TELIA'S MANAGEMENT'S ASSERTION

Telia Company AB (Telia) operates the Certificate Authority (CA) services as listed in Appendix A, and provides the following services:

- Subscriber registration
- Certificate renewal
- Certificate rekey
- Certificate issuance
- Certificate distribution
- Certificate revocation
- Certificate validation
- Subscriber key generation and management
- Subordinate CA certification

The management of Telia is responsible for establishing and maintaining effective controls over its CA operations, including its CA business practices disclosure on its website, CA business practices management, CA environmental controls, CA key lifecycle management controls, subscriber key lifecycle management controls, certificate lifecycle management controls, and subordinate CA certificate lifecycle management controls. These controls contain monitoring mechanisms, and actions are taken to correct deficiencies identified.

There are inherent limitations in any controls, including the possibility of human error, and the circumvention or overriding of controls. Accordingly, even effective controls can only provide reasonable assurance with respect to Telia’s Certification Authority operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

The management of Telia management has assessed its disclosures of its certificate practices and controls over its CA services. Based on that assessment, in Telia management’s opinion, in providing its Certification Authority (CA) services in Finland and Sweden, throughout the period 1 April 2019 to 31 March 2020, Telia has:

- Disclosed its Business, Key Life Cycle Management, Certificate Life Cycle Management, and CA Environmental Control practices in its:
  - Telia Production Certification Practice Statement, version 2.8, dated March 2020
- Maintained effective controls to provide reasonable assurance that:
  - Telia provides its services in accordance with its Certificate Practice Statements
- Maintained effective controls to provide reasonable assurance that:
o the integrity of keys and certificates it manages is established and protected throughout their life cycles;
  o the integrity of subscriber keys and certificates it manages is established and protected throughout their life cycles;
  o the Subscriber information is properly authenticated (for the registration activities performed by Telia); and
  o subordinate CA certificate requests are accurate, authenticated, and approved

- Maintained effective controls to provide reasonable assurance that:
  o logical and physical access to CA systems and data is restricted to authorized individuals;
  o the continuity of key and certificate management operations is maintained; and
  o CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity

in accordance with the WebTrust Principles and Criteria for Certification Authorities v2.2, including the following:

CA Business Practices Disclosure
  • Certification Practice Statement (CPS)

CA Business Practices Management
  • Certification Practice Statement Management

CA Environmental Controls
  • Security Management
  • Asset Classification and Management
  • Personnel Security
  • Physical & Environmental Security
  • Operations Management
  • System Access Management
  • System Development and Maintenance
  • Business Continuity Management
  • Monitoring and Compliance
  • Audit Logging

CA Key Lifecycle Management Controls
  • CA Key Generation
  • CA Key Storage, Backup, and Recovery
  • CA Public Key Distribution
  • CA Key Usage
  • CA Key Archival and Destruction
  • CA Key Compromise
  • CA Cryptographic Hardware Lifecycle Management

Subscriber Key Lifecycle Management Controls
  • CA-Provided Subscriber Key Generation Services
CA-Provided Subscriber Key Storage and Recovery Services
Requirements for Subscriber Key Management

Certificate Lifecycle Management Controls

- Subscriber Registration
- Certificate Renewal
- Certificate Rekey
- Certificate Issuance
- Certificate Distribution
- Certificate Revocation
- Certificate Validation

Subordinate CA Certificate Lifecycle Management Controls

- Subordinate CA Certificate Lifecycle Management

Telia does not escrow its CA keys, does not provide Integrated Circuit Card (ICC) Lifecycle Management, and does not provide certificate suspension services. Accordingly, our assertion does not extend to controls that would address those criteria.

