



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 the CAs enumerated in [Attachment B](#) in scope for SSL Baseline Requirements and Network Security Requirements, SSL.com has:

- disclosed its 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 SSL certificates in conformity with the CA/Browser Forum Requirements 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 SSL certificates it manages is established and protected throughout their lifecycles; and
 - SSL subscriber information is properly authenticated
- maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorized individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity

and, for its list of root and other CAs in scope for Network Security Requirements enumerated in [Attachment B](#) and [Attachment C](#):

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

throughout the period July 1, 2022 to June 30, 2023 based on the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.6](#).

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 - SSL Baseline with Network Security v2.6](#).



Independent Accountant's Responsibilities

Our responsibility is to express an opinion on SSL.com 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.

Other Matter

Without modifying our opinion, we noted the following other matters during our procedures:



Matter Topic		Matter
1	Certificate Revocation	For one (1) of six (6) certificate problem reports selected for testing, SSL.com was not able to provide evidence a preliminary report on its findings was distributed to both the subscriber and the entity who filed the Certificate Problem Report within twenty-four hours of the report being filed.

While the SSL.com assertion notes all issues disclosed on Bugzilla from July 1, 2022 through the date of this report, we have only noted those instances relevant to the CAs enumerated in [Attachment B](#) and [Attachment C](#) and applicable to the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.6](#).

Use of the WebTrust Seal

SSL.com's use of the WebTrust for Certification Authorities - SSL Baseline with Network Security 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

September 24, 2023



**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 1.15	March 30, 2022
SSL.com Certificate Policy and Certification Practice Statement	Version 1.16	September 14, 2022
SSL.com Certificate Policy and Certification Practice Statement	Version 1.17	May 11, 2023



ATTACHMENT B - IN-SCOPE CAs FOR SSL BASELINE REQUIREMENTS AND NETWORK SECURITY REQUIREMENTS

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



Root CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
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
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	5/31/2017	5/30/2042
	4E F2 32 17 6D 9B EA 14	89EFEB25096BA4CCD40AF4FB8756F0A4843995974822020914C4E859D932B7F3	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
C=US, O=SSL Corporation, CN=SSL.com Client ECC Root CA 2022	76 F8 48 1E AE F0 3C 70 1F E0 3F 25 54 01 83 D5	AD7DD58D03AEDB22A30B5084394920CE12230C2D8017AD9B81AB04079BDD026B	4C 34 32 C9 84 C6 6A E2 A7 54 74 39 83 CA 89 69 E2 F1 0F 40 86 38 4D C3 8B 80 60 53 2C B0 BE A7	8/25/2022	8/19/2046



Root CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=US, O=SSL Corporation, CN=SSL.com Client RSA Root CA 2022	76 AF EE 88 93 15 45 B6 50 53 9B 80 9C A4 DF 9A	1D4CA4A2AB21D0093659804FC0EB2175A617279B56A2475245C9517AFEB59153	3A 0E C5 4C 18 32 A2 81 DC 30 62 26 7F D9 37 42 90 08 E1 C8 41 B3 7B 4A 79 AB 1B DD 4C BA 57 FF	8/25/2022	8/19/2046
C=US, O=SSL Corporation, CN=SSL.com Code Signing ECC Root CA 2022	6E 8E E4 5B 10 4C C9 0C 7E B4 D8 88 8F E5 EC 64	E17DB396AFC136FF1D6DCDA4BB443DA2D817131855BE1C4B6FECEA221036722A	27 2E 47 1D AD ED 5C 93 95 99 BE 3F 82 6D E3 B8 FD C5 34 35 62 94 9B 2F 6D 51 3C 65 26 BE 3B 66	8/25/2022	8/19/2046
C=US, O=SSL Corporation, CN=SSL.com Code Signing RSA Root CA 2022	10 97 C4 9C 8C 25 43 28 BB A6 E8 B9 9B AB 4F A1	253E3CA36E37E867EE68867B997B9EC724DCC3161063AB0393B54F2BB7B6C315	A8 28 D6 F2 E0 16 2F 2E 43 46 3C 1E 97 C1 31 55 10 CA CA 76 5A E2 E6 E5 3F D3 EA BB D2 E1 AD 00	8/25/2022	8/19/2046
C=US, O=SSL Corporation, CN=SSL.com Document Signing ECC Root CA 2022	5A 88 B5 96 19 22 24 E5 6A 90 CA 0B BA D8 3A 2B	5ECE6AB27131FB58A887E94177D55BD9E51AAA2DED6C081B54A39BE3CB84E1F1	FE 1D E8 CD FB 89 2F 69 86 EC F5 04 CC F0 8C BB 0D 88 70 4C 79 97 67 57 48 4A C9 DD 52 B9 40 F3	8/25/2022	8/19/2046
C=US, O=SSL Corporation, CN=SSL.com Document Signing RSA Root CA 2022	50 D0 D5 0D AD DD 01 7E 55 D1 69 90 3B D2 1F 46	E807D49A859ABBC861C72CA907D443AD0FE87EAB9D99B913F2CB5B4AADABE641	59 38 48 D4 10 01 38 52 CC 6D 4B 69 20 83 50 6E 98 5A 3B 9D 60 4B 87 6A 61 91 B1 8F AC 27 3F F3	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 RSA R2	62 F8 12 A3 5F 52 BD 74 B7 18 D6 10 AC 4B 47 83	B97176F21B6ED64609267B2D1A2A9FAF0C4DEBD44644DC85EB6AE986FC867D56	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	9/11/2018	9/11/2023
C = US, ST = Texas, L = Houston, O = SSL Corporation, CN = SSL.com Root Certification Authority RSA	E4 27 04 95 F6 8C 91 D6 D0 EC 7B 49 4E A4 DF 1C	ACF718DF838E640051777D1947F51620E8D804BA186553AE52FC9811B5D34B8B	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	9/11/2018	9/11/2023
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



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=SC, ST=Mahé, L=Victoria, O=InterCloud Ventures Inc, CN=InterCloud Client Certificate CA ECC R3	62 53 81 85 75 B3 92 3E E5 B4 49 DF CA F9 A6 2A	70AB0FA1586CDAF616E9468AD889957DB88B2FA513260D5BFB4D718624BC9AB	14 0C 46 01 B3 99 5C 6A 74 BF B0 98 13 9B 71 FA A4 A7 10 C8 47 C6 B7 A3 FD 56 18 73 4B 0C F2 53	3/7/2019	3/4/2029
C=SC, ST=Mahé, L=Victoria, O=InterCloud Ventures Inc, CN=InterCloud SSL Certificate CA ECC R2	71 EB 41 5B EE A3 39 2C BC 7B BB 50 9E 9C A1 66	36CDCC7C8F383F7485658466FD950E753FCB019E250FD1BC1A06C5981D8A4188	61 93 F0 23 19 E9 95 86 41 18 9E 9A 0E F1 9C 30 75 AA 4A 22 CF 9A 14 B0 26 AD 9D 7C D7 49 A5 3B	3/7/2019	3/4/2029
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	8394E3D07EFCDD1E97EA6CBA214C3A055C17DD9A7EBF8DDE0020FCDDDB76F28653	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=SC, ST=Mahé, L=Victoria, O=InterCloud Ventures Inc, CN=InterCloud EV SSL Certificate CA RSA R3	46 D3 69 ED FB 2D B8 61 B3 DA CE A3 DF 2C F3 32	E56AEEEBF288069EEC2D6E198A27E19F9DF309135068CFA9354026943D24F3B1	84 F2 F3 1B A5 72 D6 07 F5 3C C5 96 80 B6 3C CF F6 B4 5B 2A B2 32 87 A3 F7 E6 EE 1E 9A EB A0 85	3/26/2019	3/23/2029



Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=SC, ST=Mahé, L=Victoria, O=InterCloud Ventures Inc, CN=InterCloud SSL Certificate CA RSA R2	39 74 27 66 A5 95 82 57 B9 BB 7C 16 4F 38 54 26	1347E97BF5B71C78DE00F2A44A9D07DF78E2E997E98E7038B7625765C97CDC47	CE 9D E2 00 59 4A 73 22 C0 32 A7 BE 30 96 63 82 9C 21 C2 62 EB 41 80 E5 54 41 CD 4C 27 22 05 0C	3/26/2019	3/23/2029
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
C=IL, O=Domain The Net Technologies Ltd, CN=Domain The Net Technologies Ltd CA for EV SSL R2	46 97 9A 4D E6 32 3C F3 53 A1 4C 90 5E 20 FF B3	3F31DB75828DAA96E4DE5B82A0678FE2023BD5B246C3F9250CBF6718E10958F5	2E 4D 7D 02 43 48 0B B0 30 1C D1 79 1E C5 3F A6 10 84 9D 40 48 F9 E8 80 D2 66 C5 87 1C 5E 42 C4	4/1/2019	3/30/2024



