



REPORT OF THE INDEPENDENT ACCOUNTANT

To the management of SSL Corp d/b/a SSL.com (“SSL.com”):

Scope

We have examined SSL.com management’s [assertion](#) that for its Certification Authority (“CA”) operations in Houston, Texas, for its CAs enumerated in [Attachment B](#), SSL.com has:

- disclosed its extended validation SSL (“EV SSL”) certificate lifecycle management business practices in the applicable versions of its SSL.com Certificate Policy and Certification Practice Statement (“CP/CPS”) as enumerated in [Attachment A](#), including its commitment to provide EV SSL certificates in conformity with the CA/Browser Forum Guidelines on its [repository](#), and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and EV SSL certificates it manages is established and protected throughout their lifecycles; and
 - EV SSL subscriber information is properly authenticated

throughout the period July 1, 2024 to June 30, 2025 based on the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL v1.8](#).

Certification Authority’s Responsibilities

SSL.com’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 - Extended Validation SSL v1.8](#).

Independent Accountant’s Responsibilities

Our responsibility is to express an opinion on management’s assertion based on our examination. Our examination was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants. Those standards require that we plan and perform the examination to obtain reasonable assurance about whether management’s assertion is fairly stated, in all material respects. An examination involves performing procedures to obtain evidence about management’s assertion. The nature, timing, and extent of the procedures selected depend on our judgment, including an assessment of the risks of material misstatement of management’s assertion, whether due to fraud or error. We believe that the evidence we obtained is sufficient and appropriate to provide a reasonable basis for our opinion.

We are required to be independent and to meet our other ethical responsibilities in accordance with relevant ethical requirements relating to the engagement.



The relative effectiveness and significance of specific controls at SSL.com 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. Our examination did not extend to controls at individual subscriber and relying party locations and we have not evaluated the effectiveness of such controls.

Inherent Limitations

There are inherent limitations in the effectiveness of any system of internal control, including the possibility of human error and the circumvention of controls. For example, because of their nature, controls may not prevent, or detect unauthorized access to systems and information, or failure to comply with internal and external policies or requirements. Also, the projection to the future of any conclusions based on our findings is subject to the risk that controls may become ineffective.

Independent Accountant's Opinion

In our opinion, management's assertion, as referred to above, is fairly stated, in all material respects.

This report does not include any representation as to the quality of SSL.com's services other than its CA operations in Houston, Texas, nor the suitability of any of SSL.com's services for any customer's intended purpose.

Use of the WebTrust Seal

SSL.com's use of the WebTrust for Certification Authorities - Extended Validation SSL 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.

BDO USA, P.C.

September 22, 2025



**ATTACHMENT A - CERTIFICATE POLICY/CERTIFICATION PRACTICE STATEMENT
VERSIONS IN-SCOPE**

| Policy Name | Policy Version | Policy Date |
|---|-----------------------|--------------------|
| SSL.com Certificate Policy and Certification Practice Statement | Version 1.20 | April 18, 2024 |
| SSL.com Certificate Policy and Certification Practice Statement | Version 1.21 | September 13, 2024 |
| SSL.com Certificate Policy and Certification Practice Statement | Version 1.22 | December 13, 2024 |
| SSL.com Certificate Policy and Certification Practice Statement | Version 1.23 | March 4, 2025 |
| SSL.com Certificate Policy and Certification Practice Statement | Version 1.24 | April 28, 2025 |



ATTACHMENT B - IN-SCOPE CAs

| Root CAs | | | | | |
|---|----------------------------|---|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock EV Root Certification Authority ECC | 2E 76 4B E9 E9 15 34 58 | 681B729D0267B2B5781645153F3F9351F9C5E4F9AB28A5AC1B975CBB43237270 | DA 50 C9 1F B4 05 56 C4 AA 77 5E 82 FF C9 5D 0E 04 BC 2F 0D BB 1A B6 D8 FF 16 0C AA 36 D3 B1 8E | 2/12/2016 | 2/12/2041 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock EV Root Certification Authority RSA | 7C FD AE B1 74 65 EE F1 | 0B4DF5C46F414D455ABE028205FC37F1F989A8EE31920E3F929DC82337108014 | 3B B2 05 9C 6F 2D 49 C9 AD A5 24 84 6B 16 C6 DE BC C9 7B 51 FB 62 7E F9 3F F3 84 71 F5 43 E5 F3 | 2/12/2016 | 2/12/2041 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock Root Certification Authority ECC | 38 00 94 EB FC E2 DB F4 | BAA4F4E23C70DC1DE619CC3DDEF250A1D5073D1B9B0EBC6B64C046579871E1A3 | 96 D0 0C 2F 31 44 88 91 CB B2 3E E3 21 8D 3A B9 4A BD 6C 1C 81 D4 D6 27 B1 C9 7C 69 9E BF 88 AE | 2/12/2016 | 2/12/2041 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock Root Certification Authority RSA | 2E 06 F0 8D FA FF 1E 9B | 167241D2019BDDDB4DE0AD7C5CA8499CC6D06E40301E1007875006C37D4BFD5BD | 4D FD 2C BF 1E 31 DB 37 DB 58 7D A4 00 C7 E2 AC EF F6 10 DB C9 A9 BF 5C 9B 52 C5 CD 80 98 E2 D3 | 2/12/2016 | 2/12/2041 |
| C=US, ST=Texas, L=Houston, O=Cyberdata LLC, CN=ecoss.com Root Certification Authority ECC R1 | 10 88 83 2D 3F FF E9 00 | 024F53114851ADB33EACC0F07C75CFE66E95BD6360627272E062FD26683A5E6C | 56 D0 A4 CA 61 E3 9D E9 F3 69 94 08 B5 CA 98 4D 91 57 49 F7 80 D2 BE 20 42 18 6E 62 EE A0 1D 66 | 5/31/2017 | 5/30/2042 |
| C=US, ST=Texas, L=Houston, O=Cyberdata LLC, CN=ecoss.com Root Certification Authority RSA R1 | 45 CA BA 64 C1 8F 49 BE | D72FD588F611A247E440A72A5B7D0772E8F846E456E64FCFFD44BEAF14DFC2D9 | 16 95 ED 67 97 52 FA 53 8B 1D CA 21 DD C5 12 BD 39 D8 76 92 C0 66 37 34 C2 9B 6F 7B 48 56 46 38 | 5/31/2017 | 5/30/2042 |



| Root CAs | | | | | |
|---|-------------------------|--|---|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com Root Certification Authority ECC | 75 E6 DF CB C1 68 5B A8 | 3417BB06CC6007DA1B961C920B8AB4CE3FAD820E4AA30B9ACBC4A74EBDCEBC65 | A3 20 F4 D5 34 D7 BE 97 C1 AE 8D D0 49 97 35 BC 89 5C 32 3A DD 2D 38 8B FC CF 66 2C 23 D7 F9 9A | 2/12/2016 | 2/12/2041 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com Root Certification Authority ECC R2 | 21 E2 5B 95 AD 24 99 74 | FECF02BC40C1C8846478D022789CB8BE031B4BB7CE477B712CAE6BE06DC8A452 | E2 97 29 01 3B 7B 50 4C 48 5C EE 0F C6 32 41 37 C6 F8 BA 17 3D 39 A9 77 29 30 BE 96 56 47 65 08 | 5/31/2017 | 5/30/2042 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority ECC | 2C 29 9C 5B 16 ED 05 95 | 22A2C1F7BDED704CC1E701B5F408C310880FE956B5DE2A4A44F99C873A25A7C8 | 34 87 67 CD AD 3B DD 28 B2 B8 DD 53 51 AE C3 0C 68 CE C5 CD 69 D2 76 DF 38 27 DB C4 F5 80 64 64 | 2/12/2016 | 2/12/2041 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority ECC R2 | 1E A0 54 BB 00 4F 1E F2 | 5D6DE7323F82EC96A1DC3ACEADF2685696EDC2431DB271C4C917FCE1CDB50299 | 95 62 FE 00 5C CA AA 06 BE 27 52 F8 45 E3 B3 48 57 F9 50 CA BE 5A C1 50 F9 53 81 F2 A8 06 30 F3 | 5/31/2017 | 5/30/2042 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority RSA R2 | 56 B6 29 CD 34 BC 78 F6 | 2E7BF16CC22485A7BBE2AA8696750761B0AE39BE3B2FE9D0CC6D4EF73491425C | 7C D6 7C 24 8F 69 D8 3F C2 F9 BB 01 DC B1 F7 AD 67 A3 63 D0 46 04 37 96 D0 98 4C 3A 23 1F 6B B0 | 5/31/2017 | 5/30/2042 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority RSA R2 | 4E F2 32 17 6D 9B EA 14 | 89EFEB25096BA4CCD40AF4FB8756F0A4843995974822020914C4E859D932B7F3 | 7C D6 7C 24 8F 69 D8 3F C2 F9 BB 01 DC B1 F7 AD 67 A3 63 D0 46 04 37 96 D0 98 4C 3A 23 1F 6B B0 | 4/6/2017 | 4/5/2042 |



| Root CAs | | | | | |
|---|---|--|---|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority RSA R3 | 24 CC 8D FC BE 53 22 03 | ACC733F67845FF98F7FAB106A3155014EB2C93685860BC9C5356AA52865E530A | FE 5D 9F A5 92 7A 67 EF 64 A3 63 9C 1F D8 EA E2 F1 6E 40 F0 1C 57 53 88 39 1D 60 8D 76 F9 DF 53 | 5/31/2017 | 5/30/2042 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com Root Certification Authority RSA | 7B 2C 9B D3 16 80 32 99 | 85666A562EE0BE5CE925C1D8890A6F76A87EC16D4D7D5F29EA7419CF20123B69 | D1 C4 53 77 EB DC D6 18 CD 16 51 DC 2E 02 C2 1D 75 1E 5A A9 FC D1 B3 43 1F F6 EC F6 A3 13 48 FA | 2/12/2016 | 2/12/2041 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com Root Certification Authority RSA R2 | 5B 37 98 CA 35 9B 9B EE | 69305226F30AECB43C95127C3AE243097030C1B3E87504D0A60B2A03F0009DF7 | E1 2E C3 18 9C FA E9 F2 01 64 ED 19 71 22 D5 98 DC AC 0D A8 49 14 1C 11 83 AD 54 31 C9 1A 6B 1A | 5/31/2017 | 5/30/2042 |
| C=US, O=SSL Corporation, CN=SSL.com TLS RSA Root CA 2022 | 6F BE DA AD 73 BD 08 40 E2 8B 4D BE D4 F7 5B 91 | 8FAF7D2E2CB4709BB8E0B33666BF75A5DD45B5DE480F8EA8D4BFE6BEBC17F2ED | 2B CF 55 3A 66 F5 70 90 0D DD 32 BA 6D FE 1E CC 06 C9 18 2D 66 2D C1 B6 0E 1F 7B 76 7C 2B DD 54 | 8/25/2022 | 8/19/2046 |
| C=US, O=SSL Corporation, CN=SSL.com TLS ECC Root CA 2022 | 14 03 F5 AB FB 37 8B 17 40 5B E2 43 B2 A5 D1 C4 | C32FFD9F46F936D16C3673990959434B9AD60AAFBB9E7CF33654F144CC1BA143 | 1B F0 0D 5C 8F 13 C0 94 DD 17 E0 05 04 CF 08 88 85 0F 12 FD 06 7F A1 F9 2C 0F DB F6 0B 86 E3 21 | 8/25/2022 | 8/19/2046 |



| Cross-Signed CAs | | | | | |
|--|---|--|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C = US, ST = Texas, L = Houston, O = SSL Corporation, CN = SSL.com EV Root Certification Authority ECC | 7F A3 2B 28 B1 C9 AB 6C | 60EF412EABE7C3FC6399EED1B633B777747515B29D721B963DD258BC498AB292 | 34 87 67 CD AD 3B DD 28 B2 B8 DD 53 51 AE C3 0C 68 CE C5 CD 69 D2 76 DF 38 27 DB C4 F5 80 64 64 | 2/14/2019 | 2/12/2027 |
| C = US, ST = Texas, L = Houston, O = SSL Corporation, CN = SSL.com Root Certification Authority ECC | 3F 2C 60 8C 5C F9 63 21 | 06B9722A699C57DFF1869F430B479BB6EB49AAE1184EAC9C5325C1334A34EA4C | A3 20 F4 D5 34 D7 BE 97 C1 AE 8D D0 49 97 35 BC 89 5C 32 3A DD 2D 38 8B FC CF 66 2C 23 D7 F9 9A | 2/14/2019 | 2/12/2027 |
| CN=SSL.com TLS ECC Root CA 2022,O=SSL Corporation,C=US | 3B 0E 70 1D 53 CB B7 14 50 A2 31 96 0F 41 99 9C | AC25863BA43B96AEA864BA2AA256022AF9D38DC93E97437F3DE603CC487306CB | 1B F0 0D 5C 8F 13 C0 94 DD 17 E0 05 04 CF 08 88 85 0F 12 FD 06 7F A1 F9 2C 0F DB F6 0B 86 E3 21 | 11/7/2023 | 11/3/2038 |
| CN=SSL.com TLS RSA Root CA 2022,O=SSL Corporation,C=US | 32 6F 64 E9 70 34 C6 F7 A3 94 6A 50 A3 ED 04 FE | 6BCB147D41E9B577F40002A5C4BA08846737805AAFE8554DD0E72204F6007BA7 | 2B CF 55 3A 66 F5 70 90 0D DD 32 BA 6D FE 1E CC 06 C9 18 2D 66 2D C1 B6 0E 1F 7B 76 7C 2B DD 54 | 11/7/2023 | 11/3/2038 |
| C=US, O= SSL Corporation, CN=SSL.com EV TLS Issuing ECC CA R1 | A5 CD B3 B6 45 32 1F 63 F5 4F A6 CB 45 78 91 BC | 3B8C379F23FA22256A0E1F44D92F0A0FC770BCDE9F8557F160149BCDA22EDE78 | 70 2A B0 CD E3 26 71 8F 46 03 0A 06 D4 21 60 B8 45 07 3C 8F 0C 10 69 E0 D6 25 A6 7C F8 20 E8 7E | 6/21/2024 | 12/31/2028 |



| Cross-Signed CAs | | | | | |
|--|---|--|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US,O=SSL Corporation,CN=SSL.com EV TLS Issuing RSA CA R1 | AE 6A 94 6A 4C 88 DE 0F B5 03 22 BF 40 D9 93 D2 | 1DAF812025E2376279C074050EE35E1B2D909F8B57A00F82B7B5D28120C3582A | DD E6 CD 5A 44 7A AA 14 AC 57 39 37 5A 46 D7 AA 65 B4 6A B7 8D C4 2F BE E9 47 94 FB E1 00 F4 8A | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com EV TLS Transit ECC CA R2 | 75 E0 A2 E4 F7 06 85 F7 C7 47 E3 B0 7D 0C B8 A6 | 7FE5572FBE934AFC4151651FEF098B9940A47966C4085577314D7104CDE84329 | 62 19 B0 41 94 71 B8 C3 0B 4F A4 0A DD CA 92 07 74 82 B6 42 81 22 0A 8E 61 40 B5 50 28 B1 19 43 | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com EV TLS Transit RSA CA R2 | 58 2A 35 24 1F C8 C2 D6 5E 1A F7 4C F9 ED 0B F1 | A4270E5251691F6EC40CF774C6717E2EFEC3EB1E384607DC75836296AAA15C59 | 04 1D 09 65 CF 95 85 4B BD 9E 2E B8 3C D9 82 65 65 45 09 93 0E 2C 60 CA 8D F6 7D F8 1F 7D F3 74 | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com IV TLS Issuing ECC CA 1 | CE 50 B7 B4 5D 39 FE 9F E4 D7 C7 3E C6 B3 51 3E | E3191026C526487A05F68ADF4B8CA395C044AA6B5E72A70E8739DA71A860D0DB | 65 DE 42 14 85 9D 92 8F 06 75 20 60 BF DC 48 63 6B D0 2C 3A 65 08 A0 10 81 3E DB 46 B1 4A 71 5A | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com IV TLS Issuing RSA CA 1 | FA FA 58 86 1E 4E C5 EF 96 73 08 16 AA 16 31 FD | 1372C7B4D6AC3A438BDFC87A29D303315FF34FC5B1E73205936B7B99284A8AF5 | 9A 1C E1 0A 8D C4 10 4C 97 23 73 E2 78 E8 6D 87 47 D5 68 96 2F 5E D4 EE D7 81 D0 10 52 4D 43 5F | 6/21/2024 | 12/31/2028 |



