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 2020 to 31 March 2021 Telia has:

- Disclosed its Business, Key Life Cycle Management, Certificate Life Cycle Management, and CA Environmental Control practices in its:
  - Certificate Policy and Certification Practice Statement for Telia Client Certificates, version 2.0, dated February 2021
  - Certificate Policy and Certification Practice Statement for Telia Server Certificates, version 3.0, dated February 2021

- 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:
  - the integrity of keys and certificates it manages is established and protected throughout their life cycles;
  - 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 v2.2.1, 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, 28 June 2021

Telia Company AB

*Original signed by*

Tomi Hautala

Head of Trust 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>0095BE16A0F7E2 46F17B398272FA8 BCD96</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha1RSA</td>
<td>18 October 2007</td>
<td>18 October 2032</td>
<td>F08F593800B3F58 F9A960CD5E6BFA7 BAA17E81312</td>
<td>DD6936FE21F8F077C 123A1A52C12224F72 255B73E03A7260693E 8A24B0FA38</td>
<td>Cross-certificate</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>CN = TeliaSonera Root CA v1 O = TeliaSonera</td>
<td>Sonera Class2 CA</td>
<td>87ED2E1A28264A C519AA3AEBB90D A2CB</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>5 December 2014</td>
<td>5 April 2021</td>
<td>F08F593800B3F58 F9A960CD5E6BFA7 BAA17E81312</td>
<td>E9563851712B290F2 3A74934653E80D987 E3D4A9056D604684 CD0B1698C89</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>CN = Sonera Class2 CA O = Sonera C = FI</td>
<td>Self-signed</td>
<td>01675F27D6FE7A E3E4ACBE095B05 9E</td>
<td>RSA</td>
<td>2048 bits</td>
<td>sha1RSA</td>
<td>16 April 2001</td>
<td>16 April 2021</td>
<td>4AA0AA5884D35E 3C</td>
<td>790BB403141C38100B E58D07358077FBFCF 8518A0095337105BA3 6B153DD927</td>
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</tr>
<tr>
<td>3</td>
<td>1</td>
<td>CN = Telia Root CA v2 O = Telia Finland Oyj C = FI</td>
<td>Self-signed</td>
<td>01675F82BE0017D E4E4ACBE095B05 9E</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>29 November 2018</td>
<td>29 November 2043</td>
<td>72ACE43379AA44 87F6F6DAC19E989E C72F86D82439</td>
<td>242B69742FCB1E5B2 ABF98980B45721875 4E5B49917865736 21F6A74B82C</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>CN = Telia Root CA v2 O = Telia Finland Oyj C = FI</td>
<td>TeliaSonera Root CA v1</td>
<td>01675F82BE0017D E895559376EB1F 9</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>29 November 2018</td>
<td>29 November 2032</td>
<td>72ACE43379AA44 87F6F6DAC19E989E C72F86D82439</td>
<td>242B69742FCB1E5B2 ABF98980B45721875 4E5B49917865736 21F6A74B82C</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>CN = TeliaSonera Server CA v2 O = TeliaSonera C = FI</td>
<td>4C46DAF6DBF87F 804F84817C8FEA9 72B6</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>16 October 2014</td>
<td>16 October 2032</td>
<td>2F493C294FD7072 5F9C68C564F6F6 63D12832295</td>
<td>D721110388CA6F20B B9FD1A8DBA4EB8 C16392A3DE88D97C5 53EEAC0FACCAAC</td>
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</tr>
<tr>
<td>CA #</td>
<td>Cert #</td>
<td>Subject</td>
<td>Issuer</td>
<td>Serial</td>
<td>Key Algorithm</td>
<td>Key Size</td>
<td>Digest Algorithm</td>
<td>Not Before</td>
<td>Not After</td>
<td>SKI</td>
<td>SHA2 Fingerprint</td>
<td>Other Information</td>
</tr>
<tr>
<td>------</td>
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</tr>
<tr>
<td>5</td>
<td>1</td>
<td>CN = TeliaSonera Gateway CA v2</td>
<td>TeliaSonera Root CA v1</td>
<td>00863C756411958 54FB43138A0A0C F8AA3</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>16 October 2014</td>
<td>16 October 2032</td>
<td>87AAE313129F118 BCA68CD1E2D4C 29A8FA101ACB</td>
<td>46226B7B9E02CA8F 5D85D67ED8CB4B19C 483B2058BB16242199 D540CABE9268</td>
<td>Revoked (cessationOfOperation) 28 April 2021</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>CN = Telia Domain Validation SSL CA v1</td>
<td>TeliaSonera Root CA v1</td>
<td>0161AE2005CE3F 127EF88DD7251B B1</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>19 February 2018</td>
<td>16 October 2032</td>
<td>496C325373C5DED 2BE3A2AB9C0BC9 5DE495D4925F</td>
<td>D75F8BC0DB4B29382 145499A61148659CF2 9A967E2AE470B498A 1799788A2884</td>
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<td>7</td>
<td>1</td>
<td>CN = Telia Domain Validation CA v3</td>
<td>Telia Root CA v2</td>