Helsinki, 26 June 2020
Telia Company AB

[Signature]

Tommi Mattila
Head of Product Area, IT Services
### Appendix A: List of CAs in scope

The following CAs were in scope of the engagement:

<table>
<thead>
<tr>
<th>CA #</th>
<th>Cert #</th>
<th>Subject</th>
<th>Issuer</th>
<th>Serial</th>
<th>Key Algorithm</th>
<th>Key Size</th>
<th>Digest Algorithm</th>
<th>Not Before</th>
<th>Not After</th>
<th>SKI</th>
<th>SHA2 Fingerprint</th>
<th>Other information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>CN = TeliaSonera Root CA v1 O = TeliaSonera</td>
<td>Self-signed</td>
<td>0095BE16A07F72E46F17B398272FABCD96</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha1RSA</td>
<td>18 October 2007</td>
<td>18 October 2032</td>
<td>F08F593800BD3F58F9A960CD58E5F</td>
<td>A7BA17E81312</td>
<td>DD6936F8E21F290F77C123A1A521C12224FC7255B73E03A7630693E8A24B0FA389</td>
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<td>2</td>
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<td>Sonera Class2 CA</td>
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<td>4096 bits</td>
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<td>5 December 2014</td>
<td>5 April 2021</td>
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<td>CN = Sonera Class2 CA O = Sonera C = FI</td>
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<td>1D</td>
<td>RSA</td>
<td>2048 bits</td>
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<td>16 April 2021</td>
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<td>sha256RSA</td>
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<td>67C2F86D82439</td>
<td>24B65977F8AFB1E5B2AC98B986B9457187</td>
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<td>CN = Telia Root CA v2 O = Telia Finland Oyj C = FI</td>
<td>TeliaSonera Root CA v1</td>
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<td>29 November 2032</td>
<td>72ACE43379AA458F86FDC4AC199ED</td>
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<td>SHA2 Fingerprint</td>
<td>Other Information</td>
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<td>29 November 2043</td>
<td>FB3670385D1FF0 7DB22086C0DE32 EB7D9E858A835</td>
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<td>0191AE200 5CE3F127E F8DD7251 BB1</td>
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<td>Key Algorithm</td>
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<td>SHA2 Fingerprint</td>
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<td>46566D0E072316 B0EA4F05EB9695 ADEA5EEC97EA4</td>
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<td>4096 bits</td>
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<td>16 October 2032</td>
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<td>TeliaSonera Root CA v1</td>
<td>52EBA0DB8 74B46EB85 57C6BDA2A 3DDD</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>16 October 2014</td>
<td>16 October 2032</td>
<td>89662A82D178FA F0A6295435B795 6FD3776019F0</td>
<td>D1F2656AC8382739A 3B087C47AB5CA894 5A32F162B6149C306 7B3C7E6AF8AE8</td>
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<td>14</td>
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<td>CN = Ericsson NL Individual CA v3 O = Ericsson C = SE</td>
<td>TeliaSonera Root CA v1</td>
<td>53987E3E 10C962893 B69B491CE C88EB</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>27 October 2015</td>
<td>27 October 2025</td>
<td>1C7B1899E970C76 AC2033D8DE39 16AE3DB2DA653</td>
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<td>CA #</td>
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<td>Subject</td>
<td>Issuer</td>
<td>Serial</td>
<td>Key Algorithm</td>
<td>Key Size</td>
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<td>SHA2 Fingerprint</td>
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</tbody>
</table>
To the management of Telia Company AB (Telia)

Amstelveen, 26 June 2020

Subject: Independent Auditor’s Report WebTrust for CAs

We have been engaged, in a reasonable assurance engagement, to report on Telia’s management’s assertion that for its Certification Authority (CA) operations in Finland and Sweden, throughout the period 1 April 2019 through 31 March 2020 for its CA as enumerated in Attachment A, Telia has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in its:
  - Telia Production Certification Practice Statement, version 2.8, March 2020

- maintained effective controls to provide reasonable assurance that Telia provides its services in accordance with its Certification Practice Statement;

- maintained effective controls to provide reasonable assurance that:
  - the integrity of keys and certificates it manages is established and protected throughout their lifecycles;
  - the integrity of subscriber keys and certificates it manages is established and protected throughout their lifecycles;
  - subscriber information is properly authenticated (for the registration activities performed by Telia); and
  - subordinate CA certificate requests are accurate, authenticated, and approved

- 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
Subject: Independent Auditor’s Report  WebTrust for CAs
Amstelveen, 26 June 2020

- CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity.

in accordance with the WebTrust Services Principles and Criteria for Certification Authorities, version 2.2 – May 2019.