| Cross-Signed CAs | | | | | |
|---|--|--|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation, CN=SSL.com IV TLS Transit ECC CA 1 | 0A 44 1A 47 B5 28 D8 D7 C1 29 E3 11 35 4D 38 EB | 3708FB804391C75AA5D81235C214F398C6DCA6C9492A3AFDE92A5FD92FE48FAB | 52 E8 DF D8 C3 C0 DF 92 E0 E7 40 21 AE 11 46 3C 44 4A FD 91 C3 44 9C 5C DD 79 B2 8F 8D CF 74 4B | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com IV TLS Transit RSA CA 1 | 7A 7C F7 D2 F4 B6 FC 07 27 BF 25 8D DA EB BA C8 | B90CF398E1BE2E59C6BF1E0F7F996CAB2E1533734A0BC328989C135EB19D6729 | 47 F3 B9 24 9F 5B 89 73 2D 12 79 A2 38 3A 6E 90 1B 5E 17 07 C9 33 43 17 C1 05 A2 4A C8 C9 00 B4 | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com OV TLS Issuing ECC CA 1 | 3F 43 B6 9D 7F 6B 3F E3 B5 03 4E 73 89 F1 5E 3E | D306BF0D85BD10D083A1ECA5B38D40149E5C450F996021CC08DE254D1722E619 | FF 58 09 92 DD 01 95 95 FC F2 22 65 96 78 A4 E8 11 E0 FC C2 DB 61 B6 E7 6F E6 10 9A F2 71 41 A9 | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com OV TLS Issuing RSA CA 1 | 36 63 78 92 4D 25 2F 77 05 94 21 46 4B 3D DA C4 | C28A1FDF14AE3F045FBC5E1602A01030A77236CC52267F2360899C832E975C15 | 84 08 C7 7B ED C1 CA 42 25 82 32 CD 4C E5 8B 30 34 9A 34 0E E2 58 33 01 7F DB CC 1D 01 71 05 F3 | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com OV TLS Transit ECC CA 1 | 00 84 D6 18 12 7F F7 67 6B 83 4A A0 F0 60 B7 7B 4A | 28DE5F98B2DB4C4381FDA8307AC9C355DB898966B525665A019F5D6DFE7EF1CA | 44 50 44 38 D9 86 9E 8B 41 38 CD 47 36 D3 71 D2 7A 9E A8 FA A7 70 FA E1 C5 66 6E 12 5D 12 BC 18 | 6/21/2024 | 12/31/2028 |



| Cross-Signed CAs | | | | | |
|---|--|---|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation, CN=SSL.com OV TLS Transit RSA CA 1 | 00 90 7E 82 C9 B3 8C 5A 45 BC 80 84 C3 7E 50 F5 0F | 5ABA720A2F527774D516DC12021E6248756ADF046EAE0818555E969F8E43CC1F | A3 41 D8 50 AD 5E 66 74 99 77 DA 49 E1 52 56 CD 8C 17 84 CF CA 77 BE DF 52 A9 1C 6C 08 0F C8 14 | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com TLS Issuing ECC CA R2 | 73 83 11 42 9F 73 08 97 12 CD 4A FD 6D 16 FA DD | 2DC7DDC440B6332274868C5E1DF5D15BD71E5A1861D22B6181BC1C2CBFA32B34 | 34 F4 6B 06 4F 7A B7 AE 2F 6B 2F 37 6B C2 9F EE 42 D5 F1 59 9D 8B FD 7B 42 0A 5E B3 7D BC FC F9 | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com TLS Issuing RSA CA R1 | 00 C4 F8 45 C8 27 62 91 EC C2 B3 DD 1D C7 8C 87 4D | AB3DE819F342F0A61D199D4BE86A4F7F3F2810CDDFF0B0BFF872F4D93E812CE80 | D0 52 81 57 19 F2 77 82 6A F2 FF 12 4F ED EC 8C EF 96 A0 1E CF 2C 11 29 49 D8 B1 6C 71 35 2F 88 | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com TLS Transit ECC CA 2 | 00 AD 8D 2D F6 46 81 A0 D3 64 47 EA A9 4F A2 73 C1 | FE9FB0F783EBB843109AA31DE9DA9864B6542940C307DF23180B11F1F7E108DE | 39 7C A3 F6 78 1B A8 EF 5C 8C B7 8E FF EB 7D 1A 09 76 10 FE 09 4E 75 56 1E AE 0B 13 08 45 33 DC | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com TLS Transit RSA CA 2 | 52 5D 9F 0D 96 7A 10 7D 60 AA 67 5B 3A C1 E9 C8 | EBD417F595C3F259B7455C8135293505B692C47E0F74D3BA885CE22C8875CA28 | BE 7D 1E D4 31 29 60 39 CE 59 E3 52 1F 42 24 BA FA D2 F2 22 00 13 BC 79 68 1E C4 A2 50 D4 C5 2D | 6/21/2024 | 12/31/2028 |



| Cross-Signed CAs | | | | | |
|--|---|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation, CN=SSL.com TLS RSA Root CA 2022 | 21 C2 87 B9 3E 34 20 13 C3 5B CA 09 87 59 2C B9 | AAC42585276A2BA42710CA7AF27B1369F339F24F70D9095BE956391CAAF8BA94 | 2B CF 55 3A 66 F5 70 90 0D DD 32 BA 6D FE 1E CC 06 C9 18 2D 66 2D C1 B6 0E 1F 7B 76 7C 2B DD 54 | 10/16/2024 | 12/6/2030 |
| CN=SSL.com Root Certification Authority RSA, C=US, ST=Texas, L=Houston, O = SSL Corporation | 2D 9D BD F4 60 81 8E FB 18 8B 58 EB E6 D5 5F EA | 336CD76B6C7F7878B3D4AB59B28982CBEE40804AABC9C2BEE98827B34CFFF2C0 | 2B CF 55 3A 66 F5 70 90 0D DD 32 BA 6D FE 1E CC 06 C9 18 2D 66 2D C1 B6 0E 1F 7B 76 7C 2B DD 54 | 2/18/2025 | 2/15/2040 |
| CN=SSL.com Root Certification Authority ECC, C=US, ST=Texas, L=Houston, O = SSL Corporation | 43 55 39 DF 81 B9 0D AC A3 CB 5C E4 2B EC B3 BD | 1E6EBEF80676FD20D2597C1F45A5E198DD4C4CBF3328E522837196600C319141 | 1B F0 0D 5C 8F 13 C0 94 DD 17 E0 05 04 CF 08 88 85 0F 12 FD 06 7F A1 F9 2C 0F DB F6 0B 86 E3 21 | 2/18/2025 | 2/15/2040 |



| Intermediate CAs | | | | | |
|--|----------------------------|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com RSA SSL subCA | 09 97 ED 10 9D 1F 07 FC | 527A60B02ABF3A4A5519C4F62FBBD560E3034074EEEC8B8799AA9368693FE36D | EC B7 01 E5 9F 00 4D 5C F8 AD C4 2D 21 8E 71 26 2A FC FF E1 77 7B F1 CF 8B C2 03 74 29 E3 09 A1 | 2/12/2016 | 2/12/2031 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock RSA SSL subCA | 19 EF 13 7E FD 98 37 F3 | 096CC9B323F28AA101699B04D1F75D060C26F5C3C8E3B4EAFD08F8B822D20666 | C7 1C 77 B9 5B 6B 40 6C 66 23 2A 1D F9 CE 7D F1 92 75 43 B0 96 72 1C AE 00 2F D1 54 49 94 7D 03 | 2/12/2016 | 2/12/2031 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock ECC SSL subCA | 7C C0 C4 55 70 39 20 CD | 46082EB4EB787B24FC84C02299955E3ABFD16733489D56606CC393409E4E231B | F4 4E 42 38 2D 31 64 FC E5 03 EA D2 B7 EC 04 39 B9 26 39 4C D0 59 76 CE 77 95 31 7D 32 19 27 13 | 2/12/2016 | 2/12/2031 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock EV RSA SSL subCA | 02 5B B7 0A BA 7E 81 A8 | 556361EE7D772FC1519AC60AAF628DEF8467F67315FDE00FF70494EE44D70A59 | FC 0A E8 DB DD 65 B7 C1 D4 FC 1B C5 6F 98 C3 06 4C 56 B6 6C ED 9F EF CF 82 92 E4 B9 4C DD 6A 11 | 2/12/2016 | 2/12/2031 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock EV ECC SSL subCA | 58 55 26 EE 2D AF 63 D3 | 00DAE0270B9AF7210A21158F461A432D734063D5960C84E1CC779CCB65022204 | C2 84 50 BC E9 77 49 96 09 98 84 64 DE 58 5B 56 BC BB D9 89 CD 2A 3E E1 E0 56 32 ED 98 18 5F A5 | 2/12/2016 | 2/12/2031 |



| Intermediate CAs | | | | | |
|--|--|---|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com EV SSL Intermediate CA ECC R2 | 3C 7D 3B E6 7F A3 ED 6D 30 EB D0 F0 B4 DF 83 9C | 8394E3D07EFCD1E97EA6CBA214C3A055C17DD9A7EBF8DDE0020FCDDDB76F28653 | 77 5B 4A B9 1D 9A 14 59 E1 C3 C7 91 06 83 5E 8B BB 01 E1 85 91 D6 24 26 38 49 86 07 7D FB 03 49 | 3/7/2019 | 3/3/2034 |
| C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com SSL Intermediate CA ECC R2 | 1C D7 12 12 DE 15 10 D9 12 82 DA 33 10 4A 10 2F | 948B7111AF42F546D579CFF5CE2BDEC82134DD9914842BDD80C52872EB604E39 | CC 68 00 E0 E5 38 0E 32 5D BE 94 58 52 A6 E2 E5 58 76 83 D5 B9 39 CF CF 80 A8 A1 CB D9 A4 2E C1 | 3/7/2019 | 3/3/2034 |
| C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com EV SSL Enterprise Intermediate CA RSA R2 | 72 EB 6E F3 C5 19 A7 24 08 D1 5A A2 4D EB 68 F0 | 9B25A6A7BD51BC5F5C4F06E0D1218FD370DD31FAFD5CD3B627C82F202F1B4657 | BD C2 FA 91 53 F7 8C FF 21 6D 39 F9 03 EB 72 29 ED 48 58 85 81 16 78 6F 52 F6 B7 AA 6B C4 1B 62 | 3/26/2019 | 3/22/2034 |
| C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com SSL Enterprise Intermediate CA RSA R1 | 7A 46 09 3E 23 7C BB A8 D0 21 CE 1C 70 AA F0 0C | EDAC9C45909F4DEC7BB65F0A4FBF6A8A0375E52AEDD66E06888FED7E3EDEC537 | A0 A0 29 36 90 CB DA 1C EF 07 A7 EA 37 AC 9F 5B 16 DD A3 11 76 96 F9 D5 64 BC 36 E1 CF 4C 35 65 | 3/26/2019 | 3/22/2034 |
| C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com EV SSL Intermediate CA RSA R3 | 03 A3 F4 D0 60 30 52 A3 37 CE 38 0A 88 30 31 8C | 85DB0BEED0668D04D7074000F98E84B08D0FD5429FF4A262DE7CBC1528A1A1DA | E1 5E 8A 26 FD 3D 8F 8C 02 4D D0 75 90 6F 3E AD F3 3B 5C 21 31 60 4A 62 5C 21 B3 24 D2 F9 F0 84 | 3/26/2019 | 3/22/2034 |



| Intermediate CAs | | | | | |
|---|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C = NZ, O = SafeToOpen Ltd, CN = SafeToOpen EV TLS ICA RSA R1 | 40 DB 37 04 96 43 5E 7D F5 16 8E F4 F5 7E FC DA | C2D4FDFBBD82F4A1CDAC4713E3AB0999560918D7A170DDE03F7DDBF9A288DCDC | C1 C7 A8 4F 24 9A 2C 25 D8 EC 50 00 06 53 1A D5 E0 78 15 CD 95 A1 D7 3C CD 24 22 8F E8 2D E8 AA | 10/1/2019 | 9/28/2029 |
| C = NZ, O = SafeToOpen Ltd, CN = SafeToOpen TLS ICA RSA R1 | 70 4D 71 60 F4 1F E6 87 15 D4 90 8D E4 EE 16 39 | DFCCDBF077D142D7923F6316DD411E462C7A8BC04781F2B87065A5C5E258A7E0 | B9 0E 1C CC 96 89 86 BA E2 05 D2 31 97 B4 B2 3F 05 FC 5B 2E 33 D7 66 A3 F5 9A 82 6F 79 9D 62 9A | 10/1/2019 | 9/28/2029 |
| C = GB, ST = London, L = London, O = Anson Network Limited, CN = AnsonNet TLS Issuing RSA CA R1 | 31 68 24 E5 96 BC A1 B1 14 AC 00 4A A5 5A 4F 90 | 92CE7EA7424B3E7A2C14C26E0D572ADB556E05E2B2A8BD3761C695254255856 | 98 F4 A1 44 D9 01 52 9D 55 81 7B 9A 88 86 C8 76 1F B9 95 C6 3A 9C 6E 04 BF 0F 9D C2 D8 E4 D3 A0 | 10/6/2020 | 10/4/2030 |
| C = CH, ST = Luzern, L = Luzern, O = swissns GmbH, CN = SwissNS TLS Issuing RSA CA R1 | 42 BF 6C D1 88 7B BE E8 DE BD 79 80 1E A2 D7 D0 | 37FD29C701D6977998F205153EA8A4C2E996354DF072D4984DC5D8B1F75A2B61 | 28 07 5A F8 B2 45 78 6B 46 B6 10 AA 09 E8 DE AF 61 14 02 B1 59 35 EF 9F 9A 59 0B 76 19 1D 70 97 | 10/6/2020 | 10/4/2030 |
| C = US, O = Staclar, Inc., CN = Staclar TLS Issuing CA R1 | 29 E0 FB 0E DE 5C 14 37 6C A3 2A 11 A7 34 50 4D | FE6B6F9E44B670797D52E5F16EF1BB10B49EB3AD662522FC632B37DF9A5044CD | DA 1A CA DB 62 11 09 E4 1C D2 1B A1 08 21 93 48 A6 36 47 42 E6 C9 E1 54 68 7E 00 AD 14 7A 61 47 | 6/23/2021 | 6/21/2031 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C = VN, L = Ho Chi Minh, O = Hao Quang Viet Software Company Limited, CN = MuaSSL EV TLS Issuing ECC CA R1 | 32 EF B8 E0 49 19 BF E1 6E 55 6D 2D 76 36 7E 31 | 785FD32364C457E2AEB4353AA95808F371AA8906E11C40E13C338A6B3EE73BE1 | 2A CC A6 44 8D 85 8A 1A 19 E5 CE 66 D3 4D 1B 93 3A 58 AA 4F 4E 7D 72 8C 04 FC FB 58 4A 1D A8 48 | 11/6/2021 | 11/14/2031 |
| C = VN, L = Ho Chi Minh, O = Hao Quang Viet Software Company Limited, CN = MuaSSL EV TLS Issuing RSA CA R1 | 1D DE 2C 57 C2 F0 C4 1D 99 E4 91 97 65 C7 1C 3B | 38F58CAF650CCD4F6027D1C922682891A165FEF491FC1D333FE8A9C851586D48 | D7 70 1B 4C 03 E0 4A 8E 19 11 79 7F D5 DE 77 B4 18 5D 93 FD 4E 66 9E 36 A1 9F 14 A3 C7 FE D2 0B | 11/6/2021 | 11/14/2031 |
| C = VN, L = Ho Chi Minh, O = Hao Quang Viet Software Company Limited, CN = MuaSSL TLS Issuing ECC CA R1 | 45 8E 97 B2 62 F4 01 20 90 16 B6 26 84 D2 01 4E | 623ABEC6F85A7028ACA10F5BDC5D81B56B6314DF28743FFCC84ECA32F35AE846 | 69 66 9D 0A 9E E4 31 C7 DF B9 C7 5C B6 03 76 B9 1E CE 05 99 BE 5C 92 34 F6 D3 8B C6 32 DB 86 FF | 11/6/2021 | 11/14/2031 |
| C = VN, L = Ho Chi Minh, O = Hao Quang Viet Software Company Limited, CN = MuaSSL TLS Issuing RSA CA R1 | 31 EE 6F 1D BF 75 C3 A6 00 56 3B E0 46 7A 20 3A | 52999873A3D12A4571DB9A160576A9D951AD4E4A7DA31C5C10613805E9224325 | EB AE 70 FC D6 6C 3C EE D3 11 7C 06 49 19 C7 CF 96 C6 43 7B 5E 0E 89 4A AD 30 6B 5E 18 DC 1D CC | 11/6/2021 | 11/14/2031 |
| C=CX, CN=3CX CA RSA R1,O=3CX | 63 59 AB E4 F9 BA 50 56 54 00 B6 66 1A 5C A5 CF | 4E93BCADD5D4E95331AE362DF9C6066CCA7F942A8FDE4D3EE011DE34074F5840 | 6D E9 29 EA 07 EA 97 D0 39 92 10 FD 40 9B C3 11 CD 3C EB D3 E8 3D 0D 56 8E 38 48 53 41 82 65 02 | 1/12/2022 | 1/10/2032 |