<td>01675FDE7E418 11E2CD76B0CDB5 0A</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>29 November 2018</td>
<td>29 November 2043</td>
<td>5BF1EE298D31B2 3B3AE017CA407 E93F82421FA3</td>
<td>A7E83056E9B3D9DDB 1816B95518F6A5E5A1 DFDFA28F60533B1C8 50855EAA4263</td>
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<td>8</td>
<td>1</td>
<td>CN = Telia Domain Validation CA v2</td>
<td>TeliaSonera Root CA v1</td>
<td>016584E34A38D9 E963EBED21747 B4</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>29 August 2018</td>
<td>18 October 2032</td>
<td>ED3D749C2C53BB 71937B4B11F6B89 1E282F992DB</td>
<td>5B312B7E11B70D07C 1E0A8B99F08D007489 66098C52A85A06A08 22BBE59A02C</td>
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</tr>
<tr>
<td>9</td>
<td>1</td>
<td>CN = Telia Server CA v3</td>
<td>Telia Root CA v2</td>
<td>01675F878F10F34 9257F16B3731F7A</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>29 November 2018</td>
<td>29 November 2043</td>
<td>46668D00E72316B 0EA4F05EB965AD EA5EEC97EA4</td>
<td>1281AD0FABE883F20 9E9636446D1A80C373 DAA766C813A270FA D48F5F5E89A</td>
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</tr>
<tr>
<td>CA #</td>
<td>Cert #</td>
<td>Subject</td>
<td>Issuer</td>
<td>Serial</td>
<td>Key Algorithm</td>
<td>Key Size</td>
<td>Digest Algorithm</td>
<td>Not Before</td>
<td>Not After</td>
<td>SKI</td>
<td>SHA2 Fingerprint</td>
<td>Other Information</td>
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<tr>
<td>10</td>
<td>1</td>
<td>CN = TeliaSonera Class 1 CA v2</td>
<td>TeliaSonera Root CA v1</td>
<td>00FD41DD7FD19F3E9F85D9E437133D4DB</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>16 October 2014</td>
<td>16 October 2032</td>
<td>D147228FBCBA85D1AFE2641466ECB824B657D8AE4</td>
<td>B95AE54F83E3ABFB057ACC1B1266D68C7A3FA774015FA128D60CD11AE280</td>
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<td>11</td>
<td>1</td>
<td>CN = TeliaSonera Class 2 CA v2</td>
<td>TeliaSonera Root CA v1</td>
<td>637C0BD785A5BF29DA602D7C4D7A70B1</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>16 October 2014</td>
<td>16 October 2032</td>
<td>9E19FFE50D3AF0097153F69F1DCA3CA0C9483</td>
<td>09282943D321949F4A9B6C6640BF543AA27D7BECFA048D75E59093E15A72EA5</td>
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<td>12</td>
<td>1</td>
<td>CN = TeliaSonera Email CA v4</td>
<td>TeliaSonera Root CA v1</td>
<td>52EBA0D8B74B46EB8557CD6DAA23DDDD</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>16 October 2014</td>
<td>16 October 2032</td>
<td>89862A82D178FAF0A62954387956FD3776019F0D1F2656ACB382739A3B087C747A5B5CB945A32F16286149C308783C7E06AF8AE8</td>
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<td></td>
</tr>
<tr>
<td>13</td>
<td>1</td>
<td>CN = Ericsson NL Individual CA v3</td>
<td>TeliaSonera Root CA v1</td>
<td>53B87E83E19C992B9309B491CECB8EB</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>27 October 2015</td>
<td>27 October 2025</td>
<td>1C7B199E979C7AC2030B8DCE59E6A3DBD20A5</td>
<td>63ED95B17FFDCB7AE30FEC8A874653099264E21B268D636D957966F0B04BE43</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>1</td>
<td>CN = Ericsson NL Individual CA v2</td>
<td>TeliaSonera Root CA v1</td>
<td>00A00CBBCC9B9998BCE23A70F47C1C059</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha1RSA</td>
<td>27 May 2014</td>
<td>27 May 2024</td>
<td>B10D2CAD44B67F8602C32F6F06CA0E76717F4B3724D06B96E70BC8CE21FFC6A5836B5A894EE2ZCB9F89CD64EABCDD123C4E</td>
<td>Revoked 28 September 2020</td>
<td></td>
</tr>
<tr>
<td>CA #</td>
<td>Cert #</td>
<td>Subject</td>
<td>Issuer</td>
<td>Serial</td>
<td>Key Algorithm</td>
<td>Key Size</td>
<td>Digest Algorithm</td>
<td>Not Before</td>
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<td>SKI</td>
<td>SHA2 Fingerprint</td>
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<tr>
<td>15</td>
<td>1</td>
<td>CN = Telia Document Signing CA v3</td>
<td>Telia Root CA v2</td>
<td>016D1A4D94951B A329A0C26D06250</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>10 September 2019</td>
<td>29 November 2043</td>
<td>3617108E9E869F2 67FD57542FAD37 BC29059DE54</td>
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<td></td>
</tr>
<tr>
<td>16</td>
<td>1</td>
<td>CN = Telia Class 3 CA v1</td>
<td>Telia Root CA v2</td>
<td>0175bb1dd52f06c82a85f5b18d24</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>12 November 2020</td>
<td>25 November 2043</td>
<td>19be618a5f34bfff9 187b75f5ed525630 90b50c4</td>
<td>E7340DC9475E87C4E 5A4572C82604C5EFF 9BF608231C54869431 73B26A4CAFCC</td>
<td></td>
</tr>
</tbody>
</table>
To the management of Telia Company AB

