 65 37 9a f8 b4 b1 0b 5d b2 29 4f 44 87 ee	sha256RSA	12 July 2018		d5 a2 f2 0c 57 57 bd		The CA certificate was revoked on 29 Aug 2018.
			Root CA v1	01 64 8d ba 93 a4 85 78 8f 07 78 2b 07 f5 1b	sha256RSA	12 July 2018		d5 a2 f2 0c 57 57 bd		The CA certificate was revoked on 14 Aug 2018.
			Root CA v1	01 64 8d 94 37 0a 7d 9a 41 25 90 d5 84 f4 56	sha256RSA	12 July 2018		8a fc 3b 71 cf 58 80		The CA certificate was revoked on 12 Jul 2018.



CA #	Cert. #	Subject	lssuer	Serial Key Algorithn and Size	Digest Algorithm	Not Before	Not After	Subject Key Identifier	SHA1 Fingerprint	Other information
15	1	CN = Telia Document Signing CA v1 O = Telia Finland Oyj C = Fl	TeliaSonera Root CA v1	01 60 4b 22 f6 76 RSA 4096 3f 09 01 ee 04 83 bits 6b 97 3c	sha256RSA	28 November 2017	18 October 2032		59 51 61 ab 72 81 54 58 76 bf 38 ad 93 6c c0 3a b1 2b 8f 90	
16	1	CN = TeliaSonera Class 1 CA v2 O = TeliaSonera C = FI	TeliaSonera Root CA v1	00 fd 41 dd 7f d1 RSA 4096 9f 3e e9 f8 5d 9e 43 71 33 d4 db	sha256RSA	16 October 2014	16 October 2032	1a fe 26 41 46 6e cb	89 e3 c8 68 96 af 10 e2 f4 ee cb c8 12 04 6e b9 a4 4c 8f d0	
17	1	CN = TeliaSonera Class 1 CA v1 O = TeliaSonera	TeliaSonera Root CA v1	00 f8 5d 2f 19 0c RSA 4096 60 9f 14 94 b2 8d bits f9 c1 d1 e7 4c	sha1RSA	13 May 2013	17 October 2032			The CA did not issue subscriber certificates during the period 1 Apr 2018 to 31 Mar 2019 and was maintained online to provide revocation status information only.
18	1	CN = TeliaSonera Class 2 CA v2 O = TeliaSonera C = SE	TeliaSonera Root CA v1	63 7c 0b d7 85 a5 RSA 4096 bf 29 da 60 2d 7c bits 4d 7a 70 b1	sha256RSA	16 October 2014	16 October 2032		25 5a d6 e3 86 59 63 cf 5a d9 7b 31 2a 26 86 e2 4e db 92 24	
19	1	CN = TeliaSonera Class 2 CA v1 O = TeliaSonera	TeliaSonera Root CA v1	00 d0 d7 72 72 9a RSA 4096 04 17 97 f8 9e da e3 82 f9 1f 11	sha1RSA	13 May 2013	17 October 2032			The CA did not issue subscriber certificates during the period 1 Apr 2018 to 31 Mar 2019 and was maintained online to provide revocation status information only.
20	1	CN = TeliaSonera Email CA v4 O = TeliaSonera C = SE	TeliaSonera Root CA v1	52 eb a0 d8 b7 4b RSA 4096 46 eb 85 57 cd 6d bits a2 a3 dd dd	sha256RSA	16 October 2014	16 October 2032		df fd 4e 47 cf f7 c0 17 0a 53 eb ea 18 20 fb 4f 95 04 60 f5	
21	1	CN = TeliaSonera Email CA v3 O = TeliaSonera	TeliaSonera Root CA v1	00 81 51 ad 72 8b RSA 4096 67 a5 7f a4 55 24 bits 8d 81 d3 57 f9	sha1RSA	13 May 2013	17 October 2032			The CA did not issue subscriber certificates during the period 1 Apr 2018 to 31 Mar 2019 and was maintained online to provide revocation status information only.
22	1	CN = Ericsson NL Individual CA v3 O = Ericsson C = SE	TeliaSonera Root CA v1	53 b8 7e 83 e1 9c RSA 409e 99 28 93 b0 9b 49 bits 1c ec b8 eb	sha256RSA	27 October 2015	27 October 2025			The CA certificate has the following Extended Key Usage (EKU) attributes: id-kp-clientAuth id-kp-emailProtection
23	1	CN = Ericsson NL Individual CA v2 O = Ericsson	TeliaSonera Root CA v1	00 a0 0c cb cc 9b RSA 4096 99 98 ec e2 3a 70 bits f4 7c c1 c0 59	sha1RSA	27 May 2014	27 May 2024			The CA is not issuing subscriber certificates anymore and is maintained online to provide revocation status information only.
										The CA certificate has the following Extended Key Usage (EKU) attributes: id-kp-clientAuth id-kp-emailProtection