| Intermediate CAs | | | | | |
|---|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra TLS RSA CA R1 | 5E 07 E2 92 08 73 13 FE D2 41 65 A2 95 A0 1B 41 | 586A5C9836D9FB3BE863BA765A7966D940297FEC7BDD488016C7AA1EAE1F1D51 | D6 F7 71 6F 4E EF D0 2F B9 7C 1A BA 18 F6 A0 7C 7B DD C9 9D F5 13 BF 00 DA E2 A3 8D C1 E9 DD 9D | 2/28/2022 | 2/26/2032 |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra TLS ECC CA R1 | 43 BD 37 AA 55 BD 4F 67 03 46 5D 9A F4 96 99 D7 | 108162F2B35ED71C6EA9502F94B93E9754789DDE871B2AC26CE06D47207A95CC | EF B2 9D 8B C5 EB F5 4C C8 BB 96 82 B8 F9 CD DE CB CF EA 60 9D 71 29 E9 1D AD 95 E9 EF 31 D7 30 | 2/28/2022 | 2/26/2032 |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra EV TLS RSA CA R1 | 53 29 17 D7 B3 59 3F 2C F9 02 6B 1C 3D A8 E4 8E | 24E7A0475697793ABF3E0DDB04D542FFE7C93CC71D19F6067144ACA89A4CA678 | C7 26 F3 35 EF B7 42 C3 FC EC D1 B7 CE 20 A7 99 D3 10 09 28 BF 22 68 49 8F E7 FA 73 B3 F6 2D 58 | 2/28/2022 | 2/26/2032 |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra EV TLS ECC CA R1 | 20 50 ED 42 B8 85 22 A8 B0 41 C2 68 2D 71 28 0B | 7BA8F0BB49F501E9BB72E3A13708C6A933140FDC65592A37ACDE66AD07DE607E | E1 97 C9 88 41 B4 9E FB 96 76 B5 F2 5C 59 BB 23 FE 5F E6 41 8F AF 3D 7B 37 47 58 78 AF 5F 4C 1F | 2/28/2022 | 2/26/2032 |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra TLS RSA SubCA R1 | 72 14 56 C6 1F 04 10 4B 5C 2B 0F F6 00 2A 22 84 | 7FD28377C87C898E9094C93EA00BF107ABE11DB80B3D85E2B4A662697681235B | 45 3E 51 BB 8C 95 A4 0F 35 E1 1F 86 2D 7B FD 99 E3 D9 A9 7C 00 7E EA 73 F9 95 CB A4 5B 96 FF E3 | 3/4/2022 | 2/26/2032 |

| Intermediate CAs | | | | | |
|--|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra TLS ECC SubCA R1 | 4B 35 91 AC 47 79 31 02 0D 79 93 01 00 89 77 FE | 3687AF02C49731CA34FE4FDB9B5E5E0ECACD8A206956F19AFB38203AC5F0A567 | 2C 4A 68 3C 12 27 BD D3 CA BC 19 C4 BE 03 86 54 3E A7 88 5D 69 D1 2C 8F 97 C0 95 97 56 26 63 70 | 3/4/2022 | 2/26/2032 |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra EV TLS RSA SubCA R1 | 2B 0F 55 D4 E4 FC 35 4B 3A 78 B7 B6 89 C4 34 CB | 6762522E4B57AED0960574AB061F79EEA068C5AE3D815F50A971CEC4958A92B8 | 43 BB E8 1E 6A F0 FA 82 91 4B 0A 38 FB 5F 53 FF 33 2D 3E D6 03 EE 28 B1 11 CA 48 75 2A 23 EB AD | 3/4/2022 | 2/26/2032 |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra EV TLS ECC SubCA R1 | 5D E1 44 BD 52 A7 2B 75 69 E6 A9 46 F3 88 A3 BC | A36C1CC623ECF3ED899A9AC14FDD5620919858E621E6877E01EF50DA1DB6A3AB | C4 8D 38 D9 F4 FD 4E B0 A3 92 71 FE 3C EA 79 3E 84 58 CB 6F CD 7C DD 86 79 72 FA E5 1A 3D D3 BE | 3/4/2022 | 2/26/2032 |
| C=TR, O=Isimtescil Bilisim A.S., CN=TrustSafe TLS RSA SubCA R1 | 47 83 86 6C 57 49 82 F9 D9 EF 8F AD D7 A0 50 37 | 98A0C3BA1899258595D04F15D134C5732E864B755C648A48D1C17F0A260EF5A7 | FD 2A D4 19 8B 16 A4 35 B8 E2 AF E0 20 F2 F8 7B EB CA AE 82 CF BB 4F E7 D0 EC 92 66 F6 F9 83 A5 | 3/4/2022 | 2/26/2032 |
| C=TR, O=Isimtescil Bilisim A.S., CN=TrustSafe TLS ECC SubCA R1 | 71 0D BF 46 61 D9 33 7A CB 56 22 DF C2 77 CA A7 | 5EAF05CFC9A017730D01E6688D6E39710E01FDE374E74B1B25D3A48076AE5DB8 | 48 A8 E9 B6 53 47 CE 01 2F C8 0A D5 AD D4 EE A7 C3 91 90 65 86 8A 49 B7 88 59 8B 24 8E 19 44 63 | 3/4/2022 | 2/26/2032 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corp, CN=SSL.com EV TLS Transit ECC CA R1 | 11 1E 88 BA DA F8 0F 1C 4A 3D 6A 68 9B C7 64 4D | 619079F100A6BFB65CB2E98890DD0AC492B64665E254A66A529D8F5917D82AB1 | 4C 91 7F D7 CF 9C E9 AC DE F6 9B 58 A2 10 F2 56 A5 BC AA 95 C1 9C 90 C5 BF B5 62 6C 9F 0C C2 B9 | 2/28/2022 | 2/24/2037 |
| C=US, O=OCLC, Inc., CN=OCLC TLS Issuing RSA SubCA R1 | 5F 5B 37 D3 E9 61 02 5A 95 80 7C 99 45 73 AD B5 | E7527E30D473AEC3B162AFDC47095449D2DD5494CE862E2FE4F436C081262F64 | B5 32 DC 52 5C 41 EC 76 D7 AA 59 5C 72 64 E1 67 F5 BF D7 55 01 5C 6E B8 15 59 A0 E8 36 4F 77 19 | 9/22/2022 | 9/19/2023 |
| C=US, O=SSL Corporation, CN=SSL.com TLS Transit ECC CA R2 | 60 4D 8A F8 D0 0B A8 74 8B 95 58 53 17 2C 5F 2E | 5D1BC399274E649E1C72697DE91A54AD725088C5221CB61E17EE9C290BC42A92 | 39 7C A3 F6 78 1B A8 EF 5C 8C B7 8E FF EB 7D 1A 09 76 10 FE 09 4E 75 56 1E AE 0B 13 08 45 33 DC | 10/21/2022 | 10/17/2037 |
| C=US, O=SSL Corporation, CN=SSL.com TLS Transit RSA CA R2 | 20 28 1D D3 86 17 1E BF 05 20 45 B3 37 F2 BD 86 | FFE930442DFEB69CE29A908B6A639B370BD6BA6075F931AB83561D938B453A21 | BE 7D 1E D4 31 29 60 39 CE 59 E3 52 1F 42 24 BA FA D2 F2 22 00 13 BC 79 68 1E C4 A2 50 D4 C5 2D | 10/21/2022 | 10/17/2037 |
| C=US, O=SSL Corporation, CN=SSL.com EV TLS Transit ECC CA R2 | 63 49 84 8E E7 D2 44 F1 31 A6 19 CE 3A 92 1C 5D | 4CF773F955FDB7A97DB1250F2FD7BA36075A96166BB5CC417B5C021D0F70ADF2 | 62 19 B0 41 94 71 B8 C3 0B 4F A4 0A DD CA 92 07 74 82 B6 42 81 22 0A 8E 61 40 B5 50 28 B1 19 43 | 10/21/2022 | 10/17/2037 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation, CN=SSL.com EV TLS Transit RSA CA R2 | 21 71 43 8C ED C2 DD 04 73 D5 EC 40 9E 43 73 28 | 6CC95D21D4C7BA39736E4E703E4260B7EFB6DCCD91431ED5C43D7E0986B39554 | 04 1D 09 65 CF 95 85 4B BD 9E 2E B8 3C D9 82 65 65 45 09 93 0E 2C 60 CA 8D F6 7D F8 1F 7D F3 74 | 10/21/2022 | 10/17/2037 |
| C=US, O=SSL Corporation, CN=SSL.com TLS Issuing ECC CA R2 | 5D 74 43 B9 94 D3 21 F2 67 F2 04 F1 84 4A C7 32 | 7F3EE6366236EDE6C1F7C21C443C644D32153EDAA9357C3A6DA879CDF2A6B0B6 | 34 F4 6B 06 4F 7A B7 AE 2F 6B 2F 37 6B C2 9F EE 42 D5 F1 59 9D 8B FD 7B 42 0A 5E B3 7D BC FC F9 | 10/21/2022 | 10/18/2032 |
| C=US, O=SSL Corporation, CN=SSL.com TLS Issuing RSA CA R1 | 26 B9 FF E4 59 6F A6 1E 1A F2 1C 63 D6 72 74 8A | BFBC39E9FA2B84C9A92337E2344EE2381D8D3D3AE8EA75EF4E48E5807ED80C69 | D0 52 81 57 19 F2 77 82 6A F2 FF 12 4F ED EC 8C EF 96 A0 1E CF 2C 11 29 49 D8 B1 6C 71 35 2F 88 | 10/21/2022 | 10/18/2032 |
| C=US, O=SSL Corporation, CN=SSL.com EV TLS Issuing ECC CA R1 | 58 3D 15 21 7B 32 62 7E 14 E5 48 DF 13 50 81 A9 | 68255D5EA52D2CA9A0B1F8EFF8F446CECC95A80A5D880DB681F1630C0B4B214D | 70 2A B0 CD E3 26 71 8F 46 03 0A 06 D4 21 60 B8 45 07 3C 8F 0C 10 69 E0 D6 25 A6 7C F8 20 E8 7E | 10/21/2022 | 10/18/2032 |
| C=US, O=SSL Corporation, CN=SSL.com EV TLS Issuing RSA CA R1 | 3A 68 0D CA 7D 82 C0 83 4B 32 89 D1 2A 7F 00 F4 | ECBD2002FB15D690EB29CCA7371D97F84FAE7F1FF67BD039323BADAF5CAD9148 | DD E6 CD 5A 44 7A AA 14 AC 57 39 37 5A 46 D7 AA 65 B4 6A B7 8D C4 2F BE E9 47 94 FB E1 00 F4 8A | 10/21/2022 | 10/18/2032 |



| Intermediate CAs | | | | | |
|---|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US,O=SSL Corporation,CN=SSL.com OV TLS Transit RSA CA 1 | 17 A2 31 B2 46 5A F7 AA 19 42 78 E5 A7 05 87 88 | 2858D518D0774088CFE7BD5E52AAFD15C450B63C667C9F575EB22C084FC2318C | A3 41 D8 50 AD 5E 66 74 99 77 DA 49 E1 52 56 CD 8C 17 84 CF CA 77 BE DF 52 A9 1C 6C 08 0F C8 14 | 12/9/2022 | 12/5/2037 |
| C=US,O=SSL Corporation,CN=SSL.com OV TLS Issuing RSA CA 1 | 22 4A 7C 22 65 ED FC D4 27 53 BD C9 49 FE 84 40 | 604BDD260A28EDD256E9DAA70C05CD18AC3CEC827F842590D45EA42BDDC61E42 | 84 08 C7 7B ED C1 CA 42 25 82 32 CD 4C E5 8B 30 34 9A 34 0E E2 58 33 01 7F DB CC 1D 01 71 05 F3 | 12/9/2022 | 12/6/2032 |
| C=US,O=SSL Corporation,CN=SSL.com IV TLS Transit RSA CA 1 | 1E D8 4C 79 C0 84 DC F4 FA F7 41 3E 35 47 C4 43 | C05F6E75226A6FFDF4A07A6D7473D3C51E66A57FE81138815539157DD57C5A59 | 47 F3 B9 24 9F 5B 89 73 2D 12 79 A2 38 3A 6E 90 1B 5E 17 07 C9 33 43 17 C1 05 A2 4A C8 C9 00 B4 | 12/9/2022 | 12/5/2037 |
| C=US,O=SSL Corporation,CN=SSL.com IV TLS Issuing RSA CA 1 | 61 B0 A3 BC 2F 5E 8F 57 1B 14 9A 61 DF FF F7 2D | 0B9DF26FF87DF92EC265661EEC82D09F8A7531006F3CDA4D6F7288961B23B045 | 9A 1C E1 0A 8D C4 10 4C 97 23 73 E2 78 E8 6D 87 47 D5 68 96 2F 5E D4 EE D7 81 D0 10 52 4D 43 5F | 12/9/2022 | 12/6/2032 |
| C=US,O=SSL Corporation,CN=SSL.com OV TLS Transit ECC CA 1 | 1A 1C 8B 54 47 45 68 31 15 4E 0E A0 B7 5E D6 AC | 0DA999DF66FD21CAFF5E1376ABAD37B4FD2C8AA69B25A3F60794E6F3AA47D98B | 44 50 44 38 D9 86 9E 8B 41 38 CD 47 36 D3 71 D2 7A 9E A8 FA A7 70 FA E1 C5 66 6E 12 5D 12 BC 18 | 12/9/2022 | 12/5/2037 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US,O=SSL Corporation,CN=SSL.com OV TLS Issuing ECC CA 1 | 30 72 D5 84 96 22 DD 9E 94 55 73 B4 B3 B7 B6 79 | F1728DCAF61A28069EEA0FA1B482DD61A463F75255DD700CF60607E75E93C9A9 | FF 58 09 92 DD 01 95 95 FC F2 22 65 96 78 A4 E8 11 E0 FC C2 DB 61 B6 E7 6F E6 10 9A F2 71 41 A9 | 12/9/2022 | 12/6/2032 |
| C=US,O=SSL Corporation,CN=SSL.com IV TLS Transit ECC CA 1 | 21 9D D9 8A 5F 3E 1D 61 3C A3 A0 5A 9A 75 DC FC | 57D61F0944948124E9B7685C7E2C9B4344E75DA9588328ECDF936AC8E80B438E | 52 E8 DF D8 C3 C0 DF 92 E0 E7 40 21 AE 11 46 3C 44 4A FD 91 C3 44 9C 5C DD 79 B2 8F 8D CF 74 4B | 12/9/2022 | 12/5/2037 |
| C=US,O=SSL Corporation,CN=SSL.com IV TLS Issuing ECC CA 1 | 2D 47 1B 5C E9 D1 CE 95 88 03 1B 5F EF 3D BF E9 | 41EFEF46FD0E434B644BB47E6E21182A8DEF59B1E6E1F2952587FA28BF10A4A2 | 65 DE 42 14 85 9D 92 8F 06 75 20 60 BF DC 48 63 6B D0 2C 3A 65 08 A0 10 81 3E DB 46 B1 4A 71 5A | 12/9/2022 | 12/6/2032 |
| C=IL,O=Domain The Net Technologies Ltd,CN=Domain The Net Technologies Ltd CA for TLS R3 | 7B 63 CC 8B 29 CC 2E 93 3C A3 F3 68 5E 7E 78 B2 | 75585A11D7551D4EC507B8AA9EC06C06C47E40B7A5CEDD183B3C342EC7EB7A34 | 64 4C D3 5A 43 63 9C 27 8F 6A 83 5D 18 BC 9C 1F A0 22 09 B7 65 04 0C B4 50 AF 90 64 B0 DB 8B 10 | 5/26/2023 | 5/23/2033 |
| C=IL,O=Domain The Net Technologies Ltd,CN=Domain The Net Technologies Ltd CA for EV TLS R3 | 74 45 CC 7E 67 F1 AC 92 E6 9D AD 16 A9 2F E0 FC | 0032295B0B9CB38A775AF5EC01ADBD2D3989200D8B7F5C7333CD1C061F882E32 | D1 2D BD 9D B3 DC 3B 03 DD 30 0C 15 25 76 94 23 90 50 0E 4D CF DF 7A 29 57 24 AD 4E AF C8 63 62 | 5/26/2023 | 5/23/2033 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=MX,O=LATSSL (Intradigital Soluciones Tecnologicas S. de R.L. de C.V),CN=LATSSL TLS Issuing RSA CA 1 | 50 CA C8 13 D9 8F B6 AB 55 57 BF DC 3D 58 95 00 | 5355C4F8C6CC330B0D813D6194CF206895EE6F3977AC0C99E509260488E6D5C8 | A6 EC 0A 68 55 F7 93 DD 16 70 A5 91 48 38 AE AD 64 84 6B D1 E0 B3 C3 BE F7 85 84 7B F8 1A C1 76 | 6/26/2023 | 6/23/2033 |
| C=MX,O=LATSSL (Intradigital Soluciones Tecnologicas S. de R.L. de C.V),CN=LATSSL EV TLS Issuing RSA CA 1 | 09 AD AC 41 3A 8D 55 90 C9 9E B2 95 23 AD A8 51 | 7F1AD73878E0EA7CFD705675C4DDA688CB25E122F6C8564FDDFC14BDBF041837 | A9 FD FB 7A 73 62 D4 E7 10 D4 B0 C8 0D 32 C3 80 52 02 37 02 A1 F9 F0 C4 08 20 17 53 52 90 6D 85 | 6/26/2023 | 6/23/2033 |
| C=US, O=CLOUDFLARE, INC., CN=Cloudflare TLS Issuing ECC CA 1 | 2C 3F A2 69 2F 41 13 BD 3B 7F E5 B6 04 B4 9D 4D | 2964FD3210EA68FAA2B4A849B36243D33F74429D1B43CE019E7B154EAC7759BA | 2A DD 9B 91 83 39 E6 B3 DA 18 11 58 C5 32 E5 AB C0 08 26 A6 A9 45 C7 35 78 A8 DA 8B C1 94 3C ED | 10/31/2023 | 10/28/2033 |
| C=US, O=CLOUDFLARE, INC., CN=Cloudflare TLS Issuing RSA CA 1 | 55 DF 90 C9 3C 35 90 95 08 86 06 6F 8B 00 B3 6C | CB89B4B505DD2FF5EDFCE618359FD6E288AD7905C2486103FF56FCD1D5DE1857 | FE 60 0C 99 B1 5B 6B 2D 04 48 9E 67 AA 30 E0 D6 C6 23 59 98 6D 2B 99 6E 31 BC 9C C9 3A C5 C9 4B | 10/31/2023 | 10/28/2033 |
| C = US, O = Leocert LLC, CN = Leocert TLS Issuing ECC CA 1 | 5B 70 BA BD 1E D5 E7 41 C0 F6 C3 92 E0 5A 34 0D | 79089DA0678E085080E58D54C462B313EF78416A8724FACE7D1A8937438E00C7 | 54 22 8C 48 43 E5 13 F5 A6 D7 28 75 71 59 0F 4F DA 85 5B DE 49 EB 8E 8E 33 D0 DD 8A 19 D3 12 B7 | 3/21/2024 | 3/19/2034 |