Amstelveen, 28 June 2021

Subject: Independent Auditor’s Report WebTrust for CAs

We have been engaged, in a reasonable assurance engagement, to report on Telia Company AB’s (Telia) management’s assertion that for its Certification Authority (CA) operations in Finland and Sweden, throughout the period 1 April 2020 through 31 March 2021 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:
  - Certificate Policy and Certification Practice Statement for Telia Client Certificates, version 2.0, dated February 2021
  - Certificate Policy and Certification Practice Statement for Telia Server Certificates, version 3.0, dated February 2021

- 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
  - 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 2.2.1 – November 2020.
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 v2.2.1.

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 (IT Auditors Association in The Netherlands) 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.

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 2020 through 31 March 2021, 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 v2.2.1.

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 v2.2.1, nor the suitability of any of Telia’s 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, 28 June 2020

Original signed by

drs. ing. R.F. Koorn RE CISA
Partner
### Attachment A: List of CAs in scope

The following CAs were in scope of the WebTrust for CAs Audit:

<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>0095BE16A0F7 2E46F1B39B2 72F88BCD96</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha1RSA</td>
<td>18 October 2007</td>
<td>18 October 2032</td>
<td>F08F593800B3F58 F9A960CD5EBA7 BAA17E81312</td>
<td>DD6936FE21F8F077C123A1 A521C12224F72258B75E03 A7260693E8A24B0FA389</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>CN = TeliaSonera Root CA v1 O = TeliaSonera</td>
<td>Sonera Class2 CA</td>
<td>87ED2E1A282 64AC519AA3A EBB90DA2CB</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RSA</td>
<td>5 December 2014</td>
<td>5 April 2021</td>
<td>F08F593800B3F58 F9A960CD5EBA7 BAA17E81312</td>
<td>E9563581E712B290F23A749 346535E80D981E34A39D5 6D604684CD0B1698C89 Cross-certificate</td>
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<tr>
<td>2</td>
<td>1</td>
<td>CN = Sonera Class2 CA O = Sonera C = FI</td>
<td>Self-signed</td>
<td>1D</td>
<td>RSA</td>
<td>2048 bits</td>
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<td>16 April 2001</td>
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<td>4A0A5884D35E3C</td>
<td>7908B40314C13B100B518D 0735807FFCF8518A0095 337105B6368153DD927</td>
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<td>3</td>
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<td>CN = Telia Root CA v2 O = Telia Finland Oyj C = FI</td>
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<td>01675F27D6FE 7AE3E4ACBE0 95B059E</td>
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<td>sha256RSA</td>
<td>29 November 2018</td>
<td>29 November 2043</td>
<td>72ACE43379AA45 87F6FDAC19ED6 C72F86D82439</td>
<td>234269742FC81E582ABF98 898B45721975445E8B4D991 178657361F6A7BA82C</td>
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<td>01675F82BE00 17DE8955A937 6EB1F9</td>
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<td>4096 bits</td>
<td>sha256RSA</td>
<td>29 November 2018</td>
<td>18 October 2032</td>
<td>72ACE43379AA45 87F6FDAC19ED6 C72F86D82439</td>
<td>EF6F29F63662BD475312 2F41F3419E7C287587B8E 4A9807AD5894658E7F Cross-certificate</td>
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## WebTrust for CAs