The following CAs in the CA hierarchy were not in the scope of the engagement. According to the CA, they have not issued publicly distributed and trusted certificates, instead the certificates are only relied by Telia's authentication service.

CA #	Cert. #	Subject	lssuer		Digest Algorithm	Not Before	Not After	Subject Key Identifier	SHA1 Fingerprint	Other information
24	1	CN = TeliaSonera Mobile ID CA v2 O = TeliaSonera Finland Oyj C = Fl	TeliaSonera Root CA v1	01 61 ae 3e 89 33 e5 b8 95 8a ef 92 9c 0c eb	sha256RSA	19 February 2018	17 October 2032	62 27 2c 65 53 93 d5	97 87 ea b2 69 88 a0 98 ca 27 ae 04 0b	The CA certificate has the following Extended Key Usage (EKU) attributes: id-kp-clientAuth id-kp-timeStamping
	1 -	CN = TeliaSonera Mobile ID CA v2 O = TeliaSonera Finland Oyj C = Fl	TeliaSonera Root CA v1	03 75 c4 9b 7e 63 ce 43 37 07 ff 19 84 37 a5 ef	sha256RSA	26 January 2016	17 October 2032	62 27 2c 65 53 93 d5	9c a5 0a cc c9 bc 66 b0 84 9b aa 78 2a	The CA certificate was revoked on 17 Apr 2018. The CA certificate had the following Extended Key Usage (EKU) attributes: id-kp-clientAuth id-kp-emailProtection id-kp-timeStamping
25		CN = TeliaSonera Mobile ID CA v1 O = TeliaSonera Finland Oyj C = FI	TeliaSonera Root CA v1	01 63 8b ea 73 4a fa f8 7f 6e 51 24 37 1f 72	sha256RSA	23 May 2018	16 October 2032		33 ca 27 66 3f 1d 29	The CA certificate has the following Extended Key Usage (EKU) attributes: id-kp-clientAuth
	-	CN = TeliaSonera Mobile ID CA v1 O = Telia Finland Oyj C = Fl	TeliaSonera Root CA v1	01 62 af 14 90 9a 4c 15 5a 56 ba 6d b7 ab 5f	 sha256RSA	10 April 2018	16 October 2032	c1 0b d6 26 2c d1 08	10 93 8f c6 a9 d0 60 9c 0c f4 4a ba	The CA certificate was revoked on 23 May 2018. The CA certificate has the following Extended Key Usage (EKU) attributes: id-kp-clientAuth
	-	CN = TeliaSonera Mobile ID CA v1 O = TeliaSonera Finland Oyj C = Fl	TeliaSonera Root CA v1	00 d7 6a 8b c5 05 09 00 a1 9b 44 5c 87 28 cc a6 36	sha256RSA	16 October 2014	16 October 2032	c1 0b d6 26 2c d1 08	63 35 c2 fc a8 6e 20 c3 df ff fd 6a 19	The CA certificate was revoked on 17 Apr 2018. The CA certificate had the following Extended Key Usage (EKU) attributes: id-kp-clientAuth id-kp-emailProtection
		CN = TeliaSonera Mobile ID CA v1 O = TeliaSonera Finland Oyj C = Fl	TeliaSonera Root CA v1	00 f9 4c 94 77 c4 fb 88 be 33 5e 65 72 d3 7a 72 25	sha256RSA	16 December 2010	17 October 2032	c1 0b d6 26 2c d1 08	cb 18 ac 54 e8 d1 6c 01 93 dd 95 4e 18 53 7b 8a 71 b2 34 e7	



TELIA'S MANAGEMENT STATEMENT

Telia Company AB (Telia) operates the Certification Authority (CA) services as enumerated in Attachment A, and provides SSL CA services.