| Intermediate CAs | | | | | |
|---|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C = US, O = Leocert LLC, CN = Leocert TLS Issuing RSA CA 1 | 0B 45 55 82 BC 21 06 25 24 09 DD 73 D4 90 94 88 | 1A70FE182751E637C0E5D3D553E75BDBA1D655FFE5411D9B390B73C8378FA72C | 4C B1 B7 93 5B E2 A6 5C 02 6B 81 48 37 AE B2 28 75 F0 53 0A 63 BA 4F B3 61 A5 C7 94 92 88 D6 66 | 3/21/2024 | 3/19/2034 |
| C=US, O=SSL Corporation, CN=Entrust DV TLS Issuing RSA CA 1 | 07 2F D7 E1 F8 EA 82 40 10 D5 49 D3 7F 6C E1 CE | B76136F39DE4C5BF0FDF5531D3B116D2B3E5DD3C1EB7A69EC9DB20E931B4C528 | 81 1B 57 B4 13 EC 9F 3F 1F ED 54 E3 01 2A C1 CA 36 5B D1 5F 6B 75 6A 6C 73 42 24 4E 0E 49 82 15 | 8/22/2024 | 8/22/2027 |
| C=US, O=SSL Corporation, CN=Entrust DV TLS Issuing ECC CA 1 | 57 46 60 47 20 34 B5 E0 82 4F 87 D0 C4 BE DE D7 | 1A7BD13C77A02501E19B12D6E3CA17BE0B09B5D1AF7711C331A8C096D354D705 | 15 9B 5F 7D 1B C0 AB 9E 4C AD A7 97 E3 C4 51 FE 23 C3 39 7E 38 E4 28 14 EF DD E5 DA 28 FC 13 5B | 8/22/2024 | 8/22/2027 |
| C=US, O=SSL Corporation, CN=Entrust OV TLS Issuing RSA CA 1 | 48 C2 FB 64 1E B8 86 30 E0 BD 99 0B 99 8F C3 F2 | 345C0CF70370A56D465B8E6ED531B55CC8EB1DA5B26880775C589A2F43358D83 | 8A CF 74 A1 1C 5E 49 D2 17 5C 0F 72 38 1F 30 C3 33 09 92 51 71 3F 26 3E 15 F8 01 D2 DC FB AA FC | 8/22/2024 | 8/22/2027 |
| C=US, O=SSL Corporation, CN=Entrust OV TLS Issuing ECC CA 1 | 6F E6 3E DE 5F C1 C0 3A FB 6D 7A 85 BD 3A 15 6D | 87026A05BC3AD085A8E447C2D2864E2EBEC7D017DC488DE255CF4E5EB0576271 | 46 A9 EB 14 C2 5C A4 5E 4A DD 1A 78 00 57 4B E0 B4 10 35 FA 21 09 54 B4 45 78 E3 FD 87 17 98 9E | 8/22/2024 | 8/22/2027 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation, CN=Entrust EV TLS Issuing RSA CA 1 | 63 2E E5 20 E0 5A FF BC CE 19 04 58 24 CC 36 78 | D5612C7ED743B64CD8DB432CEDFEA582608D4223F119EFACE7A6753534392AC8 | FA CA A9 CC F4 00 4A 45 D5 C2 AC CF 70 BA 61 A5 5A D8 39 81 C2 A2 A8 0B EB FA 81 A2 3C 72 01 79 | 8/22/2024 | 8/22/2027 |
| C=US, O=SSL Corporation, CN=Entrust EV TLS Issuing ECC CA 1 | 1A E4 2C F5 AC 62 B7 27 61 E8 9C 3B 5D 99 51 69 | 90487DF9DA11848B04C9993B92EA7BEFD2EB73C5765A3C9BBAEEC3AB2E0D1440 | 51 0F 3A 06 7F F9 85 17 AB 4B 0F CA 95 13 DB 8E 00 81 90 50 13 3E 3E EE 12 C3 35 0D 29 95 CE B2 | 8/22/2024 | 8/22/2027 |
| C=MX,O=LATSSL (Intradigital Soluciones Tecnologicas S. de R.L. de C.V),CN=LATSSL EV TLS Issuing RSA CA 2 | 42 95 7F CB C5 46 19 4A 64 C1 9E CA 83 19 4D 49 | 595C68403E1C3ED74213B1AD2EB216E3C1CD2E458A9863785030D027552C9F93 | 0D 47 24 1A 1C E3 21 E7 8A AC E0 66 76 18 49 1B EA 2C 3C 9C 3C 20 16 F6 64 32 0C E2 4D 5F C4 25 | 5/7/2025 | 5/5/2035 |
| C=MX,O=LATSSL (Intradigital Soluciones Tecnologicas S. de R.L. de C.V),CN=LATSSL TLS Issuing RSA CA 2 | 5A FB B1 92 16 AC 7D 3F 5C FD 44 C5 86 45 D3 3E | 2411E6D673FBB7D296655FD97EFC2D54BC5F22B781F73A2338B44A62A148E642 | 20 80 E0 F9 09 71 63 A3 DF F8 3E 3B 66 62 B6 59 F4 72 A0 DC 23 34 11 27 C5 C2 E3 E4 AA 11 77 03 | 5/7/2025 | 5/5/2035 |
| C=VN,O=Hao Quang Viet Software Company Limited,CN=MuaSSL.com EV TLS Issuing ECC CA 2 | 3A EF 1F 24 0E 64 0F 00 C7 AE B0 04 20 28 8A CD | 6ED37A6CDAEDFF67B5224C27A120FECBFB98DA00FB95515491A9CA1962C651C0 | CC A1 17 AF 5C 18 47 CA 34 C9 E0 5B 2E 73 33 4A 93 9D 59 87 B6 04 9F 31 57 FF 3B 96 81 B1 97 10 | 5/7/2025 | 5/5/2035 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=VN,O=Hao Quang Viet Software Company Limited,CN=MuaSSL.com EV TLS Issuing RSA CA 2 | 2D E6 41 7A A8 79 CF 1E 46 7E 25 73 04 8D E9 83 | 6837A498BB69DEC749FFF4FD1F5FFDC5665A7C1A326FC6D7A057866BA00AAFD2 | D0 F8 5E 41 9C 96 C0 E5 48 1B 60 1A 23 3D A7 F2 76 FC 0B B3 CF C4 C8 3C 51 40 D4 57 FA 27 85 BF | 5/7/2025 | 5/5/2035 |
| C=VN,O=Hao Quang Viet Software Company Limited,CN=MuaSSL.com TLS Issuing ECC CA 2 | 3F 63 E5 19 CF 64 E5 30 5C 24 4A AE 28 1A D3 C6 | 5F8EB0F8A666953A11AC0B537E70C7BDF20EC739FCD3ABC49051B825A1FD1673 | 5D A2 EB 43 DD 08 3D CC 03 A0 6C D5 C4 84 DB A0 D0 B2 B7 16 95 69 0D 63 75 42 2A F3 9D F7 A9 24 | 5/7/2025 | 5/5/2035 |
| C=VN,O=Hao Quang Viet Software Company Limited,CN=MuaSSL.com TLS Issuing RSA CA 2 | 27 87 9B 28 02 28 95 A5 DC CE 4C 4A EC 7F 2F 74 | 00878FD47459C4ADB75AF53FB2C25929776B33469E2EC967DF500CB879624BA8 | 64 62 6A 96 85 CC 8C 7D FF B4 6D F7 7D 4E 6F FF AE 52 1A 7A 9E BC E7 49 71 BA AD 19 76 B1 85 6C | 5/7/2025 | 5/5/2035 |
| C=CN,O=ZoTrus Technology Limited,CN=ZoTrus DV TLS ECC CA 1 | 6E A2 13 7D 92 FC 51 30 45 DA 31 F5 78 9E 52 C5 | FF93C10D46B63242394B8891C398A156D20B81F0B918EE52EB9F539126C80D97 | 3F A0 CC 06 EE 7A 09 33 C4 74 90 76 52 21 8A DC F4 2A D9 B3 1C F3 14 0B 39 74 A0 EF B5 87 3B 88 | 5/7/2025 | 5/5/2035 |
| C=CN,O=ZoTrus Technology Limited,CN=ZoTrus OV TLS ECC CA 1 | 48 96 D2 BA E0 D2 8B 93 EE B2 8F AC 81 A2 C8 6E | 689164A2B9F03C0E5E4D616CB1F453BDD5FC1A3D1C6ED93568C83A3812A7FC20 | 42 D2 89 3F 08 8D 24 FF 71 66 4F FF 5E 5D D8 BF 78 CA 04 AE 3C 94 54 89 E9 70 BA 7E 8C A8 9E DD | 5/7/2025 | 5/5/2035 |



| Intermediate CAs | | | | | |
|---|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=CN,O=ZoTrus Technology Limited,CN=ZoTrus EV TLS ECC CA 1 | 07 B9 76 4E 92 F1 0A 68 7B A9 DE 5D CB 58 1C 09 | 1B18C2641FABBF87AF6B1ADEED01D5F234FB1032A70ABF7C36FEAE7A06C10F3C | F4 CD DE 90 0E CB 75 16 AB CB B5 BB 48 27 3B 33 C7 57 73 56 B0 2C A3 C7 98 13 52 D2 00 14 D6 6C | 5/7/2025 | 5/5/2035 |
| C=US,O=SSL Corporation,CN=Crowdstrike, Inc. OV TLS Issuing ECC CA 1 | 72 8C ED 8E 03 02 31 BA 1E D6 0B 65 01 D1 5D 5C | 8D2AB0655145C4A7805CC3080D7C23451848C6864DA0BEA9FFCC87ADAB552C61 | F3 FC 23 29 32 FC 62 F1 09 39 07 E2 9F 2A 89 D6 CB 27 79 F9 5E 05 25 0C EA 4A F2 E9 C5 5E 15 E6 | 9/26/2024 | 9/26/2027 |
| C=US,O=SSL Corporation,CN=Crowdstrike, Inc. OV TLS Issuing RSA CA 1 | 20 AD B9 83 57 B3 7D 6B 7F E5 41 E0 85 6C F1 79 | 8C393E57F3D03A000D57F6756A15BC7865D185ADB053103FE875562036F44D32 | 82 0C 4B 3B 0A 8D 54 01 48 6C 27 07 A8 7E 25 AF 68 1B 3B 30 10 BF 5E 42 EF 6F 1D C4 C4 B9 15 53 | 9/26/2024 | 9/26/2027 |
| C=US,O=SSL Corporation,CN=Namirial S.p.A EV TLS Issuing RSA CA 1 | 13 BF 67 41 3D 27 35 7B ED AF 81 5E FD 30 4B 31 | AB3B58A111BD5975DC763DE55323E9D82B7F4EB2FB39436D9A1670FDFB3305E4 | CE 8C 41 FA 0B 6D BC 95 E1 00 3C 49 B1 CF C3 51 FC 93 B4 F0 C3 27 F2 FB D3 86 F3 F3 43 F7 A8 14 | 9/26/2024 | 9/26/2027 |
| C=US,O=SSL Corporation,CN=Namirial S.p.A OV TLS Issuing RSA CA 1 | 3A 7F 1D EE F3 66 5F 1B D2 26 4E 43 CD 7A 75 CB | 2893A1D054C8C47F79808742E2FD7853874FE5E65712B737BC5B2FC9D17C8EA7 | B9 95 BA 6E 57 E5 DC 2C E5 52 9B 7B 1C 12 F6 1D D5 3B 1D 8D 75 EA 37 CA 8A 58 BB B0 CF 06 91 44 | 9/26/2024 | 9/26/2027 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation,CN=Cloudflare TLS Issuing ECC CA 2 | 55 A0 44 B2 D8 90 E1 03 05 47 D8 EA 2C 73 2D 4B | B252FE1D3ACAD4CB21ABD2E798120FCA47863C433643751C675B80198E7880D8 | AD 10 9C 56 7B 1D 15 FD 20 64 C6 4F 4A 98 38 E5 A6 4B 25 94 22 06 E7 BB FE 57 E4 F9 6C 72 F8 B3 | 5/29/2025 | 5/27/2035 |
| C=US, O=SSL Corporation,CN=Cloudflare TLS Issuing ECC CA 3 | 31 EE E8 8A FB 87 CD 9E F8 33 66 04 74 3F 9B 27 | F15F29ABEF73AA4DD9AB754BAEAE3685BDD3874B46B525071177628685718026 | E3 8B E2 17 34 C2 FA 1F CB FB 73 87 46 0E 11 B3 9B F8 F8 07 29 CC 76 6F 23 D4 E7 7B 64 43 34 69 | 5/29/2025 | 5/27/2035 |
| C=US, O=SSL Corporation,CN=Cloudflare TLS Issuing ECC CA 4 | 60 4D 12 EC B7 08 34 C3 A2 C7 12 BF 9A 8C 7A 89 | 83D843E7EA9F8CAEF195AFF939AA1B622EEC1DEB1174F879AE223302ADA0F86F | 19 59 E3 8F B7 D3 FC 16 BE E5 E2 0E 83 4E 2C 66 67 BF 0E 9E 6B 98 06 B8 6B D4 0A 6D 66 C7 16 D0 | 5/29/2025 | 5/27/2035 |
| C=US, O=SSL Corporation,CN=Cloudflare TLS Issuing RSA CA 2 | 01 5A A5 32 2A 8C D5 D6 9A BF E3 FF A1 4E A7 7F | E60F5416989208F160C0385779B00C3FD875AAF6201073764FCA0FF72886E597 | 90 3D 9C 39 C1 6C EA 17 88 05 EA 46 84 12 74 4B 31 B9 73 9F DF AF 8C DA 74 F7 A7 2D BB 5E A6 AB | 5/29/2025 | 5/27/2035 |
| C=US, O=SSL Corporation,CN=Cloudflare TLS Issuing RSA CA 3 | 57 E6 14 D0 F2 B0 AE D4 B2 F8 2F 80 1B 3B 78 81 | F2EC7E0A2CF0E3550FD336CF16BAF09A71B4759DC4D98768021E8498943C7547 | C7 C8 98 0B 72 09 99 52 73 93 10 7A B7 A8 80 6F 5E A8 BB DA 38 1A 54 79 F7 04 AF 46 66 C4 A0 50 | 5/29/2025 | 5/27/2035 |



| Intermediate CAs | | | | | |
|---|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation, CN=Cloudflare TLS Issuing RSA CA 4 | 14 0F 56 48 69 F0 8B 10 47 D2 B0 3F 6D A1 17 71 | 764FB1B1F09F44E3B103CA06483E0E5A12DCD928230DB515131A1188869293B4 | 8E 05 65 36 C5 AA 09 BC DA 03 49 42 33 61 4B B0 77 2B DC 3E EF B9 BA FB 55 12 65 4F 47 A7 72 0F | 5/29/2025 | 5/27/2035 |



SSL.COM MANAGEMENT'S ASSERTION

SSL Corp d/b/a SSL.com ("SSL.com") operates the Certification Authority ("CA") services for its CAs enumerated in [Attachment B](#) and provides Extended Validation SSL ("EV SSL") CA services.