**Amstelveen, 28 June 2021**

<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>
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<th>Not After</th>
<th>SKI</th>
<th>SHA2 Fingerprint</th>
<th>Other Information</th>
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<tr>
<td>4</td>
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<td>TeliaSonera Root CA v1</td>
<td>4C462AF6DBF BF7804F84C17 CFEA972B6</td>
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<td>A</td>
<td>16 October 2014</td>
<td>16 October 2032</td>
<td>2F493C294FD70D29F9C68CD564F563D12832295</td>
<td>D721110388CA6F20BA9FD1A8DBA4EF8BC16392A3DEBAD9C53EEAF0ACACAA</td>
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<td>00863C756411 95854FB43138 A0A0CF8AA3</td>
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<td>16 October 2014</td>
<td>16 October 2032</td>
<td>87AAE313129F118BCA68CD1ED2CD498FA101ACB</td>
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<td>sha256RS</td>
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<td>16 October 2032</td>
<td>496C32537C5DED2BE3A2AB90C0BC95DE495D4925F</td>
<td>D75F8BC0DB4293821549</td>
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<td>5B81EE298D31B23B3AE017CBA407E93FB82421FA3</td>
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<td>18 October 2032</td>
<td>ED3D749C2C53BB71937B4B11F68B81E282F992DB</td>
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Revoked (cessation Of Operation) 28 April 2021

Revoked 17 April 2020
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<tbody>
<tr>
<td>9</td>
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<td>CN = Telia Server CA v3 O = Telia Finland Oyj C = FI</td>
<td>Telia Root CA v2</td>
<td>01675FE78F10 F349257F16B3 731F7A</td>
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<td>4096 bits</td>
<td>sha256RS</td>
<td>29 November 2018</td>
<td>29 November 2043</td>
<td>46668D0E072316B0EAF05EB965AD</td>
<td>EA5EEC97EA4</td>
<td>1281AD8FABE883F209E963 6448D1A80C373DAA7686C8 13A270FAD48F5F5E589A</td>
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<td>TeliaSonera Root CA v1</td>
<td>00FD41DD7FD</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RS</td>
<td>16 October 2014</td>
<td>16 October 2032</td>
<td>2C147228FCBAA85D</td>
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<td>84B657D8AE4</td>
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<td>11</td>
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<td>TeliaSonera Root CA v1</td>
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<td>RSA</td>
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<td>sha256RS</td>
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<td>16 October 2032</td>
<td>9E19FFE50D3A9E60</td>
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<td>TeliaSonera Root CA v1</td>
<td>00FD41DD7FD</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RS</td>
<td>16 October 2014</td>
<td>16 October 2032</td>
<td>38862A82D178FAF</td>
<td>0A629543587956F</td>
<td>0928943D321949F4A9BC</td>
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<td>CN = Ericsson NL Individual CA v3 O = Ericsson C = SE</td>
<td>TeliaSonera Root CA v1</td>
<td>00FD41DD7FD</td>
<td>RSA</td>
<td>4096 bits</td>
<td>sha256RS</td>
<td>27 October 2015</td>
<td>27 October 2025</td>
<td>1C7B199E979C76</td>
<td>AC203DDBDECE9</td>
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<td>RSA</td>
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<td>sha1RSA</td>
<td>27 May 2014</td>
<td>27 May 2024</td>
<td>B10DCA4D46B7AF</td>
<td>8602C32F60CA07671F4B37</td>
<td>24D06B967E0BCC8C6E21FF</td>
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Subject: Independent Auditor’s Report  WebTrust for CAs
Amstelveen, 28 June 2021
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</table>
| 15   | 1      | CN = Telia Document Signing CA v3  
O = Telia Finland Oyj  
C = FI | Telia Root CA v2 | 016D1A4D949  
51BA3294A0C  
26D06250 | RSA | 4096 bits | sha256RS | A | 10 September 2019 | 29 November 2043 | 3617108E9E869F2  
67FD57542FAD37  
BC29059DE54 | 6924A4DD82948DA53F6FB9  
33E895A0F6581C8DBDEBA  
BB36FC11CAC25E9C035A | |

| 16   | 1      | CN = Telia Class 3 CA v1  
O = Telia Company AB  
C = SE | Telia Root CA v2 | 0175bb1dd52f  
06c82a8585fb1  
8d24 | RSA | 4096 bits | sha256RS | A | 12 November 2020 | 25 November 2043 | 19be618a5f34bff9  
187b75d5d25630  
90b50c4 | E734DCC9475E87C4E5A457  
2C82640C56EF98F60B231C  
5486943173B26A4CAFCC | |