Telia management has assessed its disclosures of its certificate practices and controls over its SSL CA services. During our assessment we noted the following deviations which caused the relevant criteria to not be met:

#	Deviation	Relevant WebTrust Criteria
1	The Key Usage extension in the root CA certificates of <i>TeliaSonera Root CA v1</i> and <i>Sonera Class 2 CA</i> is not marked critical and <i>TeliaSonera Root CA v1</i> certificate's subject information does not include subject:countryName. This caused WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.3, Principle 2, Criterion 2.3 to not be met. However, Telia generated a new root CA, <i>Telia Root CA v2</i> , on 29 November 2018, which is planned to eventually replace <i>TeliaSonera Root CA v1</i> and <i>Sonera Class 2 CA</i> . Extensions, key sizes, and certificate policy identifiers (including Reserved Certificate Policy Identifiers) of the new <i>Telia Root CA v2</i> certificate conform to the Baseline Requirements.	Principle 2, Criterion 2.3 The CA maintains controls to provide reasonable assurance that the extensions, key sizes, and certificate policy identifiers (including Reserved Certificate Policy Identifiers) of Root CA certificates generated conform to the Baseline Requirements.
2	The subscriber certificates issued by <i>Telia Domain</i> <i>Validation SSL CA v1</i> contained wrong policy identifier until 25 June 2018. The certificates contained the policy identifier of the Organization Validated certificates (2.23.140.1.2.2) although the certificates were only domain validated. This caused WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.3, Principle 2, Criteria 2.5 and 2.14 to not be met. All the certificates with the wrong policy identifier have been revoked by Telia before the end of September 2018.	 Principle 2, Criterion 2.5 The CA maintains controls to provide reasonable assurance that the extensions, key sizes, and certificate policy identifiers (including Reserved Certificate Policy Identifiers) of Subscriber certificates generated conform to the Baseline Requirements. Principle 2, Criterion 2.14 The CA maintains controls to provide reasonable assurance that Subject information of Certificates conforms to the Baseline Requirements, including: Subject field requirements if Reserved Certificate Policy Identifiers are asserted
3	Before 9 August 2018 many organization validated subscriber certificates included an email address as an optional subject attribute in the Subject field of the certificate and the CA did not have controls to adequately verify the email address information. As a partly mitigating factor, the email address has not been included in the subject alternative name extension and the certificates have not included key usage purpose id-kp-emailProtection in the Extended Key Usage extension. This caused WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.3, Principle 2, Criterion 2.14 to not be met.	 Principle 2, Criterion 2.14 The CA maintains controls to provide reasonable assurance that Subject information of Certificates conforms to the Baseline Requirements, including: Other Subject Attributes



#	Deviation	Relevant WebTrust Criteria
	Since 9 August 2018 email address has not been included in any organization validated subscriber certificates.	
4	13 subscriber certificates with inappropriate locality names were issued to three different organizations by TeliaSonera Server CA v2. According to the CPS, locality name should be a city name, but in these cases locality name consisted of a country name or organization's postal office name. This caused WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.3, Principle 2, Criteria 2.14 and 4.2 to not be met. All these certificates have been revoked.	 Principle 2, Criterion 2.14 The CA maintains controls to provide reasonable assurance that Subject information of Certificates conforms to the Baseline Requirements, including: subject:localityName Principle 2, Criterion 4.2 The CA maintains controls to provide reasonable assurance that the following information provided by the Applicant is verified directly by performing the steps established by the SSL Baseline Requirements: Identity (SSL Baseline Requirements Section 3.2.2.1)
5	Weekly security configuration reviews were not implemented for three tested security support systems until in October 2018 and therefore configuration changes of these systems had not been reviewed on at least a weekly basis during the period from April 2018 to September 2018. In addition, weekly configuration change report of one tested security support system had not functioned correctly and therefore its configurations had not been reviewed on at least a weekly basis to determine whether any changes violated the CA's security policies throughout the period 1 April 2018 to 31 March 2019. This caused WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.3, Principle 4, Criterion 1.8 to not be met.	Principle 4, Criterion 1.8 The CA maintains controls to provide reasonable assurance that configurations of Issuing Systems, Certificate Management Systems, Security Support Systems, and Front-End / Internal-Support Systems are reviewed on at least a weekly basis to determine whether any changes violated the CA's security policies.