Intermediate CAs					
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 SSL R2	3F 0D 9C 83 67 28 98 D0 03 43 D9 B5 27 EE 4A 20	EAE59BA2CC33281A5CDDEC50CFBFD9DD0CA5565F3CEF698C9366A10CEC087F97	D4 50 6A 2F 24 6C 3F C8 9B C5 75 EC 5B AE 0B 61 61 93 79 83 06 4A C5 13 30 51 1E B5 44 1A 90 3F	4/1/2019	3/30/2024
C=MU, ST=Plaines Wilhems, L=Ebene, O=MilleniumSign Limited, CN=MilleniumSign EV SSL Certificate CA RSA R3	62 4F CA 20 1C BF 6B 0B 19 48 E1 8C 08 A9 F1 00	9BA665B86E2721F51EF0650B728568A93C0D69B56D8D38E630530E745D663B4F	15 DF 52 82 2C C2 40 1B 35 7C F7 F3 E5 8D 99 F8 1C A1 4D 8B 07 2B AC 93 D3 16 F3 AA B4 A2 72 C5	4/1/2019	3/30/2024
C=MU, ST=Plaines Wilhems, L=Ebene, O=MilleniumSign Limited, CN=MilleniumSign SSL Certificate CA ECC R2	38 54 46 73 62 4E B1 87 CC B8 36 36 2D 64 A8 3B	2C490F53013601163C7E9BA74870181989DA4700BDBCAE99AD2164E94285FB41	AD 91 F1 EA 85 AC 43 83 37 DA 97 09 2A C9 26 FB EC AB 1E 2D 73 9C 28 62 88 D9 FE 1F 2C 75 87 C3	4/1/2019	3/30/2024
C=MU, ST=Plaines Wilhems, L=Ebene, O=MilleniumSign Limited, CN=MilleniumSign SSL Certificate CA RSA R2	65 6B E8 63 39 CD B1 25 D1 AE 23 7E 92 C4 E9 AD	36C7E329750A403DB0BAF069C9A9F33963E5C98A66A8AB57016DB6F88CC5614D	D6 33 41 CA EF 4D E6 D7 39 90 BD 08 7D 65 B8 F8 02 14 42 7A 7A 96 35 4B 07 74 4E 5F E7 00 E9 BE	4/1/2019	3/30/2024
C=MU, ST=Plaines Wilhems, L=Ebene, O=Dodo Sign Ltd, CN=Dodo Sign TLS ICA RSA R1	10 DC 69 76 49 84 8F 93 D8 49 19 03 18 8F 81 7B	55844AD37B25BB4DB3FFE7DCDC39023A41B3C488A47A95FAD1FCFAD508B70285	40 19 E2 D6 76 B9 44 3D 74 57 47 A1 A1 A8 24 F8 EF 26 94 46 82 F2 43 F0 D6 01 FC FE EA 18 61 36	8/23/2019	8/19/2029



Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=MU, ST=Plaines Wilhems, L=Ebene, O=Dodo Sign Ltd, CN=Dodo Sign TLS ICA ECC R1	1E A0 61 71 A7 21 7A 68 C3 A3 D2 E3 2B 96 32 6E	53C0FC7B663439BC02BC146CA68ED2797D5CCC406A4A03370D8848380E1C2996	81 FA FB DE 77 87 28 36 70 61 39 AA 64 A8 4A B4 22 14 33 38 41 35 B5 6F 55 1B 84 D4 66 62 49 AC	8/23/2019	8/19/2029
C=MU, ST=Plaines Wilhems, L=Ebene, O=Dodo Sign Ltd, CN=Dodo Sign EV TLS ICA RSA R1	3E 54 1A 01 84 CD 8F DD 69 76 2B 36 2A 0C D7 FA	9DE61D4060E4CC43887182DDD5E616946AAA37B4316EE98C424490160F6C8CAA	D4 36 38 DE 50 DB EF 19 49 CC 3B CE 54 FB 58 53 92 46 CF 93 C6 5C C2 B8 86 AC 26 0B 4B 5F 62 93	8/23/2019	8/19/2029
C=MU, ST=Plaines Wilhems, L=Ebene, O=Dodo Sign Ltd, CN=Dodo Sign EV TLS ICA ECC R1	76 BC 89 44 55 CA A2 A9 C3 8C 5D B0 33 42 CA 74	F64D0694EDAE06D18491E6E9D31C6739979A2C81A25A8E639DFD7CE8DFDB3162	B9 AA 98 43 5E 63 F3 7C 05 43 0C 2A 4B 76 D8 0E B8 CA AC CF 34 D2 29 F3 72 F8 27 A2 8B 67 AD 84	8/23/2019	8/19/2029
C = SC, ST = Mahé, L = Victoria, O = SSL X Y & Z Corp., CN = SSL X Y & Z EV TLS CA ECC R1	3C B4 D6 96 47 CA 26 DD 63 40 81 35 81 95 01 3F	9037D9090A63664CEE444BE8633109765C90A9E0E0032A36C437E3BABBB94EDE	4E 09 BB E0 AF 04 6E E0 81 28 29 2D B9 D1 BD 0B F5 17 3B 98 AB C0 72 FC A8 D6 2E C5 D2 6F D4 1F	8/22/2019	8/19/2029
C = SC, ST = Mahé, L = Victoria, O = SSL X Y & Z Corp., CN = SSL X Y & Z EV TLS CA RSA R1	28 7A 49 A6 19 83 67 14 48 3C 16 46 47 FF 36 08	FC55270FECC7CD8B139E34CB0E896606B2B03BBF5848930A50A251343A36D10C	4C 94 1D E2 9F CC 6F 88 04 71 77 3F 7D AA B2 20 A0 F4 D8 95 49 B8 F7 11 98 33 FA 79 6A D8 8F 85	8/22/2019	8/19/2029



Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C = SC, ST = Mahé, L = Victoria, O = SSL X Y & Z Corp., CN = SSL X Y & Z TLS CA ECC R1	3D C0 07 E7 A5 CD 4F 1B 82 BF 70 CB EF 18 11 E2	7A7DADE08568FD3BFF2453E69B7A84D5BF4173B4BF58CD0643FF060C35F9165D	4C 2D 61 90 C8 A4 85 B3 5B 59 3E D3 8D 40 E7 1D DB 78 86 41 73 E1 D6 3B 50 BC 30 17 CF A5 7F 72	8/22/2019	8/19/2029
C = SC, ST = Mahé, L = Victoria, O = SSL X Y & Z Corp., CN = SSL X Y & Z TLS CA RSA R1	29 E2 82 78 01 99 DA 75 7A 1B 37 E0 73 46 7B 35	70C7E68119DFAD128A88E1D7AF8E74D5A19E2B19A1F5E8F008A9CF50F44F2DBB	47 84 FB 1D 7E A9 29 9A 7D AF B3 86 AF A3 72 09 87 1D 52 C1 07 FD A6 9D E9 97 ED FC B3 2F C9 FD	8/22/2019	8/19/2029
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 = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = EV TLS ECC ICA R1	0D 35 5E B5 15 E0 23 90 82 9A F1 6B 48 11 A2 FB	A5F4B826A58637F912B69FE859907243BDFEAA71A02DC4429D0664E214A0A9DB	1E 6F 98 7B 20 4F 7F 40 A0 CA A3 3B 8C 3A 07 0E 84 A7 F7 F5 BA A5 57 E0 3F D4 AC 5C 81 A1 E9 DE	12/5/2019	12/2/2029

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = EV TLS RSA ICA R1	5E 45 C2 56 9B 9D 2B BD 9C 13 CB E6 E3 54 7D 01	613BC7B39C378241EE953BA1A519E8F5FE30223B0457F10CC35E30A4933BA13F	80 15 FD F5 70 34 34 E1 14 77 AA D6 C8 CD 92 96 39 FF 44 76 AD 4D 48 E7 86 1F 82 4D 43 0D 17 D6	12/5/2019	12/2/2029
C = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = TLS ECC ICA R1	4F D2 FA C8 0F C5 A1 B5 E9 E8 7E 25 28 6F 5B 81	ED1FF4070F0868EB20A0319FC601919800F6E5EFD823A6156B27F89CB04B2C26	C7 46 FE 9C 6D C5 BE 6C 18 5D CE 21 CA 65 15 82 0A FE DF 98 23 5F 31 BE 46 DA AF 56 07 63 2D A6	12/5/2019	12/2/2029
C = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = TLS RSA ICA R1	08 D3 BB 1C 1D 6C 8C 41 8C 4C 26 38 37 C1 A1 7E	76AC5A7B74E310B9E624E7F7D118380CA9685B40C416C6B899E4A6D429BE7A3F	53 D2 DF 8D 3D AD A7 B0 C8 9E 33 9A C5 96 4A AC A5 55 57 49 E3 B6 BB B2 51 EC E3 2A 52 3D 10 22	12/5/2019	12/2/2029
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



Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C = GB, O = Quantum CA Limited, CN = Quantum Secure Site DV TLS CN RSA R1	66 3E 22 B3 F7 3C CB 78 DC 74 36 93 53 AB 24 C3	E477EDF11EB54F6F2EDD56987B3DBF8AFA6B85507AE792AC63CD41CE41AC1397	89 9C F4 A1 AA 51 8C AB E6 B3 29 5C A8 3C 1B C1 CB 01 19 FA E3 B5 27 94 BE B6 EA 79 66 AE 16 5A	2/9/2021	2/7/2031
C = GB, O = Quantum CA Limited, CN = Quantum Secure Site EV Pro TLS CN RSA R1	1E F4 71 B0 08 7B 0E F9 CC 44 FA F6 86 E0 75 4E	0291CF02849132F714E810C9D0B24DB37BAEABF8CC91781E6C338E141767C39B	19 B2 B2 6D 27 06 B0 E4 02 F2 24 E1 70 A0 66 A3 B9 7D 35 8C 71 9E 7D 37 78 3B 8A 17 A0 22 EF 1E	2/9/2021	2/7/2031
C = GB, O = Quantum CA Limited, CN = Quantum Secure Site OV Pro TLS CN RSA R1	50 75 8B B0 68 C7 CA 6B F8 4C C9 50 AB C2 65 39	36D19A9CDE6029D14DA4D951735190BB4CC6DB206D643F6474D7739474912299	C2 69 21 B9 C2 64 D2 4F EE FA F8 75 E7 9B 0D D6 C8 2D 77 35 B9 DF BB 3F 79 8A 9C 6D E6 26 E0 F5	2/9/2021	2/7/2031
C = GB, O = Quantum CA Limited, CN = Quantum Basic TLS DV RSA R1	0A F3 38 32 7C 1D 48 BA 41 75 3E BE B9 EA 60 29	FCCF7CE88A642874D1C107F4D10C6A7DD334797639BA98130454562C303AF170	38 1D C7 48 50 F1 CA 46 58 91 90 B3 88 90 3E EA 5E A2 1D 86 EC A8 DA E1 14 8A CC 83 F2 F8 E6 65	2/9/2021	2/7/2031
C = GB, O = Quantum CA Limited, CN = Quantum Secure Site EV TLS RSA R1	6D 95 77 7A AD B1 6F 93 95 4B 17 75 0F 2D D4 65	E836C135661901E0840E887AF6EE516C56550D644990C57BFA60E297C1517FFA	F0 9C A7 DF FD 0D AE F5 B2 B4 2E 74 02 54 2B 3C D6 1F F1 2B 02 6A 1C 69 F2 DE 5A F8 6F 32 7C 23	2/9/2021	2/7/2031



Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C = GB, O = Quantum CA Limited, CN = Quantum Secure Site OV TLS RSA R1	4E B6 AD 64 EA 15 BA 23 3C 32 B0 D4 91 67 00 63	6D558D22DDD6ED4CA13EE712FD42AF2294F2C9C6D7013C324710FFB8D8F36FA9	84 B7 FD 62 13 8D FB 29 1F F7 E6 9B DE BA DD CA 19 0B 7B AD CF 5A 32 2F B2 F8 21 AC 71 27 20 B0	2/9/2021	2/7/2031
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
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

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 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=CY, 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
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	24E7A0475697793ABF3E0DDDB04D542FFE7C93CC71D19F6067144ACA89A4CA678	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

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 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
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
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



Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
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
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



Intermediate 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	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
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



Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
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
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					
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



ATTACHMENT C - IN-SCOPE CAs FOR NETWORK SECURITY REQUIREMENTS ONLY

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 NAESB Client Authentication Intermediate CA RSA R1	47 3D AA 1A BD 3D 0B 2D	FC3F577DF125232A08E63DDA9AD74E10755750E1DFC80A9BF5281F411AE4C0EB	EC 2B 44 E3 D1 1B A6 F5 EC A4 0D 40 E7 2D 0B 0F BF F6 FE 38 50 3D F7 8D 03 65 06 0A 09 AE 95 73	7/6/2018	7/2/2033
C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com Client Certificate Intermediate CA RSA R1	62 80 F0 29 C4 06 DE B8	9B9C55D586F15F4FF0A12E3E87AA2AE5F6C0C218857E0DB4CC4A1BA74E493F54	61 E7 94 8D DF 78 49 C7 49 F2 2D BE 86 92 70 96 FE AC 58 01 DB 72 14 06 CF E4 DC D8 E3 C7 61 36	12/17/2018	12/13/2033
C=SC, O=InterCloud Ventures Inc, CN=InterCloud Ventures CA for ClientCert RSA	09 E6 F7 E5 DC 8A 10 BE	D7C0EF80A3DAC4DA5C7E953C625555966959DCA93122F22728850BEAAF1741AF	0D 5C F1 95 04 13 70 36 B1 45 BE D3 86 9E 3B 4A 42 6D 5E 58 52 19 AD A2 1E 09 D2 3E 00 08 70 A6	1/16/2019	1/13/2029
C=MU, O=MilleniumSign Limited, CN=MilleniumSign for ClientCert RSA	49 BC 54 B9 B7 32 A8 26	482F6936162DAC4EF7746E61CF81F3573C308A9F0CE6B41AB6E2E3F89B79F5BA	ED 14 7E 9B 10 AA BB 4C D7 00 AD 82 3C FE 7B 7B CA B4 A4 4F 00 0B 3E C7 7E BE D5 08 03 EE 33 3B	1/18/2019	1/17/2024
C=SC, ST=Mahé, L=Victoria, O=InterCloud Ventures Inc, CN=InterCloud Client Certificate CA RSA	60 82 42 D4 60 22 94 E9	EA3D1FC6BC85D3F28A279FECDD2716EDFB24801BA0A91731D9DD4F61C0005DCE0	0F 72 33 E0 95 11 29 A4 D1 81 C0 50 B8 9E 6E 1B 14 DE 48 F9 37 36 72 E0 9A 55 CB DD 61 67 DC B6	2/14/2019	2/11/2029



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 Root Certification Authority ECC	3F 2C 60 8C 5C F9 63 21	06B9722A699C57DFF1869F430B479BB6EB49AAE1184EAC9C5325C1334A34EA4C	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 EV Root Certification Authority ECC	7F A3 2B 28 B1 C9 AB 6C	60EF412EABE7C3FC6399EED1B633B777747515B29D721B963DD258BC498AB292	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
C=MU, ST=Plaines Wilhems, L=Ebene, O=MilleniumSign Limited, CN=MilleniumSign Client Certificate CA RSA	42 95 16 8C AE B4 6A 3B	C30825CC484D8A040E53CF149B1AC97DDDB7531BAAB9A02949955DD193A9234D	84 E1 63 18 06 3B D5 92 EE F0 F3 ED ED AD 9B 10 2C 29 E5 E4 3A E0 C5 61 99 8F 98 32 E4 68 CF D8	2/25/2019	2/24/2024
C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com Client Certificate Intermediate CA ECC R2	27 AB 85 FE 03 31 09 F1 FD B5 03 2D 57 7D 20 38	EAD0C5077C99F8FA40CC556DBC2EACA41F54E9D99EBD468956AEA8BEC5AAF76A	67 47 00 5C 26 F0 D7 1A 38 B1 5A 5E 12 C7 4F 0E 88 87 76 5B 85 1F BC 04 B5 CC ED F5 77 4A ED 27	3/7/2019	3/3/2034
C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com NAESB Client Authentication Intermediate CA ECC R2	42 16 E3 D1 58 44 A1 23 AF C3 6F B2 3B 6B 5F 8B	1BD9D336C9045DC17426B99AC2652FAE31CB9DC2AC3E19B04390C24B0BD4A8A0	F9 71 48 EF 8C BF DD 28 B5 DD B4 15 A9 4E E9 7A A9 6F FC 19 B5 07 AD 94 4C 9C EF 13 A5 56 D1 E8	3/7/2019	3/3/2034
C=SC, ST=Mahé, L=Victoria, O=InterCloud Ventures Inc, CN=InterCloud Client Certificate CA RSA R3	13 08 11 1F B6 93 E6 1A 3C 77 71 9E DA A9 CB 80	A04A514BB8114C03CB6BDB98172360CF0BE682E9FA11D5D8067309CED1151872	45 4E F3 ED 27 F6 77 95 8E 8D 69 C0 97 CA BE 9D 64 F3 1E C1 BF 35 1E 67 8D EB 30 72 6E 31 17 05	3/26/2019	3/23/2029



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 Client Certificate Enterprise Intermediate CA RSA R1	38 F1 A5 17 4E 21 C8 26 C9 52 D7 BF 9D DF 2F F2	17CD6504B275A6634EE0016EFFE53B26BFFCCA289C7DED4A1C8F4353CD05B09C	87 DB 2A 91 33 65 BD B1 C4 73 F4 82 7B 4F 4D 72 E2 AD D2 53 22 23 52 E8 56 39 7F DB BA 5F 4B 5C	3/26/2019	3/22/2034
C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com Client Certificate Intermediate CA RSA R2	07 9F DC 89 40 48 8A F1 D9 6F D2 74 0A 64 55 66	B6E44A69342D84363AB12182F2D2B888501B063A76BEB00350E38DDC74715034	8B 4F 23 83 44 01 42 61 0C F8 9A 89 81 0C 77 DB 77 C3 44 F4 46 75 5A 2A 2A 9D 47 EF 2C FB F4 86	3/26/2019	3/22/2034
C=MU, ST=Plaines Wilhems, L=Ebene, O=MilleniumSign Limited, CN=MilleniumSign Client Certificate CA ECC R3	14 49 E3 7A D9 B9 AC 8D BF 91 87 B1 47 0D DE CD	301119BCEB7A72E7E27B8AD8795FC9B2EAEC65757F6FFF4F5ABA161A1A268E8A	F3 77 75 21 5A F6 C5 3B C7 FC F6 8D 91 B9 D3 2F 89 1C 8B A9 A2 51 A1 6D 77 B4 0B 23 EC 3E 03 5C	4/1/2019	3/30/2024
C=MU, ST=Plaines Wilhems, L=Ebene, O=MilleniumSign Limited, CN=MilleniumSign Client Certificate CA RSA R3	56 75 C4 BA B2 C8 64 64 3A 16 20 2C BF 97 6C A5	CF1096BB9323D972DC324B67371DC04FF9D818F8325F9B1424FAFFC4861617DE	AF 18 D5 63 8C DC 4D 82 AD 20 E3 52 93 B9 FA 2F B3 2B 25 87 BF 34 3D 8D C1 A5 ED 35 05 0F E5 33	4/1/2019	3/30/2024
C=MU, ST=Plaines Wilhems, L=Ebene, O=Dodo Sign Ltd, CN=Dodo Sign SMIME ICA RSA R1	36 77 D3 3B 08 3A B4 06 07 66 7D C4 18 4E FE 4C	CED7917E56F4246FF1907EEFF9222D7DC811D286583A1F116C5F6175A8995FB1	69 05 75 0A E2 59 80 02 A9 8C 00 9E AE 41 A0 FC 2C 40 AD 96 0F 90 BD B3 80 38 64 23 C9 1A D6 5C	8/23/2019	8/19/2029
C=MU, ST=Plaines Wilhems, L=Ebene, O=Dodo Sign Ltd, CN=Dodo Sign Document Signing ICA RSA R1	46 E5 17 DF CB A9 70 E6 BF 68 F7 37 61 61 1E C1	A71F55A13CF91933C96804CF8626ABFEFF213D821377E1C79EA074184511C92	30 63 DC C0 72 74 42 FB AB 1A 5C D0 B7 F4 EC 74 B3 97 54 4A 12 23 1D A7 FC D1 C7 39 82 57 C3 75	8/23/2019	8/19/2029



Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C = SC, ST = Mahé, L = Victoria, O = SSL X Y & Z Corp., CN = SSL X Y & Z Document Signing CA RSA R1	60 5B 97 FC 49 16 1B 85 4C D2 EE 91 6F 57 49 6D	861DAB27BEF0D2D04CDFA288B2345ED5EAE1A979424765B8BDA5EC321193238A	25 01 70 24 68 3C CB 56 11 BA F8 C3 47 F5 D2 AB C9 17 85 B1 7E 2D 6F F2 CC 51 D5 05 68 AC E3 10	8/23/2019	8/19/2029
C = SC, ST = Mahé, L = Victoria, O = SSL X Y & Z Corp., CN = SSL X Y & Z SMIME CA RSA R1	5A F6 73 65 40 F1 FC 69 F8 1D 81 E9 65 65 76 9B	3160058E72B0587E753ACB14CB37D7F8F672D7BC53549F67D78F39CAB7861824	31 DA 06 0E B8 5C 0A 7F 0C 4F 04 86 DE 48 2B 7E 08 F5 6F 61 BE BB 6C 0D 9D 0A 58 63 A0 DA FD 12	8/22/2019	8/19/2029
C = NZ, O = SafeToOpen Ltd, CN = SafeToOpen ClientCert ICA RSA R1	28 EE F8 96 70 FE C9 7D F6 F0 2D BE FB 78 EB F4	76348ADEE48E61D7329EE483109651EA4B2E0B5C02F7DF2583FE1074ED9C6FEC	7B DF DB 8D FB 76 6F 23 F4 57 00 55 C8 C9 50 52 2A 88 7B 8A F4 61 19 F8 FE B2 A5 FA 44 37 56 DE	10/1/2019	9/28/2029
C = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = S/MIME ECC ICA R1	0A 95 B7 51 8C 1C F3 F3 52 01 6C E4 7E BF 5A 3C	60D355106DD6464F6ABE54FF59CDC68B9C9615E8B715271F57FC996F6CEF21DC	2A 72 47 76 05 A0 53 20 56 AF 52 E3 36 7C C0 14 DC D1 D2 DC 13 60 B6 56 92 50 6E 2F 4F 84 A4 16	12/5/2019	12/2/2029
C = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = S/MIME RSA ICA R1	7D 05 08 20 AE BA 12 82 2E 8B F3 8F 18 03 FE 77	768D18DFBE35D8FE66712F9877623D1510771B53F5BB819C624A15648F1FE509	9C 83 9A 3B AD 80 C4 53 16 D0 93 8A 8E CC B5 0D 9B 1E 96 8A 24 9D 1A 93 7E 63 B1 0C 47 CC D2 C4	12/5/2019	12/2/2029
C = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = Document Signing ECC ICA R1	05 22 AE 31 DF 7D FE 6D 9C 88 D4 ED 91 DF F7 86	3B91C4CD67ABDF1D5272EEBB2E27A779EF02D820CE02F64B53B9DC5E786743B8	15 9F 31 6A 42 D5 8D 52 83 DE 7F E9 44 1F 15 F6 A5 5B D6 59 89 B8 CE C9 05 8E AE CF 09 77 1E DD	12/5/2019	12/2/2029



Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = docSigning RSA ICA R1	74 29 31 31 02 87 2A D0 AF 05 26 20 66 A5 29 5B	9D61279D2232A87E108D78ABF2EBA18D24112F84B5636A2F43B39A00F1EA0078	C4 5C 95 2A 55 12 8E 7B 37 32 36 D6 78 91 53 19 C1 88 8A 33 FB 19 57 36 28 52 60 9B C6 D4 78 E7	12/5/2019	12/2/2029
C = GB, O = Quantum CA Limited, CN = Quantum EV Secure Code Signing CN RSA R1	29 FC B8 A5 51 FA 44 F6 A9 FF 05 17 5A 68 4F AC	663DEA3F6F286EB1F192EA424B83E18081CE9D0116855623BEDCE8A8140D3A46	E8 EF E1 E4 D6 96 22 D9 E1 5B 80 67 BF DA 60 65 03 E7 1E 79 42 18 4D 2F 5D 97 3F 41 51 D3 C6 6F	2/9/2021	2/7/2031
C = GB, O = Quantum CA Limited, CN = Quantum Secure Code Signing CN RSA R1	4E 33 A3 DF 03 8C 94 BD 56 11 A5 18 14 F6 8C E9	F1D12FBDA2BC4D6E6A080FB2B9D3D50326891BD2F46137FC173193E8B677AC84	82 8A 75 64 E7 2C DC A3 C9 0C 32 BE 80 63 52 48 72 68 1D 83 6B 9D 35 1D B5 55 27 A2 25 0D D9 CF	2/9/2021	2/7/2031
C = GB, O = Quantum CA Limited, CN = Quantum EV Secure Code Signing RSA R1	61 5B 1F 89 28 0A 67 76 A0 23 27 CE 3A BC A0 8A	FE6702302434EB3371F57B86668E3C582A17BA1B753A7B73D40292007312E571	10 AF BC 06 FA C2 41 FB 2A CE 41 D7 DB F5 B9 4E CF 77 5E F1 71 92 4C C1 70 00 CA 4E A8 77 ED F4	2/9/2021	2/7/2031
C = GB, O = Quantum CA Limited, CN = Quantum Secure Code Signing RSA R1	33 48 51 0D 6A A9 96 54 90 48 48 A1 4B E6 51 70	CC548E5A702717EDF7AF08DB3A64CACF8F85416AA6E761DF01A9C51C4E3ACA90	B4 B2 BC 31 8B 60 44 F0 59 E7 E8 7A 30 4B D1 DB 98 B2 6C 89 48 82 7E AC E9 6C D6 1B CD 25 2E CD	2/9/2021	2/7/2031
C=US, O=SSL Corp, CN=SSL.com Code Signing Transit ECC CA R1	30 37 90 C7 86 E6 A6 E7 8C BC A7 30 AA C2 71 04	704F0FD395EA2FF06E6769A69627290453985A4FB5D923DA255D27D5739CB464	C6 06 36 A6 30 FB 4F EC 0A FA 2D C6 13 D7 74 6B B9 18 6A 77 82 93 EB 85 A5 4F F9 CC 7F DF 5D EC	2/28/2022	2/24/2037



Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=US, O=SSL Corp, CN=SSL.com EV Code Signing Transit RSA CA R1	59 81 A2 6D F4 36 89 B5 5E 04 0A 76 EA 53 29 33	05E038D0EE8EBB28D52C188469676F1B22F4DF79EB40D9BDC20BCD017782EA28	68 1A 1B C9 86 B1 59 7B D7 F0 C1 23 63 AB 3F EB 26 DE CC 78 6D 68 42 F1 F0 C9 5C 4D 81 2B CB D9	2/28/2022	2/24/2037
C=US, O=SSL Corp, CN=SSL.com EV Code Signing Transit ECC CA R1	08 C8 59 53 A3 30 2B 71 31 45 5F 5B BE 5F 3B B2	7451863C68B08CDA11BEF0AD6D8F5B796D654E2018C1364D7360F1BB42B8A91A	2F 6E 17 E1 11 77 A8 5B 7D E8 A4 94 DC FC F1 37 B2 BB 14 69 A0 97 5F 29 9D 9E F7 D2 09 7B A7 63	2/28/2022	2/24/2037
C=US, O=SSL Corp, CN=SSL.com Client Authentication Issuing ECC CA R1	68 A2 11 0D 54 F4 F7 8F B5 1F 3C DF 41 91 04 E3	E37FBC7CC5BDD83D2DB27F6F71DB6C78A64974A718F7CDB59406B24F1977335A	8C 9C 4F 10 EF 47 68 8A 34 A8 FD 5E 3A 16 9F CF A4 37 D0 B3 2F CE 8C CB 41 0A 85 48 8E 18 A8 BF	3/21/2022	3/18/2032
C=US, O=SSL Corp, CN=SSL.com Client Authentication Issuing RSA CA R1	06 75 72 4B 3A E4 FE AF 38 06 58 2A 30 80 B7 F8	816CB0782117EEB32535CFFA12A7D40B60BD3B2258B79263F72D3D9F4B65C22C	F8 2D 1C CE 46 57 DD 31 0B 77 06 FB 8C 0C 3A 56 CF CD 2A 13 F8 25 77 21 23 37 0C 89 93 5F AF 5E	3/21/2022	3/18/2032
C=US, O=SSL Corp, CN=SSL.com Client Authentication Transit ECC CA R1	50 4F C2 8A F1 89 61 36 71 2B 8B 79 6A 82 DA 8F	57DBBE6283F762C1EE40525F5872180230FDF489D0FBC93F7BA39DAAF4F6B3B7	F2 8B B6 17 62 E7 7B 92 A6 8E AA 4C 50 55 50 80 E4 2E 75 1D 68 AA A3 F6 CD 2F EE CC 28 83 73 30	3/21/2022	3/17/2037
C=US, O=SSL Corp, CN=SSL.com Client Authentication Transit RSA CA R1	6F 4C 0E E9 E4 CB 69 7D A1 01 16 49 03 3E 5C 3B	0546601756A3F862E4DE2D1EDA3DB90EF271CAEF8D7B28A5FEE32D947269F137	AB 73 9E 40 5B F0 20 BB 19 C5 EB 7D 4D CF 07 37 6B A4 6C 52 FD A8 9E A8 73 A9 68 78 89 7F E4 FB	3/21/2022	3/17/2037



Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=US, O=SSL Corp, CN=SSL.com Document Signing Transit ECC CA R1	7D 56 47 82 2A 3F 02 FF 09 21 6C E5 91 68 2C 57	683ABF185050ED924D58D73493F5452C73DC364611107C436FDC2391643D0D0F	BB 24 4F 4E E1 47 B1 E2 B6 21 FD 89 1B 47 9E 7E 6D A8 EC 9E 25 99 C6 A2 FB 7A 18 BB 30 91 8A 26	3/21/2022	3/17/2037
C=US, O=SSL Corp, CN=SSL.com Document Signing Transit RSA CA R1	09 F6 00 32 F2 F1 54 20 ED 30 30 BF 29 CB 73 26	1A6CD68DD63F3466C0E4808C4D663376D58426301772339823CFB6E5BC075BD3	B6 84 0D 30 A6 25 84 5C D5 A7 B9 59 5B EF E0 A1 19 92 1C 4A 08 0C 13 BA 92 5C 19 55 3B A1 B6 D2	3/21/2022	3/17/2037
C = US, O = "Everything Legal, LLC", CN = EverythingLegal Document Signing Issuing RSA SubCA R1	79 52 8E B9 97 09 C6 F6 47 42 E7 19 70 14 D8 21	7D5EC2C66B03B65BBDDEADF87F42E679B1FF5A7701AD1766FF42AFE5F60AC889	EE C9 32 EA 27 21 BF B0 4D 69 12 85 C0 02 DF D5 47 54 FC 17 4E 0C 0F 7E BE 21 94 D0 E2 F4 A2 30	3/28/2022	3/25/2032
C=US, O=SSL Corporation, CN=SSL.com Code Signing Transit RSA CA R2	11 13 1C 1B 55 CA 2E C6 E4 98 E2 DD FD B3 9C 04	0D63478BCA93AA705B4323F4780E8EA03E2482D84F5E3F3666A83693C5AA38B7	95 CA AD C3 F3 53 8D 90 06 04 B7 C7 93 27 60 B6 0E 98 1C 5B D3 25 6B FE 9B C1 CB C7 A3 58 02 32	10/21/2022	10/17/2037
C=US, O=SSL Corporation, CN=SSL.com EV Code Signing Transit ECC CA R2	53 7B FC C3 CF DB 07 98 C0 D3 42 C4 42 69 55 A1	2CB0DDEEFB086DE6E30C44B2AF4F55A33A5B8AD6C18077B16EA6E34D7DBDB9CD	DA BB 24 C3 FB 80 23 76 DC 8C 18 16 5C EF 83 2F 86 53 F5 0C A6 B3 B5 86 D3 6B CA 6D 7F C3 29 95	10/21/2022	10/17/2037
C=US, O=SSL Corporation, CN=SSL.com EV Code Signing Transit RSA CA R2	7B 74 2A A6 61 66 E0 02 17 21 29 A7 AA B7 A5 EA	0480476404918700C3EA9BA7C8A089C694804F94B0ACFBE3967A33A3C919CAF3	AA 27 B1 AC 9C 1E 99 61 8E FB 0A 66 0D 3D F5 2B B5 05 A3 30 1A 8F 38 23 B7 7E 96 9A 30 0D 82 56	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 Document Signing Transit ECC CA R2	29 88 A9 39 64 A2 8F 54 1F 05 55 98 37 72 0D BD	5C8A484E466F94CB6D49A76053058D243A76D25BC7D763E0319DEDA323037615	C7 61 24 58 43 C1 68 8F 3C 31 3C 8B B6 F8 33 50 0C AD 97 63 08 DE 91 FC 97 78 01 B2 66 02 B6 A4	10/21/2022	10/17/2037
C=US, O=SSL Corporation, CN=SSL.com Document Signing Transit RSA CA R2	6D D5 A7 29 96 0E 97 BD 35 0A EE 8D 84 77 3D 1F	B8F10BF4FCBD60C23D82E4F2DF6CD77DB9978E88013C4E7FC01683F90FB8FC53	CC 23 B6 A8 C9 7A 2B 4C 70 07 67 50 92 12 C0 47 25 15 A4 0D 0F 35 5D 78 E5 FB 0D DD 36 A7 10 1E	10/21/2022	10/17/2037
C=US, O=SSL Corporation, CN=SSL.com S/MIME Transit ECC CA R2	63 83 BB DE E1 B1 1B 15 05 F5 86 85 C9 88 06 98	B6DAF35F591A2B30CDAC188D7A8F542C45E5560EFD607B984A306A8A755DA92E	7A 35 AB A2 87 44 63 90 05 1E 42 C5 43 5C CF DC FF 89 77 E6 38 76 A1 48 2C FB 54 A9 0C 0E 0D F9	10/21/2022	10/17/2037
C=US, O=SSL Corporation, CN=SSL.com S/MIME Transit RSA CA R2	12 C6 9C 81 43 1E 37 D6 BE A3 DC 71 6E A0 DD 1D	C3251AB91CC593221FE36D9D5701A5AC531532AFE816976611F5180995FDDCB	D7 B2 A9 B2 AC 58 50 60 2F BF 7E B9 08 7C AB 1D 81 07 67 2C 26 7E 74 97 5C 09 FA 9A 62 8C 5D C8	10/21/2022	10/17/2037
C=US, O=SSL Corporation, CN=SSL.com Code Signing Issuing ECC CA R1	2D 50 5A 0D FC 40 30 42 2E 8E E2 5D 44 F9 70 32	0F6104AA3E7917286779121505CFE5295FDFE918519B294423ACBA5D5DB808C7	62 FA B8 B8 BB 3B F3 E2 EE 5F 27 30 C3 C4 A3 9D EC B0 BF 77 9A DE 09 CC 20 02 19 A0 CC 49 6F 61	10/21/2022	10/18/2032
C=US, O=SSL Corporation, CN=SSL.com Code Signing Issuing RSA CA R1	74 ED 71 9B 8B 9D FB 1F 87 04 56 55 93 07 08 03	F098A5F04D281BB2A59BCEC9F7F144A91F5F9589D03BC102F02403C9A17FF8D5	05 3A 93 F3 AB 4B EE 30 39 0A B4 C4 AE A2 61 1D 61 30 03 DB B3 E4 4D 66 CB 15 17 19 6A 0E 3C 81	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 EV Code Signing Issuing ECC CA R1	79 D3 74 FA C4 0F 47 2E 2B 39 FB D8 9A 95 4A FB	B83E083D7DEC5B6C0514603E0F5FE7D5642072B145165123E737976A3B2FE1BE	30 92 2D D5 CC 18 DF FD 9A 80 53 7A 05 04 00 9F A8 02 42 DB 90 F2 48 AB A3 62 1C 05 F2 18 20 58	10/21/2022	10/18/2032
C=US, O=SSL Corporation, CN=SSL.com EV Code Signing Issuing RSA CA R1	78 6F 86 7A 06 03 FB 2D 50 C1 99 B4 D9 0A 95 10	846BBBBD457A61452CF33CFF09C0B461BE2415CD73C4945DB45F9E9819E06CDB	5E 8A DE 98 0A 93 FA A4 C2 88 1D C7 53 50 16 20 26 4F 49 32 29 7F 96 02 C5 16 93 1D 87 F7 34 1B	10/21/2022	10/18/2032
C=US, O=SSL Corporation, CN=SSL.com Document Signing Issuing ECC CA R1	42 F7 E7 32 18 A0 13 AA C2 2A C9 D8 EC A4 6A 97	CD04F49764E2104E603C2F5E51606DB172D7248A2679982F9B1D70C6AFFC94EA	F6 CA DB 70 44 8C D0 99 0E 1F E8 27 01 FD 34 47 48 9C 2A 9A 1C 43 D0 EE 42 BC 0A FA BD 8D 57 B0	10/21/2022	10/18/2032
C=US, O=SSL Corporation, CN=SSL.com Document Signing Issuing RSA CA R1	69 61 06 99 1D 3A 24 15 59 5B D6 36 6A C5 D6 1B	E11586A8C89219E43AEFA76BADCD5A384289BC557316B80D0AB85FAB7393005	B2 77 88 B4 79 6B 31 DF DE 53 37 BB 9B 9E 28 5C 45 D4 A7 0F A4 A1 C1 54 21 58 5B 6E EB B3 39 33	10/21/2022	10/18/2032
C=US, O=SSL Corporation, CN=SSL.com S/MIME Issuing ECC CA R1	6B 9C 08 D8 EA 19 03 9D 71 6C FD 51 F7 55 5D 64	26A29420D6B3DDFF25840D1C7930C15BF071EE10775738A63DE2A61A105E932A	CC 4C DC BC 28 84 8C E9 AD 8C E2 AF 6D 86 39 77 9A 39 96 8B 60 58 89 35 DA 91 3D 54 E1 30 37 98	10/21/2022	10/18/2032
C=US, O=SSL Corporation, CN=SSL.com S/MIME Issuing RSA CA R1	6A 71 E3 EA 7C 4A 99 3D C1 4A 34 22 C6 F6 20 50	030FE47ECE258C2EFEF45FE8FFCA62D14DB33F0212188E3B10D739797D29E28A	7E C3 52 3A 15 B4 08 E1 14 FD 66 88 FE 5B CE 49 25 26 F7 5C 86 D3 1E C4 87 6A 3E 28 6C 78 26 19	10/21/2022	10/18/2032



Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=SG,O=LEXAGLE PTE. LTD.,CN=Lexagle Document Signing Issuing ECC CA 1	42 48 CA 38 3B 5F 79 AB A5 6A 14 3C AE 50 0E 9F	B531B45A1A3384D9DA0575AB8A8493DBB621246B804EBFA27541D99DA4483B90	67 12 80 16 FB 1F DB F3 47 89 D9 8F 88 CC 08 53 BC D5 35 E1 45 03 64 CE 30 39 F6 48 52 88 3E BD	4/20/2023	4/17/2033
C=US,O=Staclar, Inc.,CN=Staclar Secure Identity CA R1	53 9A 9D A1 5F 3F 6D A9 AD A4 C9 57 2E 6F 3A 59	6324FFD1A7207E4A5ABEE785C74A907D2B6A592B6FBB34BB3DB1DF413C833147	EE D6 CA 3C C6 5C 66 D4 15 FF 07 8A B4 DF E0 41 FD D9 33 24 CF E4 A3 13 B1 44 D6 9A 97 62 C5 2B	4/24/2023	4/21/2033
C=IL,O=Domain The Net Technologies Ltd,CN=Domain The Net Technologies Ltd CA for Code Signing R3	7D 16 DA 78 40 46 EB 4C 7E 84 2B C8 75 AE 8C BC	079D4C03E8B68A881341BC4BF9FC5E4333CF6A5A6D1EE3CF81F3DB76ED28D96C	E1 A8 FF 52 61 F9 40 F6 41 F0 4A 7F 55 E9 2A 66 80 1A 24 E5 18 EE F9 EE EF CB 6E C5 73 39 C7 3D	5/26/2023	5/23/2033



Timestamping 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 Timestamping Intermediate CA RSA R1	01 DE E6 CE C9 2B 46 D8	554E3AE314AFF264D3FDE7F2BBC818F2E734D94B336208EDEFE7C37B162B6A96	81 A4 55 F5 1E F1 41 AF 1C EA 8B FF D9 9A B6 B9 42 EE 46 F8 DA 70 FA 33 D3 A4 13 1B 82 C1 D2 1D	4/6/2017	4/5/2032
C = US, ST = Texas, L = Houston, O = SSL Corp, CN = SSL.com Timestamping Issuing RSA CA R1	6D 52 18 70 87 E8 23 4D 85 60 00 D0 80 8F 93 56	5F4D2C0E0CBA7D1FB600EDD3506D4331C866A11F20D137054EE39CF514576679	E4 FB 37 31 AC 08 F9 36 63 9E B4 13 22 74 C6 48 CA A7 FC 5B 15 2C C4 08 80 C0 18 90 D0 71 A9 AB	11/13/2019	11/12/2019



Trust is what we do.