The management of SSL.com is responsible for establishing and maintaining effective controls over its EV SSL CA operations, including its EV SSL CA business practices disclosure on its [repository](#), EV SSL key lifecycle management controls, and EV SSL 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 SSL.com's CA operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

SSL.com management has assessed its disclosures of its certificate practices and controls over its EV SSL CA services. Based on that assessment, in SSL.com management's opinion, in providing its EV SSL CA services in Houston, Texas, SSL.com has:




- disclosed its EV SSL certificate lifecycle management business practices in the applicable versions of its SSL.com Certificate Policy and Certification Practice Statement ("CP/CPS") as enumerated in [Attachment A](#), including its commitment to provide EV SSL certificates in conformity with the CA/Browser Forum Guidelines on its [repository](#), and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and EV SSL certificates it manages is established and protected throughout their lifecycles; and
 - EV SSL subscriber information is properly authenticated

throughout the period July 1, 2024 to June 30, 2025 based on the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL v1.8](#).

SSL.com has disclosed the following matters publicly on Mozilla Bugzilla's platform. These matters were included below due to being open during the period July 1, 2024 through the date of this report.



| Bug ID | Summary | Opened | Closed | Resolution |
|-------------------------|--|------------|-----------|------------|
| 1927532 | SSL.com: Issuance of certificates using keys previously reported as compromised | 10/28/2024 | 8/26/2025 | FIXED |
| 1931615 | SSL.com: Entrust API and CAA checking | 11/15/2024 | 12/3/2024 | DUPLICATE |
| 1931636 | SSL.com: Delay in publishing OCSP responses | 11/15/2024 | 2/12/2025 | FIXED |
| 1932973 | SSL.com: CAA Empty set handling results in Wildcard issuance | 11/22/2024 | 4/7/2025 | FIXED |
| 1938236 | SSL.com: Failure to process CAA records from one SubCA | 12/18/2024 | 2/28/2025 | FIXED |
| 1942270 | SSL.com: Revocation process requires submission to a form that is unusable | 1/17/2025 | 4/7/2025 | INVALID |
| 1957140 | SSL.com: "unknown" OCSP response for issued certificates | 3/28/2025 | 8/11/2025 | FIXED |
| 1961406 | SSL.com: DCV bypass and issue fake certificates for any MX hostname | 4/18/2025 | 7/2/2025 | FIXED |
| 1962800 | SSL.com: Revocation due to keyCompromise while keeping other TLS cert w/ the same pubKey unrevoked | 4/25/2025 | 4/25/2025 | INVALID |
| 1962809 | SSL.com: Expired certificate for a "Valid" Test Website | 4/25/2025 | 7/28/2025 | FIXED |

 eSigner: Leonard Grove

CLP7ULH6Z0000ZKXVMG61ZEW2
 Verified Government ID

September 22, 2025

Leo Grove
Chief Executive Officer



**ATTACHMENT A - CERTIFICATE POLICY/CERTIFICATION PRACTICE STATEMENT
VERSIONS IN-SCOPE**

| Policy Name | Policy Version | Policy Date |
|---|-----------------------|--------------------|
| SSL.com Certificate Policy and Certification Practice Statement | Version 1.20 | April 18, 2024 |
| SSL.com Certificate Policy and Certification Practice Statement | Version 1.21 | September 13, 2024 |
| SSL.com Certificate Policy and Certification Practice Statement | Version 1.22 | December 13, 2024 |
| SSL.com Certificate Policy and Certification Practice Statement | Version 1.23 | March 4, 2025 |
| SSL.com Certificate Policy and Certification Practice Statement | Version 1.24 | April 28, 2025 |



ATTACHMENT B - IN-SCOPE CAs

| Root CAs | | | | | |
|---|----------------------------|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock EV Root Certification Authority ECC | 2E 76 4B E9 E9 15 34 58 | 681B729D0267B2B5781645153F3F9351F9C5E4F9AB28A5AC1B975CBB43237270 | DA 50 C9 1F B4 05 56 C4 AA 77 5E 82 FF C9 5D 0E 04 BC 2F 0D BB 1A B6 D8 FF 16 0C AA 36 D3 B1 8E | 2/12/2016 | 2/12/2041 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock EV Root Certification Authority RSA | 7C FD AE B1 74 65 EE F1 | 0B4DF5C46F414D455ABE028205FC37F1F989A8EE31920E3F929DC82337108014 | 3B B2 05 9C 6F 2D 49 C9 AD A5 24 84 6B 16 C6 DE BC C9 7B 51 FB 62 7E F9 3F F3 84 71 F5 43 E5 F3 | 2/12/2016 | 2/12/2041 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock Root Certification Authority ECC | 38 00 94 EB FC E2 DB F4 | BAA4F4E23C70DC1DE619CC3DDEF250A1D5073D1B9B0EBC6B64C046579871E1A3 | 96 D0 0C 2F 31 44 88 91 CB B2 3E E3 21 8D 3A B9 4A BD 6C 1C 81 D4 D6 27 B1 C9 7C 69 9E BF 88 AE | 2/12/2016 | 2/12/2041 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock Root Certification Authority RSA | 2E 06 F0 8D FA FF 1E 9B | 167241D2019BDD4DE0AD7C5CA8499CC6D06E40301E1007875006C37D4BFD5BD | 4D FD 2C BF 1E 31 DB 37 DB 58 7D A4 00 C7 E2 AC EF F6 10 DB C9 A9 BF 5C 9B 52 C5 CD 80 98 E2 D3 | 2/12/2016 | 2/12/2041 |
| C=US, ST=Texas, L=Houston, O=Cyberdata LLC, CN=ecoss.com Root Certification Authority ECC R1 | 10 88 83 2D 3F FF E9 00 | 024F53114851ADB33EACC0F07C75CFE66E95BD6360627272E062FD26683A5E6C | 56 D0 A4 CA 61 E3 9D E9 F3 69 94 08 B5 CA 98 4D 91 57 49 F7 80 D2 BE 20 42 18 6E 62 EE A0 1D 66 | 5/31/2017 | 5/30/2042 |



| Root CAs | | | | | |
|---|----------------------------|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, ST=Texas, L=Houston, O=Cyberdata LLC, CN=ecossl.com Root Certification Authority RSA R1 | 45 CA BA 64 C1 8F 49 BE | D72FD588F611A247E440A72A5B7D0772E8F846E456E64FCFFD44BEAF14DFC2D9 | 16 95 ED 67 97 52 FA 53 8B 1D CA 21 DD C5 12 BD 39 D8 76 92 C0 66 37 34 C2 9B 6F 7B 48 56 46 38 | 5/31/2017 | 5/30/2042 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com Root Certification Authority ECC | 75 E6 DF CB C1 68 5B A8 | 3417BB06CC6007DA1B961C920B8AB4CE3FAD820E4AA30B9ACBC4A74EBDCEBC65 | A3 20 F4 D5 34 D7 BE 97 C1 AE 8D D0 49 97 35 BC 89 5C 32 3A DD 2D 38 8B FC CF 66 2C 23 D7 F9 9A | 2/12/2016 | 2/12/2041 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com Root Certification Authority ECC R2 | 21 E2 5B 95 AD 24 99 74 | FECF02BC40C1C8846478D022789CB8BE031B4BB7CE477B712CAE6BE06DC8A452 | E2 97 29 01 3B 7B 50 4C 48 5C EE 0F C6 32 41 37 C6 F8 BA 17 3D 39 A9 77 29 30 BE 96 56 47 65 08 | 5/31/2017 | 5/30/2042 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority ECC | 2C 29 9C 5B 16 ED 05 95 | 22A2C1F7BDED704CC1E701B5F408C310880FE956B5DE2A4A44F99C873A25A7C8 | 34 87 67 CD AD 3B DD 28 B2 B8 DD 53 51 AE C3 0C 68 CE C5 CD 69 D2 76 DF 38 27 DB C4 F5 80 64 64 | 2/12/2016 | 2/12/2041 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority ECC R2 | 1E A0 54 BB 00 4F 1E F2 | 5D6DE7323F82EC96A1DC3ACEADF2685696EDC2431DB271C4C917FCE1CDB50299 | 95 62 FE 00 5C CA AA 06 BE 27 52 F8 45 E3 B3 48 57 F9 50 CA BE 5A C1 50 F9 53 81 F2 A8 06 30 F3 | 5/31/2017 | 5/30/2042 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority RSA R2 | 56 B6 29 CD 34 BC 78 F6 | 2E7BF16CC22485A7BBE2AA8696750761B0AE39BE3B2FE9D0CC6D4EF73491425C | 7C D6 7C 24 8F 69 D8 3F C2 F9 BB 01 DC B1 F7 AD 67 A3 63 D0 46 04 37 96 D0 98 4C 3A 23 1F 6B B0 | 5/31/2017 | 5/30/2042 |



| Root CAs | | | | | |
|---|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority RSA R2 | 4E F2 32 17 6D 9B EA 14 | 89EFEB25096BA4CCD40AF4FB8756F0A4843995974822020914C4E859D932B7F3 | 7C D6 7C 24 8F 69 D8 3F C2 F9 BB 01 DC B1 F7 AD 67 A3 63 D0 46 04 37 96 D0 98 4C 3A 23 1F 6B B0 | 4/6/2017 | 4/5/2042 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority RSA R3 | 24 CC 8D FC BE 53 22 03 | ACC733F67845FF98F7FAB106A3155014EB2C93685860BC9C5356AA52865E530A | FE 5D 9F A5 92 7A 67 EF 64 A3 63 9C 1F D8 EA E2 F1 6E 40 F0 1C 57 53 88 39 1D 60 8D 76 F9 DF 53 | 5/31/2017 | 5/30/2042 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com Root Certification Authority RSA | 7B 2C 9B D3 16 80 32 99 | 85666A562EE0BE5CE925C1D8890A6F76A87EC16D4D7D5F29EA7419CF20123B69 | D1 C4 53 77 EB DC D6 18 CD 16 51 DC 2E 02 C2 1D 75 1E 5A A9 FC D1 B3 43 1F F6 EC F6 A3 13 48 FA | 2/12/2016 | 2/12/2041 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com Root Certification Authority RSA R2 | 5B 37 98 CA 35 9B 9B EE | 69305226F30AECB43C95127C3AE243097030C1B3E87504D0A60B2A03F0009DF7 | E1 2E C3 18 9C FA E9 F2 01 64 ED 19 71 22 D5 98 DC AC 0D A8 49 14 1C 11 83 AD 54 31 C9 1A 6B 1A | 5/31/2017 | 5/30/2042 |
| C=US, O=SSL Corporation, CN=SSL.com TLS RSA Root CA 2022 | 6F BE DA AD 73 BD 08 40 E2 8B 4D BE D4 F7 5B 91 | 8FAF7D2E2CB4709BB8E0B33666BF75A5DD45B5DE480F8EA8D4BFE6BEBC17F2ED | 2B CF 55 3A 66 F5 70 90 0D DD 32 BA 6D FE 1E CC 06 C9 18 2D 66 2D C1 B6 0E 1F 7B 76 7C 2B DD 54 | 8/25/2022 | 8/19/2046 |
| C=US, O=SSL Corporation, CN=SSL.com TLS ECC Root CA 2022 | 14 03 F5 AB FB 37 8B 17 40 5B E2 43 B2 A5 D1 C4 | C32FFD9F46F936D16C3673990959434B9AD60AAFBB9E7CF33654F144CC1BA143 | 1B F0 0D 5C 8F 13 C0 94 DD 17 E0 05 04 CF 08 88 85 0F 12 FD 06 7F A1 F9 2C 0F DB F6 0B 86 E3 21 | 8/25/2022 | 8/19/2046 |



| Cross-Signed CAs | | | | | |
|--|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C = US, ST = Texas, L = Houston, O = SSL Corporation, CN = SSL.com EV Root Certification Authority ECC | 7F A3 2B 28 B1 C9 AB 6C | 60EF412EABE7C3FC6399EED1B633B777747515B29D721B963DD258BC498AB292 | 34 87 67 CD AD 3B DD 28 B2 B8 DD 53 51 AE C3 0C 68 CE C5 CD 69 D2 76 DF 38 27 DB C4 F5 80 64 64 | 2/14/2019 | 2/12/2027 |
| C = US, ST = Texas, L = Houston, O = SSL Corporation, CN = SSL.com Root Certification Authority ECC | 3F 2C 60 8C 5C F9 63 21 | 06B9722A699C57DFF1869F430B479BB6EB49AAE1184EAC9C5325C1334A34EA4C | A3 20 F4 D5 34 D7 BE 97 C1 AE 8D D0 49 97 35 BC 89 5C 32 3A DD 2D 38 8B FC CF 66 2C 23 D7 F9 9A | 2/14/2019 | 2/12/2027 |
| CN=SSL.com TLS ECC Root CA 2022,O=SSL Corporation,C=US | 3B 0E 70 1D 53 CB B7 14 50 A2 31 96 0F 41 99 9C | AC25863BA43B96AEA864BA2AA256022AF9D38DC93E97437F3DE603CC487306CB | 1B F0 0D 5C 8F 13 C0 94 DD 17 E0 05 04 CF 08 88 85 0F 12 FD 06 7F A1 F9 2C 0F DB F6 0B 86 E3 21 | 11/7/2023 | 11/3/2038 |
| CN=SSL.com TLS RSA Root CA 2022,O=SSL Corporation,C=US | 32 6F 64 E9 70 34 C6 F7 A3 94 6A 50 A3 ED 04 FE | 6BCB147D41E9B577F40002A5C4BA08846737805AAFE8554DD0E72204F6007BA7 | 2B CF 55 3A 66 F5 70 90 0D DD 32 BA 6D FE 1E CC 06 C9 18 2D 66 2D C1 B6 0E 1F 7B 76 7C 2B DD 54 | 11/7/2023 | 11/3/2038 |



| Cross-Signed CAs | | | | | |
|---|---|--|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O= SSL Corporation, CN=SSL.com EV TLS Issuing ECC CA R1 | A5 CD B3 B6 45 32 1F 63 F5 4F A6 CB 45 78 91 BC | 3B8C379F23FA22256A0E1F44D92F0A0FC770BCDE9F8557F160149BCDA22EDE78 | 70 2A B0 CD E3 26 71 8F 46 03 0A 06 D4 21 60 B8 45 07 3C 8F 0C 10 69 E0 D6 25 A6 7C F8 20 E8 7E | 6/21/2024 | 12/31/2028 |
| C=US,O=SSL Corporation,CN=SSL.com EV TLS Issuing RSA CA R1 | AE 6A 94 6A 4C 88 DE 0F B5 03 22 BF 40 D9 93 D2 | 1DAF812025E2376279C074050EE35E1B2D909F8B57A00F82B7B5D28120C3582A | DD E6 CD 5A 44 7A AA 14 AC 57 39 37 5A 46 D7 AA 65 B4 6A B7 8D C4 2F BE E9 47 94 FB E1 00 F4 8A | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com EV TLS Transit ECC CA R2 | 75 E0 A2 E4 F7 06 85 F7 C7 47 E3 B0 7D 0C B8 A6 | 7FE5572FBE934AFC4151651FEF098B9940A47966C4085577314D7104CDE84329 | 62 19 B0 41 94 71 B8 C3 0B 4F A4 0A DD CA 92 07 74 82 B6 42 81 22 0A 8E 61 40 B5 50 28 B1 19 43 | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com EV TLS Transit RSA CA R2 | 58 2A 35 24 1F C8 C2 D6 5E 1A F7 4C F9 ED 0B F1 | A4270E5251691F6EC40CF774C6717E2EFEC3EB1E384607DC75836296AAA15C59 | 04 1D 09 65 CF 95 85 4B BD 9E 2E B8 3C D9 82 65 65 45 09 93 0E 2C 60 CA 8D F6 7D F8 1F 7D F3 74 | 6/21/2024 | 12/31/2028 |



| Cross-Signed CAs | | | | | |
|---|---|--|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation, CN=SSL.com IV TLS Issuing ECC CA 1 | CE 50 B7 B4 5D 39 FE 9F E4 D7 C7 3E C6 B3 51 3E | E3191026C526487A05F68ADF4B8CA395C044AA6B5E72A70E8739DA71A860D0DB | 65 DE 42 14 85 9D 92 8F 06 75 20 60 BF DC 48 63 6B D0 2C 3A 65 08 A0 10 81 3E DB 46 B1 4A 71 5A | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com IV TLS Issuing RSA CA 1 | FA FA 58 86 1E 4E C5 EF 96 73 08 16 AA 16 31 FD | 1372C7B4D6AC3A438BDFC87A29D303315FF34FC5B1E73205936B7B99284A8AF5 | 9A 1C E1 0A 8D C4 10 4C 97 23 73 E2 78 E8 6D 87 47 D5 68 96 2F 5E D4 EE D7 81 D0 10 52 4D 43 5F | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com IV TLS Transit ECC CA 1 | 0A 44 1A 47 B5 28 D8 D7 C1 29 E3 11 35 4D 38 EB | 3708FB804391C75AA5D81235C214F398C6DCA6C9492A3AFDE92A5FD92FE48FAB | 52 E8 DF D8 C3 C0 DF 92 E0 E7 40 21 AE 11 46 3C 44 4A FD 91 C3 44 9C 5C DD 79 B2 8F 8D CF 74 4B | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com IV TLS Transit RSA CA 1 | 7A 7C F7 D2 F4 B6 FC 07 27 BF 25 8D DA EB BA C8 | B90CF398E1BE2E59C6BF1E0F7F996CAB2E1533734A0BC328989C135EB19D6729 | 47 F3 B9 24 9F 5B 89 73 2D 12 79 A2 38 3A 6E 90 1B 5E 17 07 C9 33 43 17 C1 05 A2 4A C8 C9 00 B4 | 6/21/2024 | 12/31/2028 |