Based on that assessment, in Telia management's opinion, except for the matters described in the preceding table, in providing its SSL and non-SSL Certification Authority (CA) services in Finland and Sweden, throughout the period 1 April 2018 to 31 March 2019, Telia has:

- disclosed its SSL certificate life cycle management business practices in its:
 - Telia Root Certificate Policy and Certification Practice Statement v2.4;
 - Telia Server Certificate Policy and Certification Practice Statement v2.4;
 - Telia Gateway Certificate Policy and Certification Practice Statement v1.6;
 - Telia Organizational User Certificate Policy and Certification Practice Statement v1.3;
 - TeliaSonera Customer CA Certificate Policy and Certification Practice Statement v1.2; and
 - Telia Production Certification Practice Statement v2.6

including its commitment to provide SSL certificates in conformity with the CA/Browser Forum Requirements on the Telia website, and provided such services in accordance with its disclosed practices

• maintained effective controls to provide reasonable assurance that



- the integrity of keys and SSL certificates it manages is established and protected throughout their life cycles; and
- SSL subscriber information is properly authenticated (for the registration activities performed by Telia)
- maintained effective controls to provide reasonable assurance that
 - logical and physical access to CA systems and data is restricted to authorized individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity
- maintained effective controls to provide reasonable assurance that it meets the Network and Certificate System Security Requirements as set forth by the CA/Browser Forum

in accordance with <u>WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with</u> <u>Network Security v2.3</u>.

Stockholm, 28 June 2019

Telia Company AB

an Jum

Lauri Immonen Head of CPS PA IT Services Security and Id Products



Attachment A: List of CAs in Scope

The following CAs were in scope for the SSL Baseline Requirements and Network Security Requirements:

CA #	Cert. #	Subject	Issuer	Serial	Key Algorithm and Size	Digest Algorithm	Not Before	Not After	Subject Key Identifier	SHA1 Fingerprint	Other information
1	1	CN = Sonera Class2 CA O = Sonera C = FI	Self-signed	1d	RSA 2048 bits	sha1RSA	6 April 2001	6 April 2021	4a a0 aa 58 84 d3 5e 3c	37 f7 6d e6 07 7c 90 c5 b1 3e 93 1a b7 41 10 b4 f2 e4 9a 27	
2	1	CN = TeliaSonera Root CA v1 O = TeliaSonera	Self-signed	00 95 be 16 a0 f7 2e 46 f1 7b 39 82 72 fa 8b cd 96		sha1RSA	18 October 2007	18 October 2032		43 13 bb 96 f1 d5 86 9b c1 4e 6a 92 f6 cf f6 34 69 87 82 37	
	2	CN = TeliaSonera Root CA v1 O = TeliaSonera	Sonera Class2 CA	00 87 ed 2e 1a 28 26 4a c5 19 aa 3a eb b9 0d a2 cb		sha256RSA	5 December 2014	5 April 2021		9f f6 1d eb b4 ed 26 3b 4d be c7 79 87 ca 49 3c 6c c9 3a a4	
	3	CN = TeliaSonera Root CA v1 O = TeliaSonera	Sonera Class2 CA	00 d1 e0 3e 5b 48 ed c7 9e 09 3f 40 de e1 61 c3 8b		sha1RSA	18 October 2007	17 October 2019	8f 9a 96 0c d5 eb fa	f4 67 16 7f 48 8b c8 34 66 38 88 a6 9a db 4c b9 74 16 d6 06	
3	1	CN = Telia Root CA v2 O = Telia Finland Oyj C = Fl	Self-signed	01 67 5f 27 d6 fe 7a e3 e4 ac be 09 5b 05 9e		sha256RSA	29 November 2018	29 November 2043	87 f6 fd ac 1d 9e d6	b9 99 cd d1 73 50 8a c4 47 05 08 9c 8c 88 fb be a0 2b 40 cd	
	2	CN = Telia Root CA v2 O = Telia Finland Oyj C = Fl	TeliaSonera Root CA v1	01 67 5f 82 be 00 17 de 89 55 a9 37 6e b1 f9		sha256RSA	29 November 2018	18 October 2032	87 f6 fd ac 1d 9e d6	e8 dd 64 99 97 33 52 3f e7 9a fa bb ca 65 30 9f 96 7d c6 b7	
4	1	CN = Telia Extended Validation CA v3 O = Telia Finland Oyj C = Fl	Telia Root CA v2	01 67 5f ac 72 99 4c 74 bf 1a 67 ed c1 b3 ad		sha256RSA	29 November 2018	29 November 2043		3e fb f1 ef de e5 9a ac 7f cf 5f 12 eb 25 ee 4b 58 bc 1e 78	
5	1	CN = TeliaSonera Extended Validation SSL CA v1 O = TeliaSonera C = FI		00 99 38 b8 d6 06 28 ea 59 2e 26 01 0f d2 66 e8 11		sha256RSA	16 March 2015	17 October 2032		f1 f5 48 b0 1e b2 66 fa 95 c3 0f 79 c3 c9 1f 58 ea 3d f1 8c	
6	1	CN = Telia Server CA v3 O = Telia Finland Oyj C = Fl		01 67 5f e7 8f 10 f3 49 25 7f 16 b3 73 1f 7a		sha256RSA	29 November 2018	29 November 2043		ae f7 25 d4 96 c7 b8 ac fc 4c 47 ed 8b 72 50 a3 29 c4 96 6a	