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](#) in scope for SSL Baseline Requirements and Network Security Requirements and provides SSL CA services.

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

- disclosed its 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 SSL certificates in conformity with the CA/Browser Forum Requirements 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 SSL certificates it manages is established and protected throughout their lifecycles; and
 - SSL subscriber information is properly authenticated
- maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorized individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity

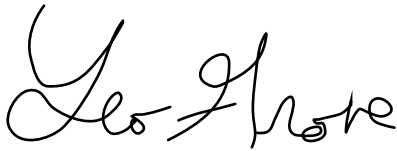
and, for the list of root and other CAs in scope for Network Security Requirements listed in [Attachment B](#) and [Attachment C](#):

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

throughout the period July 1, 2022 to June 30, 2023 based on the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.6](#).

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, 2022 through the date of this report.

Bug ID	Summary	Opened	Closed	Resolution
1752636	SSL.com: Delayed revocation of 53 certificates affected by bug #1750631	1/28/2022	7/25/2022	FIXED
1790693	SSL.com: Issuance of 1 EV TLS certificate using a Registration/Incorporation Agency not included in our approved public list.	9/13/2022	3/24/2023	FIXED
1800753	SSL.com: Delayed revocation of certificate with weak key	11/15/2022	7/21/2023	WON'T FIX
1832570	SSL.com: subCA/Reseller Issues	5/11/2023	-	---
1850171	SSL.com: S/MIME certificates issued prior to validation	8/25/2023	-	---



Leo Grove
Chief Executive Officer

September 24, 2023

**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 1.15	March 30, 2022
SSL.com Certificate Policy and Certification Practice Statement	Version 1.16	September 14, 2022
SSL.com Certificate Policy and Certification Practice Statement	Version 1.17	May 11, 2023

ATTACHMENT B - IN-SCOPE CAs FOR SSL BASELINE REQUIREMENTS AND NETWORK SECURITY REQUIREMENTS

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

Root CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=US, ST=Texas, L=Houston, O=Cyberdata LLC, CN=ecossll.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	5/31/2017	5/30/2042
	4E F2 32 17 6D 9B EA 14	89EFEB25096BA4CCD40AF4FB8756F0A4843995974822020914C4E859D932B7F3	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	8FAF7D2E2CB4709BB8E0B33666BF75A5DD45B5DE480F8EA8D4BFE6BEBEC17F2ED	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
C=US, O=SSL Corporation, CN=SSL.com Client ECC Root CA 2022	76 F8 48 1E AE F0 3C 70 1F E0 3F 25 54 01 83 D5	AD7DD58D03AEDB22A30B5084394920CE12230C2D8017AD9B81AB04079BDD026B	4C 34 32 C9 84 C6 6A E2 A7 54 74 39 83 CA 89 69 E2 F1 0F 40 86 38 4D C3 8B 80 60 53 2C B0 BE A7	8/25/2022	8/19/2046

Root CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=US, O=SSL Corporation, CN=SSL.com Client RSA Root CA 2022	76 AF EE 88 93 15 45 B6 50 53 9B 80 9C A4 DF 9A	1D4CA4A2AB21D0093659804FC0EB2175A617279B56A2475245C9517AFEB59153	3A 0E C5 4C 18 32 A2 81 DC 30 62 26 7F D9 37 42 90 08 E1 C8 41 B3 7B 4A 79 AB 1B DD 4C BA 57 FF	8/25/2022	8/19/2046
C=US, O=SSL Corporation, CN=SSL.com Code Signing ECC Root CA 2022	6E 8E E4 5B 10 4C C9 0C 7E B4 D8 88 8F E5 EC 64	E17DB396AFC136FF1D6DCDA4BB443DA2D817131855BE1C4B6FECEA221036722A	27 2E 47 1D AD ED 5C 93 95 99 BE 3F 82 6D E3 B8 FD C5 34 35 62 94 9B 2F 6D 51 3C 65 26 BE 3B 66	8/25/2022	8/19/2046
C=US, O=SSL Corporation, CN=SSL.com Code Signing RSA Root CA 2022	10 97 C4 9C 8C 25 43 28 BB A6 E8 B9 9B AB 4F A1	253E3CA36E37E867EE68867B997B9EC724DCC3161063AB0393B54F2BB7B6C315	A8 28 D6 F2 E0 16 2F 2E 43 46 3C 1E 97 C1 31 55 10 CA CA 76 5A E2 E6 E5 3F D3 EA BB D2 E1 AD 00	8/25/2022	8/19/2046
C=US, O=SSL Corporation, CN=SSL.com Document Signing ECC Root CA 2022	5A 88 B5 96 19 22 24 E5 6A 90 CA 0B BA D8 3A 2B	5ECE6AB27131FB58A887E94177D55BD9E51AAA2DED6C081B54A39BE3CB84E1F1	FE 1D E8 CD FB 89 2F 69 86 EC F5 04 CC F0 8C BB 0D 88 70 4C 79 97 67 57 48 4A C9 DD 52 B9 40 F3	8/25/2022	8/19/2046
C=US, O=SSL Corporation, CN=SSL.com Document Signing RSA Root CA 2022	50 D0 D5 0D AD DD 01 7E 55 D1 69 90 3B D2 1F 46	E807D49A859ABBC861C72CA907D443AD0FE87EAB9D99B913F2CB5B4AADABE641	59 38 48 D4 10 01 38 52 CC 6D 4B 69 20 83 50 6E 98 5A 3B 9D 60 4B 87 6A 61 91 B1 8F AC 27 3F F3	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 RSA R2	62 F8 12 A3 5F 52 BD 74 B7 18 D6 10 AC 4B 47 83	B97176F21B6ED64609267B2D1A2A9FAF0C4DEBD44644DC85EB6AE986FC867D56	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	9/11/2018	9/11/2023
C = US, ST = Texas, L = Houston, O = SSL Corporation, CN = SSL.com Root Certification Authority RSA	E4 27 04 95 F6 8C 91 D6 D0 EC 7B 49 4E A4 DF 1C	ACF718DF838E640051777D1947F51620E8D804BA186553AE52FC9811B5D34B8B	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	9/11/2018	9/11/2023
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

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=SC, ST=Mahé, L=Victoria, O=InterCloud Ventures Inc, CN=InterCloud Client Certificate CA ECC R3	62 53 81 85 75 B3 92 3E E5 B4 49 DF CA F9 A6 2A	70AB0FA1586CDAF616E9468AD889957DB88B2FA513260D5BFB4D718624BC9AB	14 0C 46 01 B3 99 5C 6A 74 BF B0 98 13 9B 71 FA A4 A7 10 C8 47 C6 B7 A3 FD 56 18 73 4B 0C F2 53	3/7/2019	3/4/2029
C=SC, ST=Mahé, L=Victoria, O=InterCloud Ventures Inc, CN=InterCloud SSL Certificate CA ECC R2	71 EB 41 5B EE A3 39 2C BC 7B BB 50 9E 9C A1 66	36CDCC7C8F383F7485658466FD950E753FCB019E250FD1BC1A06C5981D8A4188	61 93 F0 23 19 E9 95 86 41 18 9E 9A 0E F1 9C 30 75 AA 4A 22 CF 9A 14 B0 26 AD 9D 7C D7 49 A5 3B	3/7/2019	3/4/2029
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	8394E3D07EFCDD1E97EA6CBA214C3A055C17DD9A7EBF8DDE0020FCDDDB76F28653	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=SC, ST=Mahé, L=Victoria, O=InterCloud Ventures Inc, CN=InterCloud EV SSL Certificate CA RSA R3	46 D3 69 ED FB 2D B8 61 B3 DA CE A3 DF 2C F3 32	E56AEEEBF288069EEC2D6E198A27E19F9DF309135068CFA9354026943D24F3B1	84 F2 F3 1B A5 72 D6 07 F5 3C C5 96 80 B6 3C CF F6 B4 5B 2A B2 32 87 A3 F7 E6 EE 1E 9A EB A0 85	3/26/2019	3/23/2029

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=SC, ST=Mahé, L=Victoria, O=InterCloud Ventures Inc, CN=InterCloud SSL Certificate CA RSA R2	39 74 27 66 A5 95 82 57 B9 BB 7C 16 4F 38 54 26	1347E97BF5B71C78DE00F2A44A9D07DF78E2E997E98E7038B7625765C97CDC47	CE 9D E2 00 59 4A 73 22 C0 32 A7 BE 30 96 63 82 9C 21 C2 62 EB 41 80 E5 54 41 CD 4C 27 22 05 0C	3/26/2019	3/23/2029
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
C=IL, O=Domain The Net Technologies Ltd, CN=Domain The Net Technologies Ltd CA for EV SSL R2	46 97 9A 4D E6 32 3C F3 53 A1 4C 90 5E 20 FF B3	3F31DB75828DAA96E4DE5B82A0678FE2023BD5B246C3F9250CBF6718E10958F5	2E 4D 7D 02 43 48 0B B0 30 1C D1 79 1E C5 3F A6 10 84 9D 40 48 F9 E8 80 D2 66 C5 87 1C 5E 42 C4	4/1/2019	3/30/2024