| Cross-Signed CAs | | | | | |
|---|--|--|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation, CN=SSL.com OV TLS Issuing ECC CA 1 | 3F 43 B6 9D 7F 6B 3F E3 B5 03 4E 73 89 F1 5E 3E | D306BF0D85BD10D083A1ECA5B38D40149E5C450F996021CC08DE254D1722E619 | FF 58 09 92 DD 01 95 95 FC F2 22 65 96 78 A4 E8 11 E0 FC C2 DB 61 B6 E7 6F E6 10 9A F2 71 41 A9 | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com OV TLS Issuing RSA CA 1 | 36 63 78 92 4D 25 2F 77 05 94 21 46 4B 3D DA C4 | C28A1FDF14AE3F045FBC5E1602A01030A77236CC52267F2360899C832E975C15 | 84 08 C7 7B ED C1 CA 42 25 82 32 CD 4C E5 8B 30 34 9A 34 0E E2 58 33 01 7F DB CC 1D 01 71 05 F3 | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com OV TLS Transit ECC CA 1 | 00 84 D6 18 12 7F F7 67 6B 83 4A A0 F0 60 B7 7B 4A | 28DE5F98B2DB4C4381FDA8307AC9C355DB898966B525665A019F5D6DFE7EF1CA | 44 50 44 38 D9 86 9E 8B 41 38 CD 47 36 D3 71 D2 7A 9E A8 FA A7 70 FA E1 C5 66 6E 12 5D 12 BC 18 | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com OV TLS Transit RSA CA 1 | 00 90 7E 82 C9 B3 8C 5A 45 BC 80 84 C3 7E 50 F5 0F | 5ABA720A2F527774D516DC12021E6248756ADF046EAE0818555E969F8E43CC1F | A3 41 D8 50 AD 5E 66 74 99 77 DA 49 E1 52 56 CD 8C 17 84 CF CA 77 BE DF 52 A9 1C 6C 08 0F C8 14 | 6/21/2024 | 12/31/2028 |



| Cross-Signed CAs | | | | | |
|---|--|--|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation, CN=SSL.com TLS Issuing ECC CA R2 | 73 83 11 42 9F 73 08 97 12 CD 4A FD 6D 16 FA DD | 2DC7DDC440B6332274868C5E1DF5D15BD71E5A1861D22B6181BC1C2CBFA32B34 | 34 F4 6B 06 4F 7A B7 AE 2F 6B 2F 37 6B C2 9F EE 42 D5 F1 59 9D 8B FD 7B 42 0A 5E B3 7D BC FC F9 | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com TLS Issuing RSA CA R1 | 00 C4 F8 45 C8 27 62 91 EC C2 B3 DD 1D C7 8C 87 4D | AB3DE819F342F0A61D199D4BE86A4F7F3F2810CDFF0B0BFF872F4D93E812CE80 | D0 52 81 57 19 F2 77 82 6A F2 FF 12 4F ED EC 8C EF 96 A0 1E CF 2C 11 29 49 D8 B1 6C 71 35 2F 88 | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com TLS Transit ECC CA 2 | 00 AD 8D 2D F6 46 81 A0 D3 64 47 EA A9 4F A2 73 C1 | FE9FB0F783EBB843109AA31DE9DA9864B6542940C307DF23180B11F1F7E108DE | 39 7C A3 F6 78 1B A8 EF 5C 8C B7 8E FF EB 7D 1A 09 76 10 FE 09 4E 75 56 1E AE 0B 13 08 45 33 DC | 6/21/2024 | 12/31/2028 |
| C=US, O=SSL Corporation, CN=SSL.com TLS Transit RSA CA 2 | 52 5D 9F 0D 96 7A 10 7D 60 AA 67 5B 3A C1 E9 C8 | EBD417F595C3F259B7455C8135293505B692C47E0F74D3BA885CE22C8875CA28 | BE 7D 1E D4 31 29 60 39 CE 59 E3 52 1F 42 24 BA FA D2 F2 22 00 13 BC 79 68 1E C4 A2 50 D4 C5 2D | 6/21/2024 | 12/31/2028 |



| Cross-Signed CAs | | | | | |
|--|---|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation, CN=SSL.com TLS RSA Root CA 2022 | 21 C2 87 B9 3E 34 20 13 C3 5B CA 09 87 59 2C B9 | AAC42585276A2BA42710CA7AF27B1369F339F24F70D9095BE956391CAAF8BA94 | 2B CF 55 3A 66 F5 70 90 0D DD 32 BA 6D FE 1E CC 06 C9 18 2D 66 2D C1 B6 0E 1F 7B 76 7C 2B DD 54 | 10/16/2024 | 12/6/2030 |
| CN=SSL.com Root Certification Authority RSA, C=US, ST=Texas, L=Houston, O = SSL Corporation | 2D 9D BD F4 60 81 8E FB 18 8B 58 EB E6 D5 5F EA | 336CD76B6C7F7878B3D4AB59B28982CBEE40804AABC9C2BEE98827B34CFFF2C0 | 2B CF 55 3A 66 F5 70 90 0D DD 32 BA 6D FE 1E CC 06 C9 18 2D 66 2D C1 B6 0E 1F 7B 76 7C 2B DD 54 | 2/18/2025 | 2/15/2040 |
| CN=SSL.com Root Certification Authority ECC, C=US, ST=Texas, L=Houston, O = SSL Corporation | 43 55 39 DF 81 B9 0D AC A3 CB 5C E4 2B EC B3 BD | 1E6EBEF80676FD20D2597C1F45A5E198DD4C4CBF3328E522837196600C319141 | 1B F0 0D 5C 8F 13 C0 94 DD 17 E0 05 04 CF 08 88 85 0F 12 FD 06 7F A1 F9 2C 0F DB F6 0B 86 E3 21 | 2/18/2025 | 2/15/2040 |



| Intermediate CAs | | | | | |
|--|----------------------------|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com RSA SSL subCA | 09 97 ED 10 9D 1F 07 FC | 527A60B02ABF3A4A5519C4F62FBBD560E3034074EEEC8B8799AA9368693FE36D | EC B7 01 E5 9F 00 4D 5C F8 AD C4 2D 21 8E 71 26 2A FC FF E1 77 7B F1 CF 8B C2 03 74 29 E3 09 A1 | 2/12/2016 | 2/12/2031 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock RSA SSL subCA | 19 EF 13 7E FD 98 37 F3 | 096CC9B323F28AA101699B04D1F75D060C26F5C3C8E3B4EAFD08F8B822D20666 | C7 1C 77 B9 5B 6B 40 6C 66 23 2A 1D F9 CE 7D F1 92 75 43 B0 96 72 1C AE 00 2F D1 54 49 94 7D 03 | 2/12/2016 | 2/12/2031 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock ECC SSL subCA | 7C C0 C4 55 70 39 20 CD | 46082EB4EB787B24FC84C02299955E3ABFD16733489D56606CC393409E4E231B | F4 4E 42 38 2D 31 64 FC E5 03 EA D2 B7 EC 04 39 B9 26 39 4C D0 59 76 CE 77 95 31 7D 32 19 27 13 | 2/12/2016 | 2/12/2031 |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock EV RSA SSL subCA | 02 5B B7 0A BA 7E 81 A8 | 556361EE7D772FC1519AC60AAF628DEF8467F67315FDE00FF70494EE44D70A59 | FC 0A E8 DB DD 65 B7 C1 D4 FC 1B C5 6F 98 C3 06 4C 56 B6 6C ED 9F EF CF 82 92 E4 B9 4C DD 6A 11 | 2/12/2016 | 2/12/2031 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=CertLock EV ECC SSL subCA | 58 55 26 EE 2D AF 63 D3 | 00DAE0270B9AF7210A21158F461A432D734063D5960C84E1CC779CCB65022204 | C2 84 50 BC E9 77 49 96 09 98 84 64 DE 58 5B 56 BC BB D9 89 CD 2A 3E E1 E0 56 32 ED 98 18 5F A5 | 2/12/2016 | 2/12/2031 |
| C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com EV SSL Intermediate CA ECC R2 | 3C 7D 3B E6 7F A3 ED 6D 30 EB D0 F0 B4 DF 83 9C | 8394E3D07EFC1E97EA6CBA214C3A055C17DD9A7EBF8DDE0020FCDDDB76F28653 | 77 5B 4A B9 1D 9A 14 59 E1 C3 C7 91 06 83 5E 8B BB 01 E1 85 91 D6 24 26 38 49 86 07 7D FB 03 49 | 3/7/2019 | 3/3/2034 |
| C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com SSL Intermediate CA ECC R2 | 1C D7 12 12 DE 15 10 D9 12 82 DA 33 10 4A 10 2F | 948B7111AF42F546D579CFF5CE2BDEC82134DD9914842BDDB0C52872EB604E39 | CC 68 00 E0 E5 38 0E 32 5D BE 94 58 52 A6 E2 E5 58 76 83 D5 B9 39 CF CF 80 A8 A1 CB D9 A4 2E C1 | 3/7/2019 | 3/3/2034 |
| C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com EV SSL Enterprise Intermediate CA RSA R2 | 72 EB 6E F3 C5 19 A7 24 08 D1 5A A2 4D EB 68 F0 | 9B25A6A7BD51BC5F5C4F06E0D1218FD370DD31FAFD5CD3B627C82F202F1B4657 | BD C2 FA 91 53 F7 8C FF 21 6D 39 F9 03 EB 72 29 ED 48 58 85 81 16 78 6F 52 F6 B7 AA 6B C4 1B 62 | 3/26/2019 | 3/22/2034 |



| Intermediate CAs | | | | | |
|---|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com SSL Enterprise Intermediate CA RSA R1 | 7A 46 09 3E 23 7C BB A8 D0 21 CE 1C 70 AA F0 0C | EDAC9C45909F4DEC7BB65F0A4FBF6A8A0375E52AEDD66E06888FED7E3EDEC537 | A0 A0 29 36 90 CB DA 1C EF 07 A7 EA 37 AC 9F 5B 16 DD A3 11 76 96 F9 D5 64 BC 36 E1 CF 4C 35 65 | 3/26/2019 | 3/22/2034 |
| C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com EV SSL Intermediate CA RSA R3 | 03 A3 F4 D0 60 30 52 A3 37 CE 38 0A 88 30 31 8C | 85DB0BEED0668D04D7074000F98E84B08D0FD5429FF4A262DE7CBC1528A1A1DA | E1 5E 8A 26 FD 3D 8F 8C 02 4D D0 75 90 6F 3E AD F3 3B 5C 21 31 60 4A 62 5C 21 B3 24 D2 F9 F0 84 | 3/26/2019 | 3/22/2034 |
| C = NZ, O = SafeToOpen Ltd, CN = SafeToOpen EV TLS ICA RSA R1 | 40 DB 37 04 96 43 5E 7D F5 16 8E F4 F5 7E FC DA | C2D4FDFBBD82F4A1CDAC4713E3AB0999560918D7A170DDE03F7DDBF9A288DCDC | C1 C7 A8 4F 24 9A 2C 25 D8 EC 50 00 06 53 1A D5 E0 78 15 CD 95 A1 D7 3C CD 24 22 8F E8 2D E8 AA | 10/1/2019 | 9/28/2029 |
| C = NZ, O = SafeToOpen Ltd, CN = SafeToOpen TLS ICA RSA R1 | 70 4D 71 60 F4 1F E6 87 15 D4 90 8D E4 EE 16 39 | DFCCDBF077D142D7923F6316DD411E462C7A8BC04781F2B87065A5C5E258A7E0 | B9 0E 1C CC 96 89 86 BA E2 05 D2 31 97 B4 B2 3F 05 FC 5B 2E 33 D7 66 A3 F5 9A 82 6F 79 9D 62 9A | 10/1/2019 | 9/28/2029 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C = GB, ST = London, L = London, O = Anson Network Limited, CN = AnsonNet TLS Issuing RSA CA R1 | 31 68 24 E5 96 BC A1 B1 14 AC 00 4A A5 5A 4F 90 | 92CE7EA7424B3E7A2C14C26E0D572ADB556E05E2B2A8BD3761C695254255856 | 98 F4 A1 44 D9 01 52 9D 55 81 7B 9A 88 86 C8 76 1F B9 95 C6 3A 9C 6E 04 BF 0F 9D C2 D8 E4 D3 A0 | 10/6/2020 | 10/4/2030 |
| C = CH, ST = Luzern, L = Luzern, O = swissns GmbH, CN = SwissNS TLS Issuing RSA CA R1 | 42 BF 6C D1 88 7B BE E8 DE BD 79 80 1E A2 D7 D0 | 37FD29C701D6977998F205153EA8A4C2E996354DF072D4984DC5D8B1F75A2B61 | 28 07 5A F8 B2 45 78 6B 46 B6 10 AA 09 E8 DE AF 61 14 02 B1 59 35 EF 9F 9A 59 0B 76 19 1D 70 97 | 10/6/2020 | 10/4/2030 |
| C = US, O = Staclar, Inc., CN = Staclar TLS Issuing CA R1 | 29 E0 FB 0E DE 5C 14 37 6C A3 2A 11 A7 34 50 4D | FE6B6F9E44B670797D52E5F16EF1BB10B49EB3AD662522FC632B37DF9A5044CD | DA 1A CA DB 62 11 09 E4 1C D2 1B A1 08 21 93 48 A6 36 47 42 E6 C9 E1 54 68 7E 00 AD 14 7A 61 47 | 6/23/2021 | 6/21/2031 |
| C = VN, L = Ho Chi Minh, O = Hao Quang Viet Software Company Limited, CN = MuaSSL EV TLS Issuing ECC CA R1 | 32 EF B8 E0 49 19 BF E1 6E 55 6D 2D 76 36 7E 31 | 785FD32364C457E2AEB4353AA95808F371AA8906E11C40E13C338A6B3EE73BE1 | 2A CC A6 44 8D 85 8A 1A 19 E5 CE 66 D3 4D 1B 93 3A 58 AA 4F 4E 7D 72 8C 04 FC FB 58 4A 1D A8 48 | 11/6/2021 | 11/14/2031 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C = VN, L = Ho Chi Minh, O = Hao Quang Viet Software Company Limited, CN = MuaSSL EV TLS Issuing RSA CA R1 | 1D DE 2C 57 C2 F0 C4 1D 99 E4 91 97 65 C7 1C 3B | 38F58CAF650CCD4F6027D1C922682891A165FEF491FC1D333FE8A9C851586D48 | D7 70 1B 4C 03 E0 4A 8E 19 11 79 7F D5 DE 77 B4 18 5D 93 FD 4E 66 9E 36 A1 9F 14 A3 C7 FE D2 0B | 11/6/2021 | 11/14/2031 |
| C = VN, L = Ho Chi Minh, O = Hao Quang Viet Software Company Limited, CN = MuaSSL TLS Issuing ECC CA R1 | 45 8E 97 B2 62 F4 01 20 90 16 B6 26 84 D2 01 4E | 623ABEC6F85A7028ACA10F5BDC5D81B56B6314DF28743FFCC84ECA32F35AE846 | 69 66 9D 0A 9E E4 31 C7 DF B9 C7 5C B6 03 76 B9 1E CE 05 99 BE 5C 92 34 F6 D3 8B C6 32 DB 86 FF | 11/6/2021 | 11/14/2031 |
| C = VN, L = Ho Chi Minh, O = Hao Quang Viet Software Company Limited, CN = MuaSSL TLS Issuing RSA CA R1 | 31 EE 6F 1D BF 75 C3 A6 00 56 3B E0 46 7A 20 3A | 52999873A3D12A4571DB9A160576A9D951AD4E4A7DA31C5C10613805E9224325 | EB AE 70 FC D6 6C 3C EE D3 11 7C 06 49 19 C7 CF 96 C6 43 7B 5E 0E 89 4A AD 30 6B 5E 18 DC 1D CC | 11/6/2021 | 11/14/2031 |
| C=CX, CN=3CX CA RSA R1,O=3CX | 63 59 AB E4 F9 BA 50 56 54 00 B6 66 1A 5C A5 CF | 4E93BCADD5D4E95331AE362DF9C6066CCA7F942A8FDE4D3EE011DE34074F5840 | 6D E9 29 EA 07 EA 97 D0 39 92 10 FD 40 9B C3 11 CD 3C EB D3 E8 3D 0D 56 8E 38 48 53 41 82 65 02 | 1/12/2022 | 1/10/2032 |