Telia makes use of external registration authorities for subscriber registration activities, as disclosed in Telia’s business practices. Our procedures did not extend to the controls exercised by these external registration authorities.

Telia does not escrow its CA keys, does not provide Integrated Circuit Card (ICC) lifecycle management, and does not provide certificate suspension services. Accordingly, our procedures did not extend to controls that would address those criteria.

Certification Authority’s responsibilities

Telia’s management is responsible for its assertion, including the fairness of its presentation, and the provision of its described services in accordance with the WebTrust Principles and Criteria for Certification Authorities v2.2.

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. Therefore, we are independent of Telia and complied with other ethical requirements in accordance with the Code of Ethics of NOREA and the Code of Ethics for Professional Accountants, a regulation with respect to independence of the NBA, Royal Netherlands Institute of Chartered Accountants.

We apply the International Standard on Quality Control 1, 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. We also apply the Regulations for Quality management systems of the NBA and, accordingly, maintain 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 assertion based on our procedures. We conducted our procedures in accordance with International Standard on Assurance Engagements (ISAE) 3000, Assurance Engagements Other than Audits or Reviews of Historical Financial Information, issued by the International Auditing and Assurance Standards Board and the related Dutch Directive 3000A ‘Attestation engagements’, as issued by NOREA, the IT Auditors Association in The Netherlands.
These standards require that we plan and perform our procedures to obtain reasonable assurance about whether, in all material respects, management’s assertion is fairly stated, and, accordingly, included:

1. obtaining an understanding of Telia’s key and certificate lifecycle management business practices and its controls over key and certificate integrity, over the authenticity and confidentiality of subscriber and relying party information, over the continuity of key and certificate lifecycle management operations and over development, maintenance and operation of systems integrity;

2. selectively testing transactions executed in accordance with disclosed key and certificate lifecycle management business 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.

Opinion

In our opinion, throughout the period 1 April 2019 through 31 March 2020, Telia management’s assertion, as referred to above, is fairly stated, in all material respects, in accordance with the WebTrust Principles and Criteria for Certification Authorities v2.2.

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 v2.2, nor the suitability of any of Telia’ services for any customer’s intended purpose.
Use of the WebTrust seal

Telia’s use of the WebTrust for Certification Authorities Seal constitutes a symbolic representation of the contents of this report and it is not intended, nor should it be construed, to update this report or provide any additional assurance.

On behalf of KPMG Advisory N.V.
Amstelveen, 26 June 2020

(originally signed by)

drs. ing. R.F. Koorn RE CISA
Partner
Subject: Independent Auditor's Report  WebTrust for CAs
Amstelveen, 26 June 2020

Attachment A: List of CAs in scope

The following CAs were in scope of the engagement:

<table>
<thead>
<tr>
<th>CA #</th>
<th>Cert #</th>
<th>Subject</th>
<th>Serial</th>
<th>Key Algorithm</th>
<th>Key Size</th>
<th>Digest Algorithm</th>
<th>Not Before</th>
<th>Not After</th>
<th>SKI</th>
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<tr>
<td>1</td>
<td>1</td>
<td>CN = TeliaSonera Root CA v1 O = TeliaSonera</td>
<td>0095BE16A0F7 2E48F17839827 2FA8BCD96</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha1RSA</td>
<td>18 October 2007</td>
<td>18 October 2032</td>
<td>F08F593800B3F5 8F5A960CD5E5BF A7BAA17E81312</td>
<td>DD6936FE21F8F077 C123A1A521C12224F 7225SB73E037A2606 93E8A2B8F0A389</td>
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<td>F08F593800B3F5 8F5A960CD5E5BF A7BAA17E81312</td>
<td>E9563581E178B290F 23A7494655EB0DB9 81E3D4A3956D604 684CD9B1689C9</td>
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<td>72ACE43379A4 587F6FDAC1D9E D6C72F6D92439</td>
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<td>2F493C294FD707 25F9C68CD564F5 663D12832295</td>
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**Amstelveen, 26 June 2020**

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<td>9E19FFE50D3AFE097153F69F1D5A3CA0009493</td>
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