Intermediate CAs					
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 SSL R2	3F 0D 9C 83 67 28 98 D0 03 43 D9 B5 27 EE 4A 20	EAE59BA2CC33281A5CDDEC50CFBFD9DD0CA5565F3CEF698C9366A10CEC087F97	D4 50 6A 2F 24 6C 3F C8 9B C5 75 EC 5B AE 0B 61 61 93 79 83 06 4A C5 13 30 51 1E B5 44 1A 90 3F	4/1/2019	3/30/2024
C=MU, ST=Plaines Wilhems, L=Ebene, O=MilleniumSign Limited, CN=MilleniumSign EV SSL Certificate CA RSA R3	62 4F CA 20 1C BF 6B 0B 19 48 E1 8C 08 A9 F1 00	9BA665B86E2721F51EF0650B728568A93C0D69B56D8D38E630530E745D663B4F	15 DF 52 82 2C C2 40 1B 35 7C F7 F3 E5 8D 99 F8 1C A1 4D 8B 07 2B AC 93 D3 16 F3 AA B4 A2 72 C5	4/1/2019	3/30/2024
C=MU, ST=Plaines Wilhems, L=Ebene, O=MilleniumSign Limited, CN=MilleniumSign SSL Certificate CA ECC R2	38 54 46 73 62 4E B1 87 CC B8 36 36 2D 64 A8 3B	2C490F53013601163C7E9BA74870181989DA4700BDBCAE99AD2164E94285FB41	AD 91 F1 EA 85 AC 43 83 37 DA 97 09 2A C9 26 FB EC AB 1E 2D 73 9C 28 62 88 D9 FE 1F 2C 75 87 C3	4/1/2019	3/30/2024
C=MU, ST=Plaines Wilhems, L=Ebene, O=MilleniumSign Limited, CN=MilleniumSign SSL Certificate CA RSA R2	65 6B E8 63 39 CD B1 25 D1 AE 23 7E 92 C4 E9 AD	36C7E329750A403DB0BAF069C9A9F33963E5C98A66A8AB57016DB6F88CC5614D	D6 33 41 CA EF 4D E6 D7 39 90 BD 08 7D 65 B8 F8 02 14 42 7A 7A 96 35 4B 07 74 4E 5F E7 00 E9 BE	4/1/2019	3/30/2024
C=MU, ST=Plaines Wilhems, L=Ebene, O=Dodo Sign Ltd, CN=Dodo Sign TLS ICA RSA R1	10 DC 69 76 49 84 8F 93 D8 49 19 03 18 8F 81 7B	55844AD37B25BB4DB3FFE7DCDC39023A41B3C488A47A95FAD1FCFAD508B70285	40 19 E2 D6 76 B9 44 3D 74 57 47 A1 A1 A8 24 F8 EF 26 94 46 82 F2 43 F0 D6 01 FC FE EA 18 61 36	8/23/2019	8/19/2029

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=MU, ST=Plaines Wilhems, L=Ebene, O=Dodo Sign Ltd, CN=Dodo Sign TLS ICA ECC R1	1E A0 61 71 A7 21 7A 68 C3 A3 D2 E3 2B 96 32 6E	53C0FC7B663439BC02BC146CA68ED2797D5CCC406A4A03370D8848380E1C2996	81 FA FB DE 77 87 28 36 70 61 39 AA 64 A8 4A B4 22 14 33 38 41 35 B5 6F 55 1B 84 D4 66 62 49 AC	8/23/2019	8/19/2029
C=MU, ST=Plaines Wilhems, L=Ebene, O=Dodo Sign Ltd, CN=Dodo Sign EV TLS ICA RSA R1	3E 54 1A 01 84 CD 8F DD 69 76 2B 36 2A 0C D7 FA	9DE61D4060E4CC43887182DDD5E616946AAA37B4316EE98C424490160F6C8CAA	D4 36 38 DE 50 DB EF 19 49 CC 3B CE 54 FB 58 53 92 46 CF 93 C6 5C C2 B8 86 AC 26 0B 4B 5F 62 93	8/23/2019	8/19/2029
C=MU, ST=Plaines Wilhems, L=Ebene, O=Dodo Sign Ltd, CN=Dodo Sign EV TLS ICA ECC R1	76 BC 89 44 55 CA A2 A9 C3 8C 5D B0 33 42 CA 74	F64D0694EDAE06D18491E6E9D31C6739979A2C81A25A8E639DFD7CE8DFDB3162	B9 AA 98 43 5E 63 F3 7C 05 43 0C 2A 4B 76 D8 0E B8 CA AC CF 34 D2 29 F3 72 F8 27 A2 8B 67 AD 84	8/23/2019	8/19/2029
C = SC, ST = Mahé, L = Victoria, O = SSL X Y & Z Corp., CN = SSL X Y & Z EV TLS CA ECC R1	3C B4 D6 96 47 CA 26 DD 63 40 81 35 81 95 01 3F	9037D9090A63664CEE444BE8633109765C90A9E0E0032A36C437E3BABBB94EDE	4E 09 BB E0 AF 04 6E E0 81 28 29 2D B9 D1 BD 0B F5 17 3B 98 AB C0 72 FC A8 D6 2E C5 D2 6F D4 1F	8/22/2019	8/19/2029
C = SC, ST = Mahé, L = Victoria, O = SSL X Y & Z Corp., CN = SSL X Y & Z EV TLS CA RSA R1	28 7A 49 A6 19 83 67 14 48 3C 16 46 47 FF 36 08	FC55270FECC7CD8B139E34CB0E896606B2B03BBF5848930A50A251343A36D10C	4C 94 1D E2 9F CC 6F 88 04 71 77 3F 7D AA B2 20 A0 F4 D8 95 49 B8 F7 11 98 33 FA 79 6A D8 8F 85	8/22/2019	8/19/2029

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C = SC, ST = Mahé, L = Victoria, O = SSL X Y & Z Corp., CN = SSL X Y & Z TLS CA ECC R1	3D C0 07 E7 A5 CD 4F 1B 82 BF 70 CB EF 18 11 E2	7A7DADE08568FD3BFF2453E69B7A84D5BF4173B4BF58CD0643FF060C35F9165D	4C 2D 61 90 C8 A4 85 B3 5B 59 3E D3 8D 40 E7 1D DB 78 86 41 73 E1 D6 3B 50 BC 30 17 CF A5 7F 72	8/22/2019	8/19/2029
C = SC, ST = Mahé, L = Victoria, O = SSL X Y & Z Corp., CN = SSL X Y & Z TLS CA RSA R1	29 E2 82 78 01 99 DA 75 7A 1B 37 E0 73 46 7B 35	70C7E68119DFAD128A88E1D7AF8E74D5A19E2B19A1F5E8F008A9CF50F44F2DBB	47 84 FB 1D 7E A9 29 9A 7D AF B3 86 AF A3 72 09 87 1D 52 C1 07 FD A6 9D E9 97 ED FC B3 2F C9 FD	8/22/2019	8/19/2029
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 = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = EV TLS ECC ICA R1	0D 35 5E B5 15 E0 23 90 82 9A F1 6B 48 11 A2 FB	A5F4B826A58637F912B69FE859907243BDFEAA71A02DC4429D0664E214A0A9DB	1E 6F 98 7B 20 4F 7F 40 A0 CA A3 3B 8C 3A 07 0E 84 A7 F7 F5 BA A5 57 E0 3F D4 AC 5C 81 A1 E9 DE	12/5/2019	12/2/2029

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = EV TLS RSA ICA R1	5E 45 C2 56 9B 9D 2B BD 9C 13 CB E6 E3 54 7D 01	613BC7B39C378241EE953BA1A519E8F5FE30223B0457F10CC35E30A4933BA13F	80 15 FD F5 70 34 34 E1 14 77 AA D6 C8 CD 92 96 39 FF 44 76 AD 4D 48 E7 86 1F 82 4D 43 0D 17 D6	12/5/2019	12/2/2029
C = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = TLS ECC ICA R1	4F D2 FA C8 0F C5 A1 B5 E9 E8 7E 25 28 6F 5B 81	ED1FF4070F0868EB20A0319FC601919800F6E5EFD823A6156B27F89CB04B2C26	C7 46 FE 9C 6D C5 BE 6C 18 5D CE 21 CA 65 15 82 0A FE DF 98 23 5F 31 BE 46 DA AF 56 07 63 2D A6	12/5/2019	12/2/2029
C = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = TLS RSA ICA R1	08 D3 BB 1C 1D 6C 8C 41 8C 4C 26 38 37 C1 A1 7E	76AC5A7B74E310B9E624E7F7D118380CA9685B40C416C6B899E4A6D429BE7A3F	53 D2 DF 8D 3D AD A7 B0 C8 9E 33 9A C5 96 4A AC A5 55 57 49 E3 B6 BB B2 51 EC E3 2A 52 3D 10 22	12/5/2019	12/2/2029
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