| Intermediate CAs | | | | | |
|---|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra TLS RSA CA R1 | 5E 07 E2 92 08 73 13 FE D2 41 65 A2 95 A0 1B 41 | 586A5C9836D9FB3BE863BA765A7966D940297FEC7BDD488016C7AA1EAE1F1D51 | D6 F7 71 6F 4E EF D0 2F B9 7C 1A BA 18 F6 A0 7C 7B DD C9 9D F5 13 BF 00 DA E2 A3 8D C1 E9 DD 9D | 2/28/2022 | 2/26/2032 |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra TLS ECC CA R1 | 43 BD 37 AA 55 BD 4F 67 03 46 5D 9A F4 96 99 D7 | 108162F2B35ED71C6EA9502F94B93E9754789DDE871B2AC26CE06D47207A95CC | EF B2 9D 8B C5 EB F5 4C C8 BB 96 82 B8 F9 CD DE CB CF EA 60 9D 71 29 E9 1D AD 95 E9 EF 31 D7 30 | 2/28/2022 | 2/26/2032 |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra EV TLS RSA CA R1 | 53 29 17 D7 B3 59 3F 2C F9 02 6B 1C 3D A8 E4 8E | 24E7A0475697793ABF3E0DDB04D542FFE7C93CC71D19F6067144ACA89A4CA678 | C7 26 F3 35 EF B7 42 C3 FC EC D1 B7 CE 20 A7 99 D3 10 09 28 BF 22 68 49 8F E7 FA 73 B3 F6 2D 58 | 2/28/2022 | 2/26/2032 |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra EV TLS ECC CA R1 | 20 50 ED 42 B8 85 22 A8 B0 41 C2 68 2D 71 28 0B | 7BA8F0BB49F501E9BB72E3A13708C6A933140FDC65592A37ACDE66AD07DE607E | E1 97 C9 88 41 B4 9E FB 96 76 B5 F2 5C 59 BB 23 FE 5F E6 41 8F AF 3D 7B 37 47 58 78 AF 5F 4C 1F | 2/28/2022 | 2/26/2032 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra TLS RSA SubCA R1 | 72 14 56 C6 1F 04 10 4B 5C 2B 0F F6 00 2A 22 84 | 7FD28377C87C898E9094C93EA00BF107ABE11DB80B3D85E2B4A662697681235B | 45 3E 51 BB 8C 95 A4 0F 35 E1 1F 86 2D 7B FD 99 E3 D9 A9 7C 00 7E EA 73 F9 95 CB A4 5B 96 FF E3 | 3/4/2022 | 2/26/2032 |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra TLS ECC SubCA R1 | 4B 35 91 AC 47 79 31 02 0D 79 93 01 00 89 77 FE | 3687AF02C49731CA34FE4FDB9B5E5E0ECACD8A206956F19AFB38203AC5F0A567 | 2C 4A 68 3C 12 27 BD D3 CA BC 19 C4 BE 03 86 54 3E A7 88 5D 69 D1 2C 8F 97 C0 95 97 56 26 63 70 | 3/4/2022 | 2/26/2032 |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra EV TLS RSA SubCA R1 | 2B 0F 55 D4 E4 FC 35 4B 3A 78 B7 B6 89 C4 34 CB | 6762522E4B57AED0960574AB061F79EEA068C5AE3D815F50A971CEC4958A92B8 | 43 BB E8 1E 6A F0 FA 82 91 4B 0A 38 FB 5F 53 FF 33 2D 3E D6 03 EE 28 B1 11 CA 48 75 2A 23 EB AD | 3/4/2022 | 2/26/2032 |
| C=TR, O=E-TUGRA EBG BILISIM TEKNOLOJILERI VE HIZMETLERI ANONIM SIRKETI, CN=E-Tugra EV TLS ECC SubCA R1 | 5D E1 44 BD 52 A7 2B 75 69 E6 A9 46 F3 88 A3 BC | A36C1CC623ECF3ED899A9AC14FDD5620919858E621E6877E01EF50DA1DB6A3AB | C4 8D 38 D9 F4 FD 4E B0 A3 92 71 FE 3C EA 79 3E 84 58 CB 6F CD 7C DD 86 79 72 FA E5 1A 3D D3 BE | 3/4/2022 | 2/26/2032 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=TR, O=Isimtescil Bilisim A.S., CN=TrustSafe TLS RSA SubCA R1 | 47 83 86 6C 57 49 82 F9 D9 EF 8F AD D7 A0 50 37 | 98A0C3BA1899258595D04F15D134C5732E864B755C648A48D1C17F0A260EF5A7 | FD 2A D4 19 8B 16 A4 35 B8 E2 AF E0 20 F2 F8 7B EB CA AE 82 CF BB 4F E7 D0 EC 92 66 F6 F9 83 A5 | 3/4/2022 | 2/26/2032 |
| C=TR, O=Isimtescil Bilisim A.S., CN=TrustSafe TLS ECC SubCA R1 | 71 0D BF 46 61 D9 33 7A CB 56 22 DF C2 77 CA A7 | 5EAF05CFC9A017730D01E6688D6E39710E01FDE374E74B1B25D3A48076AE5DB8 | 48 A8 E9 B6 53 47 CE 01 2F C8 0A D5 AD D4 EE A7 C3 91 90 65 86 8A 49 B7 88 59 8B 24 8E 19 44 63 | 3/4/2022 | 2/26/2032 |
| C=US, O=SSL Corp, CN=SSL.com EV TLS Transit ECC CA R1 | 11 1E 88 BA DA F8 0F 1C 4A 3D 6A 68 9B C7 64 4D | 619079F100A6BFB65CB2E98890DD0AC492B64665E254A66A529D8F5917D82AB1 | 4C 91 7F D7 CF 9C E9 AC DE F6 9B 58 A2 10 F2 56 A5 BC AA 95 C1 9C 90 C5 BF B5 62 6C 9F 0C C2 B9 | 2/28/2022 | 2/24/2037 |
| C=US, O=OCLC, Inc., CN=OCLC TLS Issuing RSA SubCA R1 | 5F 5B 37 D3 E9 61 02 5A 95 80 7C 99 45 73 AD B5 | E7527E30D473AEC3B162AFDC47095449D2DD5494CE862E2FE4F436C081262F64 | B5 32 DC 52 5C 41 EC 76 D7 AA 59 5C 72 64 E1 67 F5 BF D7 55 01 5C 6E B8 15 59 A0 E8 36 4F 77 19 | 9/22/2022 | 9/19/2023 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation, CN=SSL.com TLS Transit ECC CA R2 | 60 4D 8A F8 D0 0B A8 74 8B 95 58 53 17 2C 5F 2E | 5D1BC399274E649E1C72697DE91A54AD725088C5221CB61E17EE9C290BC42A92 | 39 7C A3 F6 78 1B A8 EF 5C 8C B7 8E FF EB 7D 1A 09 76 10 FE 09 4E 75 56 1E AE 0B 13 08 45 33 DC | 10/21/2022 | 10/17/2037 |
| C=US, O=SSL Corporation, CN=SSL.com TLS Transit RSA CA R2 | 20 28 1D D3 86 17 1E BF 05 20 45 B3 37 F2 BD 86 | FFE930442DFEB69CE29A908B6A639B370BD6BA6075F931AB83561D938B453A21 | BE 7D 1E D4 31 29 60 39 CE 59 E3 52 1F 42 24 BA FA D2 F2 22 00 13 BC 79 68 1E C4 A2 50 D4 C5 2D | 10/21/2022 | 10/17/2037 |
| C=US, O=SSL Corporation, CN=SSL.com EV TLS Transit ECC CA R2 | 63 49 84 8E E7 D2 44 F1 31 A6 19 CE 3A 92 1C 5D | 4CF773F955FDB7A97DB1250F2FD7BA36075A96166BB5CC417B5C021D0F70ADF2 | 62 19 B0 41 94 71 B8 C3 0B 4F A4 0A DD CA 92 07 74 82 B6 42 81 22 0A 8E 61 40 B5 50 28 B1 19 43 | 10/21/2022 | 10/17/2037 |
| C=US, O=SSL Corporation, CN=SSL.com EV TLS Transit RSA CA R2 | 21 71 43 8C ED C2 DD 04 73 D5 EC 40 9E 43 73 28 | 6CC95D21D4C7BA39736E4E703E4260B7EFB6DCCD91431ED5C43D7E0986B39554 | 04 1D 09 65 CF 95 85 4B BD 9E 2E B8 3C D9 82 65 65 45 09 93 0E 2C 60 CA 8D F6 7D F8 1F 7D F3 74 | 10/21/2022 | 10/17/2037 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|------------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation, CN=SSL.com TLS Issuing ECC CA R2 | 5D 74 43 B9 94 D3 21 F2 67 F2 04 F1 84 4A C7 32 | 7F3EE6366236EDE6C1F7C21C443C644D32153EDAA9357C3A6DA879CDF2A6B0B6 | 34 F4 6B 06 4F 7A B7 AE 2F 6B 2F 37 6B C2 9F EE 42 D5 F1 59 9D 8B FD 7B 42 0A 5E B3 7D BC FC F9 | 10/21/2022 | 10/18/2032 |
| C=US, O=SSL Corporation, CN=SSL.com TLS Issuing RSA CA R1 | 26 B9 FF E4 59 6F A6 1E 1A F2 1C 63 D6 72 74 8A | BFBC39E9FA2B84C9A92337E2344EE2381D8D3D3AE8EA75EF4E48E5807ED80C69 | D0 52 81 57 19 F2 77 82 6A F2 FF 12 4F ED EC 8C EF 96 A0 1E CF 2C 11 29 49 D8 B1 6C 71 35 2F 88 | 10/21/2022 | 10/18/2032 |
| C=US, O=SSL Corporation, CN=SSL.com EV TLS Issuing ECC CA R1 | 58 3D 15 21 7B 32 62 7E 14 E5 48 DF 13 50 81 A9 | 68255D5EA52D2CA9A0B1F8EFF8F446CECC95A80A5D880DB681F1630C0B4B214D | 70 2A B0 CD E3 26 71 8F 46 03 0A 06 D4 21 60 B8 45 07 3C 8F 0C 10 69 E0 D6 25 A6 7C F8 20 E8 7E | 10/21/2022 | 10/18/2032 |
| C=US, O=SSL Corporation, CN=SSL.com EV TLS Issuing RSA CA R1 | 3A 68 0D CA 7D 82 C0 83 4B 32 89 D1 2A 7F 00 F4 | ECBD2002FB15D690EB29CCA7371D97F84FAE7F1FF67BD039323BADAF5CAD9148 | DD E6 CD 5A 44 7A AA 14 AC 57 39 37 5A 46 D7 AA 65 B4 6A B7 8D C4 2F BE E9 47 94 FB E1 00 F4 8A | 10/21/2022 | 10/18/2032 |



| Intermediate CAs | | | | | |
|---|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US,O=SSL Corporation,CN=SSL.com OV TLS Transit RSA CA 1 | 17 A2 31 B2 46 5A F7 AA 19 42 78 E5 A7 05 87 88 | 2858D518D0774088CFE7BD5E52AAFD15C450B63C667C9F575EB22C084FC2318C | A3 41 D8 50 AD 5E 66 74 99 77 DA 49 E1 52 56 CD 8C 17 84 CF CA 77 BE DF 52 A9 1C 6C 08 0F C8 14 | 12/9/2022 | 12/5/2037 |
| C=US,O=SSL Corporation,CN=SSL.com OV TLS Issuing RSA CA 1 | 22 4A 7C 22 65 ED FC D4 27 53 BD C9 49 FE 84 40 | 604BDD260A28EDD256E9DAA70C05CD18AC3CEC827F842590D45EA42BDCC61E42 | 84 08 C7 7B ED C1 CA 42 25 82 32 CD 4C E5 8B 30 34 9A 34 0E E2 58 33 01 7F DB CC 1D 01 71 05 F3 | 12/9/2022 | 12/6/2032 |
| C=US,O=SSL Corporation,CN=SSL.com IV TLS Transit RSA CA 1 | 1E D8 4C 79 C0 84 DC F4 FA F7 41 3E 35 47 C4 43 | C05F6E75226A6FFDF4A07A6D7473D3C51E66A57FE81138815539157DD57C5A59 | 47 F3 B9 24 9F 5B 89 73 2D 12 79 A2 38 3A 6E 90 1B 5E 17 07 C9 33 43 17 C1 05 A2 4A C8 C9 00 B4 | 12/9/2022 | 12/5/2037 |
| C=US,O=SSL Corporation,CN=SSL.com IV TLS Issuing RSA CA 1 | 61 B0 A3 BC 2F 5E 8F 57 1B 14 9A 61 DF FF F7 2D | 0B9DF26FF87DF92EC265661EEC82D09F8A7531006F3CDA4D6F7288961B23B045 | 9A 1C E1 0A 8D C4 10 4C 97 23 73 E2 78 E8 6D 87 47 D5 68 96 2F 5E D4 EE D7 81 D0 10 52 4D 43 5F | 12/9/2022 | 12/6/2032 |



| Intermediate CAs | | | | | |
|---|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US,O=SSL Corporation,CN=SSL.com OV TLS Transit ECC CA 1 | 1A 1C 8B 54 47 45 68 31 15 4E 0E A0 B7 5E D6 AC | 0DA999DF66FD21CAFF5E1376ABAD37B4FD2C8AA69B25A3F60794E6F3AA47D98B | 44 50 44 38 D9 86 9E 8B 41 38 CD 47 36 D3 71 D2 7A 9E A8 FA A7 70 FA E1 C5 66 6E 12 5D 12 BC 18 | 12/9/2022 | 12/5/2037 |
| C=US,O=SSL Corporation,CN=SSL.com OV TLS Issuing ECC CA 1 | 30 72 D5 84 96 22 DD 9E 94 55 73 B4 B3 B7 B6 79 | F1728DCAF61A28069EEA0FA1B482DD61A463F75255DD700CF60607E75E93C9A9 | FF 58 09 92 DD 01 95 95 FC F2 22 65 96 78 A4 E8 11 E0 FC C2 DB 61 B6 E7 6F E6 10 9A F2 71 41 A9 | 12/9/2022 | 12/6/2032 |
| C=US,O=SSL Corporation,CN=SSL.com IV TLS Transit ECC CA 1 | 21 9D D9 8A 5F 3E 1D 61 3C A3 A0 5A 9A 75 DC FC | 57D61F0944948124E9B7685C7E2C9B4344E75DA9588328ECDF936AC8E80B438E | 52 E8 DF D8 C3 C0 DF 92 E0 E7 40 21 AE 11 46 3C 44 4A FD 91 C3 44 9C 5C DD 79 B2 8F 8D CF 74 4B | 12/9/2022 | 12/5/2037 |
| C=US,O=SSL Corporation,CN=SSL.com IV TLS Issuing ECC CA 1 | 2D 47 1B 5C E9 D1 CE 95 88 03 1B 5F EF 3D BF E9 | 41EFEF46FD0E434B644BB47E6E21182A8DEF59B1E6E1F2952587FA28BF10A4A2 | 65 DE 42 14 85 9D 92 8F 06 75 20 60 BF DC 48 63 6B D0 2C 3A 65 08 A0 10 81 3E DB 46 B1 4A 71 5A | 12/9/2022 | 12/6/2032 |



| Intermediate CAs | | | | | |
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| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=IL,O=Domain The Net Technologies Ltd,CN=Domain The Net Technologies Ltd CA for TLS R3 | 7B 63 CC 8B 29 CC 2E 93 3C A3 F3 68 5E 7E 78 B2 | 75585A11D7551D4EC507B8AA9EC06C06C47E40B7A5CEDD183B3C342EC7EB7A34 | 64 4C D3 5A 43 63 9C 27 8F 6A 83 5D 18 BC 9C 1F A0 22 09 B7 65 04 0C B4 50 AF 90 64 B0 DB 8B 10 | 5/26/2023 | 5/23/2033 |
| C=IL,O=Domain The Net Technologies Ltd,CN=Domain The Net Technologies Ltd CA for EV TLS R3 | 74 45 CC 7E 67 F1 AC 92 E6 9D AD 16 A9 2F E0 FC | 0032295B0B9CB38A775AF5EC01ADB2D3989200D8B7F5C7333CD1C061F882E32 | D1 2D BD 9D B3 DC 3B 03 DD 30 0C 15 25 76 94 23 90 50 0E 4D CF DF 7A 29 57 24 AD 4E AF C8 63 62 | 5/26/2023 | 5/23/2033 |
| C=MX,O=LATSSL (Intradigital Soluciones Tecnologicas S. de R.L. de C.V),CN=LATSSL TLS Issuing RSA CA 1 | 50 CA C8 13 D9 8F B6 AB 55 57 BF DC 3D 58 95 00 | 5355C4F8C6CC330B0D813D6194CF206895EE6F3977AC0C99E509260488E6D5C8 | A6 EC 0A 68 55 F7 93 DD 16 70 A5 91 48 38 AE AD 64 84 6B D1 E0 B3 C3 BE F7 85 84 7B F8 1A C1 76 | 6/26/2023 | 6/23/2033 |
| C=MX,O=LATSSL (Intradigital Soluciones Tecnologicas S. de R.L. de C.V),CN=LATSSL EV TLS Issuing RSA CA 1 | 09 AD AC 41 3A 8D 55 90 C9 9E B2 95 23 AD A8 51 | 7F1AD73878E0EA7CFD705675C4DDA688CB25E122F6C8564FDDFC14BDBF041837 | A9 FD FB 7A 73 62 D4 E7 10 D4 B0 C8 0D 32 C3 80 52 02 37 02 A1 F9 F0 C4 08 20 17 53 52 90 6D 85 | 6/26/2023 | 6/23/2033 |