CA #	Cert. #	Subject	Issuer	Serial	Key Algorithm and Size	Digest Algorithm	Not Before	Not After	Subject Key Identifier	SHA1 Fingerprint	Other information
7	1	CN = TeliaSonera Server CA v2 O = TeliaSonera C = Fl	TeliaSonera Root CA v1	4c 46 2a f6 db fb f7 80 4f 84 c1 7c fe a9 72 b6		sha256RSA	16 October 2014	16 October 2032	25 f9 c6 8c d5 64 f5	0e c6 42 d0 0f 8d cf 7b 19 6a c0 a9 f2 c8 57 e3 42 68 79 a4	
8	1	CN = TeliaSonera Server CA v1 O = TeliaSonera	TeliaSonera Root CA v1	10 68 4a 0d 86 e8 43 59 2d 16 74 6a 88 15 2f 81		sha1RSA	13 May 2013	17 October 2032		bf 58 a6 98 c2 b1 54	The CA did not issue subscriber certificates during the period 1 Apr 2018 to 31 Mar 2019 and was maintained online to provide revocation status information only.
9	1	CN = TeliaSonera Gateway CA v2 O = TeliaSonera C = Fl	TeliaSonera Root CA v1	00 86 3c 75 64 11 95 85 4f b4 31 38 a0 a0 cf 8a a3		sha256RSA	16 October 2014	16 October 2032		3f 1a 1c cb eb b8 c7 3b e9 94 46 91 8e 3f af f3 ae d2 47 a3	
10	1	CN = TeliaSonera Gateway CA v1 O = TeliaSonera	TeliaSonera Root CA v1	35 79 1d 87 92 51 6d 61 b1 1c 4b ef af 76 c1 da		sha1RSA	13 May 2013	17 October 2032			The CA did not issue subscriber certificates during the period 1 Apr 2018 to 31 Mar 2019 and was maintained online to provide revocation status information only.
11	1	CN = Telia Domain Validation CA v3 O = Telia Finland Oyj C = FI	Telia Root CA v2	01 67 5f fd e7 e4 18 11 e2 cd 76 b0 cd b5 0a		sha256RSA	29 November 2018	29 November 2043		25 c2 dd 78 d6 6e bf bd c9 48 02 44 fc 0f d7 8d 86 68 5e 95	
12	1	CN = Telia Domain Validation CA v2 O = Telia Finland Oyj C = FI	TeliaSonera Root CA v1	01 65 84 e3 4a 38 d9 e9 63 eb ee d2 17 47 84		sha256RSA	29 August 2018	18 October 2032		38 c8 bb 88 69 79 3f 48 e2 95 5f 97 91 8b 4a c2 6a dc 80 56	
	2	CN = Telia Domain Validation CA v2 O = Telia Finland Oyj C = FI	TeliaSonera Root CA v1	01 65 37 a2 2c a0 32 e7 bc f7 28 a6 c9 3d 30		sha256RSA	12 July 2018	17 October 2032		b0 94 18 ec 45 57 a6	The CA certificate was revoked on 29 Aug 2018.
	3	CN = Telia Domain Validation CA v2 O = Telia Finland Oyj C = Fl	TeliaSonera Root CA v1	01 64 8d db 96 77 b2 df bf 02 b0 59 6e 25 d3		sha256RSA	12 July 2018	17 October 2032		b9 ed a7 cc 87 fb e2	The CA certificate was revoked on 14 Aug 2018.
13	1	CN = Telia Domain Validation SSL CA v1 O = Telia Finland Oyj C = Fl	TeliaSonera Root CA v1	01 61 ae 20 05 ce 3f 12 7e f8 8d d7 25 1b b1		sha256RSA	19 February 2018	16 October 2032		8e 16 4d f8 80 51 da 37 8a 68 d8 f4 01 87 6d 29 c1 c7 7c 5b	



The following CAs have not issued publicly trusted SSL/TLS certificates intended to authenticate servers on the Internet (i.e. certificates containing the id-kp-serverAuth OID (1.3.6.1.5.5.7.3.1) in the extendedKeyUsage extension) and they were in scope only for the Network Security Requirements:

CA #	Cert. #	Subject	Issuer	Serial	Key Algorithm and Size	Digest Algorithm	Not Before	Not After	Subject Key Identifier	SHA1 Fingerprint	Other information
14		CN = Telia Document Signing CA v2 O = Telia Finland Oyj C = FI	TeliaSonera Root CA v1	01 65 84 c9 e9 2b 80 33 f5 86 f0 3c 5c a0 dc		sha256RSA	29 August 2018	18 October 2032	f4 34 ce 87 8e 9b 1f	83 53 7f b0 87 ef f3 e2 e9 6a f2 10 8a 41 d8 9c 4b 5d 52 2e	
		CN = Telia Document Signing CA v2 O = Telia Finland Oyj C = FI		01 65 37 9a f8 b4 b1 0b 5d b2 29 4f 44 87 ee		sha256RSA	12 July 2018	17 October 2032	d5 a2 f2 0c 57 57 bd	41 58 61 bc 1d 5b a6 d0 56 f6 5c 31 b1 8a be c1 7c 78 7d 1a	The CA certificate was revoked on 29 Aug 2018.
		CN = Telia Document Signing CA v2 O = Telia Finland Oyj C = FI	Root CA v1	01 64 8d ba 93 a4 85 78 8f 07 78 2b 07 f5 1b		sha256RSA	12 July 2018	17 October 2032	d5 a2 f2 0c 57 57 bd	c3 45 9c 70 f7 1d 35 83 8b b4 94 82 c7 30 58 5d 71 90 c4 ae	The CA certificate was revoked on 14 Aug 2018.
		CN = Telia Document Signing CA v2 O = Telia Finland Oyj C = FI	TeliaSonera Root CA v1	01 64 8d 94 37 0a 7d 9a 41 25 90 d5 84 f4 56		sha256RSA	12 July 2018	17 October 2032		27 b2 5c 85 8f 93 72 5c 41 48 79 3d 74 ad 6b 3e 19 41 d5 a3	The CA certificate was revoked on 12 Jul 2018.
15		CN = Telia Document Signing CA v1 O = Telia Finland Oyj C = FI	TeliaSonera Root CA v1	01 60 4b 22 f6 76 3f 09 01 ee 04 83 6b 97 3c		sha256RSA	28 November 2017	18 October 2032	4e 4e 3d 1e 9e 4f e0	59 51 61 ab 72 81 54 58 76 bf 38 ad 93 6c c0 3a b1 2b 8f 90	
16		CN = TeliaSonera Class 1 CA ∨2 O = TeliaSonera C = FI	TeliaSonera Root CA v1	00 fd 41 dd 7f d1 9f 3e e9 f8 5d 9e 43 71 33 d4 db		sha256RSA	16 October 2014	16 October 2032	1a fe 26 41 46 6e cb	89 e3 c8 68 96 af 10 e2 f4 ee cb c8 12 04 6e b9 a4 4c 8f d0	
17		CN = TeliaSonera Class 1 CA v1 O = TeliaSonera	TeliaSonera Root CA v1	00 f8 5d 2f 19 0c 60 9f 14 94 b2 8d f9 c1 d1 e7 4c		sha1RSA	13 May 2013	17 October 2032			The CA did not issue subscriber certificates during the period 1 Apr 2018 to 31 Mar 2019 and was maintained online to provide revocation status information only.
18		CN = TeliaSonera Class 2 CA v2 O = TeliaSonera C = SE	TeliaSonera Root CA v1	63 7c 0b d7 85 a5 bf 29 da 60 2d 7c 4d 7a 70 b1		sha256RSA	16 October 2014	16 October 2032		25 5a d6 e3 86 59 63 cf 5a d9 7b 31 2a 26 86 e2 4e db 92 24	
19		CN = TeliaSonera Class 2 CA v1 O = TeliaSonera	TeliaSonera Root CA v1	00 d0 d7 72 72 9a 04 17 97 f8 9e da e3 82 f9 1f 11		sha1RSA	13 May 2013	17 October 2032			The CA did not issue subscriber certificates during the period 1 Apr 2018 to 31 Mar 2019 and was maintained online to provide revocation status information only.



CA #	Cert. #	Subject	Issuer	Serial	Key Algorithm and Size	Digest Algorithm	Not Before	Not After	Subject Key Identifier	SHA1 Fingerprint	Other information
20	1	CN = TeliaSonera Email CA v4 O = TeliaSonera C = SE	TeliaSonera Root CA v1	52 eb a0 d8 b7 4b 46 eb 85 57 cd 6d a2 a3 dd dd		sha256RSA	16 October 2014	16 October 2032	f0 a6 29 54 35 87 95	df fd 4e 47 cf f7 c0 17 0a 53 eb ea 18 20 fb 4f 95 04 60 f5	1
21	1	CN = TeliaSonera Email CA v3 O = TeliaSonera	TeliaSonera Root CA v1	00 81 51 ad 72 8b 67 a5 7f a4 55 24 8d 81 d3 57 f9		sha1RSA	13 May 2013	17 October 2032			The CA did not issue subscriber certificates during the period 1 Apr 2018 to 31 Mar 2019 and was maintained online to provide revocation status information only.
22	1	CN = Ericsson NL Individual CA v3 O = Ericsson C = SE	TeliaSonera Root CA v1	53 b8 7e 83 e1 9c 99 28 93 b0 9b 49 1c ec b8 eb		sha256RSA	27 October 2015	27 October 2025	ac 20 3d d8 dc e3 91		The CA certificate has the following Extended Key Usage (EKU) attributes: id-kp-clientAuth id-kp-emailProtection
23	1	CN = Ericsson NL Individual CA v2 O = Ericsson	TeliaSonera Root CA v1	00 a0 0c cb cc 9b 99 98 ec e2 3a 70 f4 7c c1 c0 59		sha1RSA	27 May 2014	27 May 2024	86 02 c3 2f 6f 06 ca		The CA is not issuing subscriber certificates anymore and is maintained online to provide revocation status information only.
											The CA certificate has the following Extended Key Usage (EKU) attributes: id-kp-clientAuth id-kp-emailProtection