| Intermediate CAs | | | | | |
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| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=CLOUDFLARE, INC., CN=Cloudflare TLS Issuing ECC CA 1 | 2C 3F A2 69 2F 41 13 BD 3B 7F E5 B6 04 B4 9D 4D | 2964FD3210EA68FAA2B4A849B36243D33F74429D1B43CE019E7B154EAC7759BA | 2A DD 9B 91 83 39 E6 B3 DA 18 11 58 C5 32 E5 AB C0 08 26 A6 A9 45 C7 35 78 A8 DA 8B C1 94 3C ED | 10/31/2023 | 10/28/2033 |
| C=US, O=CLOUDFLARE, INC., CN=Cloudflare TLS Issuing RSA CA 1 | 55 DF 90 C9 3C 35 90 95 08 86 06 6F 8B 00 B3 6C | CB89B4B505DD2FF5EDFCE618359FD6E288AD7905C2486103FF56FCD1D5DE1857 | FE 60 0C 99 B1 5B 6B 2D 04 48 9E 67 AA 30 E0 D6 C6 23 59 98 6D 2B 99 6E 31 BC 9C C9 3A C5 C9 4B | 10/31/2023 | 10/28/2033 |
| C = US, O = Leocert LLC, CN = Leocert TLS Issuing ECC CA 1 | 5B 70 BA BD 1E D5 E7 41 C0 F6 C3 92 E0 5A 34 0D | 79089DA0678E085080E58D54C462B313EF78416A8724FACE7D1A8937438E00C7 | 54 22 8C 48 43 E5 13 F5 A6 D7 28 75 71 59 0F 4F DA 85 5B DE 49 EB 8E 8E 33 D0 DD 8A 19 D3 12 B7 | 3/21/2024 | 3/19/2034 |
| C = US, O = Leocert LLC, CN = Leocert TLS Issuing RSA CA 1 | 0B 45 55 82 BC 21 06 25 24 09 DD 73 D4 90 94 88 | 1A70FE182751E637C0E5D3D553E75BDBA1D655FFE5411D9B390B73C8378FA72C | 4C B1 B7 93 5B E2 A6 5C 02 6B 81 48 37 AE B2 28 75 F0 53 0A 63 BA 4F B3 61 A5 C7 94 92 88 D6 66 | 3/21/2024 | 3/19/2034 |



| Intermediate CAs | | | | | |
|---|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation, CN=Entrust DV TLS Issuing RSA CA 1 | 07 2F D7 E1 F8 EA 82 40 10 D5 49 D3 7F 6C E1 CE | B76136F39DE4C5BF0FDF5531D3B116D2B3E5DD3C1EB7A69EC9DB20E931B4C528 | 81 1B 57 B4 13 EC 9F 3F 1F ED 54 E3 01 2A C1 CA 36 5B D1 5F 6B 75 6A 6C 73 42 24 4E 0E 49 82 15 | 8/22/2024 | 8/22/2027 |
| C=US, O=SSL Corporation, CN=Entrust DV TLS Issuing ECC CA 1 | 57 46 60 47 20 34 B5 E0 82 4F 87 D0 C4 BE DE D7 | 1A7BD13C77A02501E19B12D6E3CA17BE0B09B5D1AF7711C331A8C096D354D705 | 15 9B 5F 7D 1B C0 AB 9E 4C AD A7 97 E3 C4 51 FE 23 C3 39 7E 38 E4 28 14 EF DD E5 DA 28 FC 13 5B | 8/22/2024 | 8/22/2027 |
| C=US, O=SSL Corporation, CN=Entrust OV TLS Issuing RSA CA 1 | 48 C2 FB 64 1E B8 86 30 E0 BD 99 0B 99 8F C3 F2 | 345C0CF70370A56D465B8E6ED531B55CC8EB1DA5B26880775C589A2F43358D83 | 8A CF 74 A1 1C 5E 49 D2 17 5C 0F 72 38 1F 30 C3 33 09 92 51 71 3F 26 3E 15 F8 01 D2 DC FB AA FC | 8/22/2024 | 8/22/2027 |
| C=US, O=SSL Corporation, CN=Entrust OV TLS Issuing ECC CA 1 | 6F E6 3E DE 5F C1 C0 3A FB 6D 7A 85 BD 3A 15 6D | 87026A05BC3AD085A8E447C2D2864E2EBEC7D017DC488DE255CF4E5EB0576271 | 46 A9 EB 14 C2 5C A4 5E 4A DD 1A 78 00 57 4B E0 B4 10 35 FA 21 09 54 B4 45 78 E3 FD 87 17 98 9E | 8/22/2024 | 8/22/2027 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation, CN=Entrust EV TLS Issuing RSA CA 1 | 63 2E E5 20 E0 5A FF BC CE 19 04 58 24 CC 36 78 | D5612C7ED743B64CD8DB432CEDFEA582608D4223F119EFACE7A6753534392AC8 | FA CA A9 CC F4 00 4A 45 D5 C2 AC CF 70 BA 61 A5 5A D8 39 81 C2 A2 A8 0B EB FA 81 A2 3C 72 01 79 | 8/22/2024 | 8/22/2027 |
| C=US, O=SSL Corporation, CN=Entrust EV TLS Issuing ECC CA 1 | 1A E4 2C F5 AC 62 B7 27 61 E8 9C 3B 5D 99 51 69 | 90487DF9DA11848B04C9993B92EA7BEFD2EB73C5765A3C9BBAEEC3AB2E0D1440 | 51 0F 3A 06 7F F9 85 17 AB 4B 0F CA 95 13 DB 8E 00 81 90 50 13 3E 3E EE 12 C3 35 0D 29 95 CE B2 | 8/22/2024 | 8/22/2027 |
| C=MX,O=LATSSL (Intradigital Soluciones Tecnologicas S. de R.L. de C.V),CN=LATSSL EV TLS Issuing RSA CA 2 | 42 95 7F CB C5 46 19 4A 64 C1 9E CA 83 19 4D 49 | 595C68403E1C3ED74213B1AD2EB216E3C1CD2E458A9863785030D027552C9F93 | 0D 47 24 1A 1C E3 21 E7 8A AC E0 66 76 18 49 1B EA 2C 3C 9C 3C 20 16 F6 64 32 0C E2 4D 5F C4 25 | 5/7/2025 | 5/5/2035 |
| C=MX,O=LATSSL (Intradigital Soluciones Tecnologicas S. de R.L. de C.V),CN=LATSSL TLS Issuing RSA CA 2 | 5A FB B1 92 16 AC 7D 3F 5C FD 44 C5 86 45 D3 3E | 2411E6D673FBB7D296655FD97EFC2D54BC5F22B781F73A2338B44A62A148E642 | 20 80 E0 F9 09 71 63 A3 DF F8 3E 3B 66 62 B6 59 F4 72 A0 DC 23 34 11 27 C5 C2 E3 E4 AA 11 77 03 | 5/7/2025 | 5/5/2035 |



| Intermediate CAs | | | | | |
|---|--|--|--|------------|----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=VN,O=Hao Quang Viet Software Company Limited,CN=MuaSSL.com EV TLS Issuing ECC CA 2 | 3A EF 1F 24 0E 64 0F 00 C7 AE B0 04 20 28 8A CD | 6ED37A6CDAEDFF67B5224C27A120FECBFB98DA00FB95515491A9CA1962C651C0 | CC A1 17 AF 5C 18 47 CA 34 C9 E0 5B 2E 73 33 4A 93 9D 59 87 B6 04 9F 31 57 FF 3B 96 81 B1 97 10 | 5/7/2025 | 5/5/2035 |
| C=VN,O=Hao Quang Viet Software Company Limited,CN=MuaSSL.com EV TLS Issuing RSA CA 2 | 2D E6 41 7A A8 79 CF 1E 46 7E 25 73 04 8D E9 83 | 6837A498BB69DEC749FFF4FD1F5FFDC5665A7C1A326FC6D7A057866BA00AAFD2 | D0 F8 5E 41 9C 96 C0 E5 48 1B 60 1A 23 3D A7 F2 76 FC 0B B3 CF C4 C8 3C 51 40 D4 57 FA 27 85 BF | 5/7/2025 | 5/5/2035 |
| C=VN,O=Hao Quang Viet Software Company Limited,CN=MuaSSL.com TLS Issuing ECC CA 2 | 3F 63 E5 19 CF 64 E5 30 5C 24 4A AE 28 1A D3 C6 | 5F8EB0F8A666953A11AC0B537E70C7BDF20EC739FCD3ABC49051B825A1FD1673 | 5D A2 EB 43 DD 08 3D CC 03 A0 6C D5 C4 84 DB A0 D0 B2 B7 16 95 69 0D 63 75 42 2A F3 9D F7 A9 24 | 5/7/2025 | 5/5/2035 |
| C=VN,O=Hao Quang Viet Software Company Limited,CN=MuaSSL.com TLS Issuing RSA CA 2 | 27 87 9B 28 02 28 95 A5 DC CE 4C 4A EC 7F 2F 74 | 00878FD47459C4ADB75AF53FB2C25929776B33469E2EC967DF500CB879624BA8 | 64 62 6A 96 85 CC 8C 7D FF B4 6D F7 7D 4E 6F FF AE 52 1A 7A 9E BC E7 49 71 BA AD 19 76 B1 85 6C | 5/7/2025 | 5/5/2035 |



| Intermediate CAs | | | | | |
|---|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=CN,O=ZoTrus Technology Limited,CN=ZoTrus DV TLS ECC CA 1 | 6E A2 13 7D 92 FC 51 30 45 DA 31 F5 78 9E 52 C5 | FF93C10D46B63242394B8891C398A156D20B81F0B918EE52EB9F539126C80D97 | 3F A0 CC 06 EE 7A 09 33 C4 74 90 76 52 21 8A DC F4 2A D9 B3 1C F3 14 0B 39 74 A0 EF B5 87 3B 88 | 5/7/2025 | 5/5/2035 |
| C=CN,O=ZoTrus Technology Limited,CN=ZoTrus OV TLS ECC CA 1 | 48 96 D2 BA E0 D2 8B 93 EE B2 8F AC 81 A2 C8 6E | 689164A2B9F03C0E5E4D616CB1F453BDD5FC1A3D1C6ED93568C83A3812A7FC20 | 42 D2 89 3F 08 8D 24 FF 71 66 4F FF 5E 5D D8 BF 78 CA 04 AE 3C 94 54 89 E9 70 BA 7E 8C A8 9E DD | 5/7/2025 | 5/5/2035 |
| C=CN,O=ZoTrus Technology Limited,CN=ZoTrus EV TLS ECC CA 1 | 07 B9 76 46 92 F1 0A 68 7B A9 DE 5D CB 58 1C 09 | 1B18C2641FABBF87AF6B1ADEED01D5F234FB1032A70ABF7C36FEAE7A06C10F3C | F4 CD DE 90 0E CB 75 16 AB CB B5 BB 48 27 3B 33 C7 57 73 56 B0 2C A3 C7 98 13 52 D2 00 14 D6 6C | 5/7/2025 | 5/5/2035 |
| C=US,O=SSL Corporation,CN=CrowdStrike, Inc. OV TLS Issuing ECC CA 1 | 72 8C ED 8E 03 02 31 BA 1E D6 0B 65 01 D1 5D 5C | 8D2AB0655145C4A7805CC3080D7C23451848C6864DA0BEA9FFCC87ADAB552C61 | F3 FC 23 29 32 FC 62 F1 09 39 07 E2 9F 2A 89 D6 CB 27 79 F9 5E 05 25 0C EA 4A F2 E9 C5 5E 15 E6 | 9/26/2024 | 9/26/2027 |



| Intermediate CAs | | | | | |
|---|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US,O=SSL Corporation,CN=CrowdStrike, Inc. OV TLS Issuing RSA CA 1 | 20 AD B9 83 57 B3 7D 6B 7F E5 41 E0 85 6C F1 79 | 8C393E57F3D03A000D57F6756A15BC7865D185ADB053103FE875562036F44D32 | 82 0C 4B 3B 0A 8D 54 01 48 6C 27 07 A8 7E 25 AF 68 1B 3B 30 10 BF 5E 42 EF 6F 1D C4 C4 B9 15 53 | 9/26/2024 | 9/26/2027 |
| C=US,O=SSL Corporation,CN=Namirial S.p.A EV TLS Issuing RSA CA 1 | 13 BF 67 41 3D 27 35 7B ED AF 81 5E FD 30 4B 31 | AB3B58A111BD5975DC763DE55323E9D82B7F4EB2FB39436D9A1670FDFB3305E4 | CE 8C 41 FA 0B 6D BC 95 E1 00 3C 49 B1 CF C3 51 FC 93 B4 F0 C3 27 F2 FB D3 86 F3 F3 43 F7 A8 14 | 9/26/2024 | 9/26/2027 |
| C=US,O=SSL Corporation,CN=Namirial S.p.A OV TLS Issuing RSA CA 1 | 3A 7F 1D EE F3 66 5F 1B D2 26 4E 43 CD 7A 75 CB | 2893A1D054C8C47F79808742E2FD7853874FE5E65712B737BC5B2FC9D17C8EA7 | B9 95 BA 6E 57 E5 DC 2C E5 52 9B 7B 1C 12 F6 1D D5 3B 1D 8D 75 EA 37 CA 8A 58 BB B0 CF 06 91 44 | 9/26/2024 | 9/26/2027 |
| C=US, O=SSL Corporation,CN=Cloudflare TLS Issuing ECC CA 2 | 55 A0 44 B2 D8 90 E1 03 05 47 D8 EA 2C 73 2D 4B | B252FE1D3ACAD4CB21ABD2E798120FCA47863C433643751C675B80198E7880D8 | AD 10 9C 56 7B 1D 15 FD 20 64 C6 4F 4A 98 38 E5 A6 4B 25 94 22 06 E7 BB FE 57 E4 F9 6C 72 F8 B3 | 5/29/2025 | 5/27/2035 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation,CN=Cloudflare TLS Issuing ECC CA 3 | 31 EE E8 8A FB 87 CD 9E F8 33 66 04 74 3F 9B 27 | F15F29ABEF73AA4DD9AB754BAEAE3685BDD3874B46B525071177628685718026 | E3 8B E2 17 34 C2 FA 1F CB FB 73 87 46 0E 11 B3 9B F8 F8 07 29 CC 76 6F 23 D4 E7 7B 64 43 34 69 | 5/29/2025 | 5/27/2035 |
| C=US, O=SSL Corporation,CN=Cloudflare TLS Issuing ECC CA 4 | 60 4D 12 EC B7 08 34 C3 A2 C7 12 BF 9A 8C 7A 89 | 83D843E7EA9F8CAEF195AFF939AA1B622EEC1DEB1174F879AE223302ADA0F86F | 19 59 E3 8F B7 D3 FC 16 BE E5 E2 0E 83 4E 2C 66 67 BF 0E 9E 6B 98 06 B8 6B D4 0A 6D 66 C7 16 D0 | 5/29/2025 | 5/27/2035 |
| C=US, O=SSL Corporation,CN=Cloudflare TLS Issuing RSA CA 2 | 01 5A A5 32 2A 8C D5 D6 9A BF E3 FF A1 4E A7 7F | E60F5416989208F160C0385779B00C3FD875AAF6201073764FCA0FF72886E597 | 90 3D 9C 39 C1 6C EA 17 88 05 EA 46 84 12 74 4B 31 B9 73 9F DF AF 8C DA 74 F7 A7 2D BB 5E A6 AB | 5/29/2025 | 5/27/2035 |
| C=US, O=SSL Corporation,CN=Cloudflare TLS Issuing RSA CA 3 | 57 E6 14 D0 F2 B0 AE D4 B2 F8 2F 80 1B 3B 78 81 | F2EC7E0A2CF0E3550FD336CF16BAF09A71B4759DC4D98768021E8498943C7547 | C7 C8 98 0B 72 09 99 52 73 93 10 7A B7 A8 80 6F 5E A8 BB DA 38 1A 54 79 F7 04 AF 46 66 C4 A0 50 | 5/29/2025 | 5/27/2035 |



| Intermediate CAs | | | | | |
|--|--|--|--|------------|-----------|
| Subject | Serial Number | SHA256 Thumbprint | SPKI SHA256 | Valid From | Valid To |
| C=US, O=SSL Corporation,CN=Cloudflare TLS Issuing RSA CA 4 | 14 0F 56 48 69 F0 8B 10 47 D2 B0 3F 6D A1 17 71 | 764FB1B1F09F44E3B103CA06483E0E5A12DCD928230DB515131A1188869293B4 | 8E 05 65 36 C5 AA 09 BC DA 03 49 42 33 61 4B B0 77 2B DC 3E EF B9 BA FB 55 12 65 4F 47 A7 72 0F | 5/29/2025 | 5/27/2035 |