The following CAs in the CA hierarchy were not in the scope of the engagement. These CAs have not issued publicly distributed and trusted subscriber certificates, instead the certificates are only relied by Telia's authentication service.

CA #	Cert. #	Subject	Issuer	Serial	Key Algorithm and Size	Digest Algorithm	Not Before	Not After	Subject Key Identifier	SHA1 Fingerprint	Other information
24	-	CN = TeliaSonera Mobile ID CA v2 O = TeliaSonera Finland Oyj C = Fl	TeliaSonera Root CA v1	01 61 ae 3e 89 33 e5 b8 95 8a ef 92 9c 0c eb		sha256RSA	19 February 2018	17 October 2032	62 27 2c 65 53 93 d5	97 87 ea b2 69 88 a0 98 ca 27 ae 04 0b	The CA certificate has the following Extended Key Usage (EKU) attributes: id-kp-clientAuth id-kp-timeStamping
		CN = TeliaSonera Mobile ID CA v2 O = TeliaSonera Finland Oyj C = Fl	TeliaSonera Root CA v1	03 75 c4 9b 7e 63 ce 43 37 07 ff 19 84 37 a5 ef		sha256RSA	26 January 2016	17 October 2032	62 27 2c 65 53 93 d5	9c a5 0a cc c9 bc 66 b0 84 9b aa 78 2a	The CA certificate was revoked on 17 Apr 2018. The CA certificate had the following Extended Key Usage (EKU) attributes: id-kp-clientAuth id-kp-emailProtection id-kp-timeStamping
25	-	CN = TeliaSonera Mobile ID CA v1 O = TeliaSonera Finland Oyj C = Fl	TeliaSonera Root CA v1	01 63 8b ea 73 4a fa f8 7f 6e 51 24 37 1f 72		sha256RSA	23 May 2018	16 October 2032		33 ca 27 66 3f 1d 29 7e e8 43 62 a1 22	The CA certificate has the following Extended Key Usage (EKU) attributes: id-kp-clientAuth
		CN = TeliaSonera Mobile ID CA v1 O = Telia Finland Oyj C = Fl	TeliaSonera Root CA v1	01 62 af 14 90 9a 4c 15 5a 56 ba 6d b7 ab 5f		sha256RSA	10 April 2018	16 October 2032	c1 0b d6 26 2c d1 08	07 10 93 8f c6 a9 d0 60 9c 0c f4 4a ba	The CA certificate was revoked on 23 May 2018. The CA certificate has the following Extended Key Usage (EKU) attributes: id-kp-clientAuth
	-	CN = TeliaSonera Mobile ID CA v1 O = TeliaSonera Finland Oyj C = Fl	TeliaSonera Root CA v1	00 d7 6a 8b c5 05 09 00 a1 9b 44 5c 87 28 cc a6 36		sha256RSA	16 October 2014	16 October 2032	c1 0b d6 26 2c d1 08	63 35 c2 fc a8 6e 20 c3 df ff fd 6a 19	The CA certificate was revoked on 17 Apr 2018. The CA certificate had the following Extended Key Usage (EKU) attributes: id-kp-clientAuth id-kp-emailProtection
		CN = TeliaSonera Mobile ID CA v1 O = TeliaSonera Finland Oyj C = FI	TeliaSonera Root CA v1	00 f9 4c 94 77 c4 fb 88 be 33 5e 65 72 d3 7a 72 25		sha256RSA	16 December 2010	17 October 2032	c1 0b d6 26 2c d1 08	cb 18 ac 54 e8 d1 6c 01 93 dd 95 4e 18 53 7b 8a 71 b2 34 e7	