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C = GB, O = Quantum CA Limited, CN = Quantum Secure Site DV TLS CN RSA R1	66 3E 22 B3 F7 3C CB 78 DC 74 36 93 53 AB 24 C3	E477EDF11EB54F6F2EDD56987B3DBF8AFA6B85507AE792AC63CD41CE41AC1397	89 9C F4 A1 AA 51 8C AB E6 B3 29 5C A8 3C 1B C1 CB 01 19 FA E3 B5 27 94 BE B6 EA 79 66 AE 16 5A	2/9/2021	2/7/2031
C = GB, O = Quantum CA Limited, CN = Quantum Secure Site EV Pro TLS CN RSA R1	1E F4 71 B0 08 7B 0E F9 CC 44 FA F6 86 E0 75 4E	0291CF02849132F714E810C9D0B24DB37BAEABF8CC91781E6C338E141767C39B	19 B2 B2 6D 27 06 B0 E4 02 F2 24 E1 70 A0 66 A3 B9 7D 35 8C 71 9E 7D 37 78 3B 8A 17 A0 22 EF 1E	2/9/2021	2/7/2031
C = GB, O = Quantum CA Limited, CN = Quantum Secure Site OV Pro TLS CN RSA R1	50 75 8B B0 68 C7 CA 6B F8 4C C9 50 AB C2 65 39	36D19A9CDE6029D14DA4D951735190BB4CC6DB206D643F6474D7739474912299	C2 69 21 B9 C2 64 D2 4F EE FA F8 75 E7 9B 0D D6 C8 2D 77 35 B9 DF BB 3F 79 8A 9C 6D E6 26 E0 F5	2/9/2021	2/7/2031
C = GB, O = Quantum CA Limited, CN = Quantum Basic TLS DV RSA R1	0A F3 38 32 7C 1D 48 BA 41 75 3E BE B9 EA 60 29	FCCF7CE88A642874D1C107F4D10C6A7DD334797639BA98130454562C303AF170	38 1D C7 48 50 F1 CA 46 58 91 90 B3 88 90 3E EA 5E A2 1D 86 EC A8 DA E1 14 8A CC 83 F2 F8 E6 65	2/9/2021	2/7/2031
C = GB, O = Quantum CA Limited, CN = Quantum Secure Site EV TLS RSA R1	6D 95 77 7A AD B1 6F 93 95 4B 17 75 0F 2D D4 65	E836C135661901E0840E887AF6EE516C56550D644990C57BFA60E297C1517FFA	F0 9C A7 DF FD 0D AE F5 B2 B4 2E 74 02 54 2B 3C D6 1F F1 2B 02 6A 1C 69 F2 DE 5A F8 6F 32 7C 23	2/9/2021	2/7/2031

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C = GB, O = Quantum CA Limited, CN = Quantum Secure Site OV TLS RSA R1	4E B6 AD 64 EA 15 BA 23 3C 32 B0 D4 91 67 00 63	6D558D22DDD6ED4CA13EE712FD42AF2294F2C9C6D7013C324710FFB8D8F36FA9	84 B7 FD 62 13 8D FB 29 1F F7 E6 9B DE BA DD CA 19 0B 7B AD CF 5A 32 2F B2 F8 21 AC 71 27 20 B0	2/9/2021	2/7/2031
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
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

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 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=CY, 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
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	24E7A0475697793ABF3E0DDDB04D542FFE7C93CC71D19F6067144ACA89A4CA678	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

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 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
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
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

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
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
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

Intermediate 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	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
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

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
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
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					
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

ATTACHMENT C - IN-SCOPE CAs FOR NETWORK SECURITY REQUIREMENTS ONLY

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 NAESB Client Authentication Intermediate CA RSA R1	47 3D AA 1A BD 3D 0B 2D	FC3F577DF125232A08E63DDA9AD74E10755750E1DFC80A9BF5281F411AE4C0EB	EC 2B 44 E3 D1 1B A6 F5 EC A4 0D 40 E7 2D 0B 0F BF F6 FE 38 50 3D F7 8D 03 65 06 0A 09 AE 95 73	7/6/2018	7/2/2033
C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com Client Certificate Intermediate CA RSA R1	62 80 F0 29 C4 06 DE B8	9B9C55D586F15F4FF0A12E3E87AA2AE5F6C0C218857E0DB4CC4A1BA74E493F54	61 E7 94 8D DF 78 49 C7 49 F2 2D BE 86 92 70 96 FE AC 58 01 DB 72 14 06 CF E4 DC D8 E3 C7 61 36	12/17/2018	12/13/2033
C=SC, O=InterCloud Ventures Inc, CN=InterCloud Ventures CA for ClientCert RSA	09 E6 F7 E5 DC 8A 10 BE	D7C0EF80A3DAC4DA5C7E953C625555966959DCA93122F22728850BEAAF1741AF	0D 5C F1 95 04 13 70 36 B1 45 BE D3 86 9E 3B 4A 42 6D 5E 58 52 19 AD A2 1E 09 D2 3E 00 08 70 A6	1/16/2019	1/13/2029
C=MU, O=MilleniumSign Limited, CN=MilleniumSign for ClientCert RSA	49 BC 54 B9 B7 32 A8 26	482F6936162DAC4EF7746E61CF81F3573C308A9F0CE6B41AB6E2E3F89B79F5BA	ED 14 7E 9B 10 AA BB 4C D7 00 AD 82 3C FE 7B 7B CA B4 A4 4F 00 0B 3E C7 7E BE D5 08 03 EE 33 3B	1/18/2019	1/17/2024
C=SC, ST=Mahé, L=Victoria, O=InterCloud Ventures Inc, CN=InterCloud Client Certificate CA RSA	60 82 42 D4 60 22 94 E9	EA3D1FC6BC85D3F28A279FECD2716EDFB24801BA0A91731D9DD4F61C0005DCE0	0F 72 33 E0 95 11 29 A4 D1 81 C0 50 B8 9E 6E 1B 14 DE 48 F9 37 36 72 E0 9A 55 CB DD 61 67 DC B6	2/14/2019	2/11/2029

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 Root Certification Authority ECC	3F 2C 60 8C 5C F9 63 21	06B9722A699C57DFF1869F430B479BB6EB49AAE1184EAC9C5325C1334A34EA4C	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 EV Root Certification Authority ECC	7F A3 2B 28 B1 C9 AB 6C	60EF412EABE7C3FC6399EED1B633B777747515B29D721B963DD258BC498AB292	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
C=MU, ST=Plaines Wilhems, L=Ebene, O=MilleniumSign Limited, CN=MilleniumSign Client Certificate CA RSA	42 95 16 8C AE B4 6A 3B	C30825CC484D8A040E53CF149B1AC97DDDB7531BAAB9A02949955DD193A9234D	84 E1 63 18 06 3B D5 92 EE F0 F3 ED ED AD 9B 10 2C 29 E5 E4 3A E0 C5 61 99 8F 98 32 E4 68 CF D8	2/25/2019	2/24/2024
C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com Client Certificate Intermediate CA ECC R2	27 AB 85 FE 03 31 09 F1 FD B5 03 2D 57 7D 20 38	EAD0C5077C99F8FA40CC556DBC2EACA41F54E9D99EBD468956AEA8BEC5AAF76A	67 47 00 5C 26 F0 D7 1A 38 B1 5A 5E 12 C7 4F 0E 88 87 76 5B 85 1F BC 04 B5 CC ED F5 77 4A ED 27	3/7/2019	3/3/2034
C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com NAESB Client Authentication Intermediate CA ECC R2	42 16 E3 D1 58 44 A1 23 AF C3 6F B2 3B 6B 5F 8B	1BD9D336C9045DC17426B99AC2652FAE31CB9DC2AC3E19B04390C24B0BD4A8A0	F9 71 48 EF 8C BF DD 28 B5 DD B4 15 A9 4E E9 7A A9 6F FC 19 B5 07 AD 94 4C 9C EF 13 A5 56 D1 E8	3/7/2019	3/3/2034

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=SC, ST=Mahé, L=Victoria, O=InterCloud Ventures Inc, CN=InterCloud Client Certificate CA RSA R3	13 08 11 1F B6 93 E6 1A 3C 77 71 9E DA A9 CB 80	A04A514BB8114C03CB6BDB98172360CF0BE682E9FA11D5D8067309CED1151872	45 4E F3 ED 27 F6 77 95 8E 8D 69 C0 97 CA BE 9D 64 F3 1E C1 BF 35 1E 67 8D EB 30 72 6E 31 17 05	3/26/2019	3/23/2029
C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com Client Certificate Enterprise Intermediate CA RSA R1	38 F1 A5 17 4E 21 C8 26 C9 52 D7 BF 9D DF 2F F2	17CD6504B275A6634EE0016EFFE53B26BFFCCA289C7DED4A1C8F4353CD05B09C	87 DB 2A 91 33 65 BD B1 C4 73 F4 82 7B 4F 4D 72 E2 AD D2 53 22 23 52 E8 56 39 7F DB BA 5F 4B 5C	3/26/2019	3/22/2034
C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com Client Certificate Intermediate CA RSA R2	07 9F DC 89 40 48 8A F1 D9 6F D2 74 0A 64 55 66	B6E44A69342D84363AB12182F2D2B888501B063A76BEB00350E38DDC74715034	8B 4F 23 83 44 01 42 61 0C F8 9A 89 81 0C 77 DB 77 C3 44 F4 46 75 5A 2A 2A 9D 47 EF 2C FB F4 86	3/26/2019	3/22/2034
C=MU, ST=Plaines Wilhems, L=Ebene, O=MilleniumSign Limited, CN=MilleniumSign Client Certificate CA ECC R3	14 49 E3 7A D9 B9 AC 8D BF 91 87 B1 47 0D DE CD	301119BCEB7A72E7E27B8AD8795FC9B2EAEC65757F6FFF4F5ABA161A1A268E8A	F3 77 75 21 5A F6 C5 3B C7 FC F6 8D 91 B9 D3 2F 89 1C 8B A9 A2 51 A1 6D 77 B4 0B 23 EC 3E 03 5C	4/1/2019	3/30/2024
C=MU, ST=Plaines Wilhems, L=Ebene, O=MilleniumSign Limited, CN=MilleniumSign Client Certificate CA RSA R3	56 75 C4 BA B2 C8 64 64 3A 16 20 2C BF 97 6C A5	CF1096BB9323D972DC324B67371DC04FF9D818F8325F9B1424FAFFC4861617DE	AF 18 D5 63 8C DC 4D 82 AD 20 E3 52 93 B9 FA 2F B3 2B 25 87 BF 34 3D 8D C1 A5 ED 35 05 0F E5 33	4/1/2019	3/30/2024

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=MU, ST=Plaines Wilhems, L=Ebene, O=Dodo Sign Ltd, CN=Dodo Sign SMIME ICA RSA R1	36 77 D3 3B 08 3A B4 06 07 66 7D C4 18 4E FE 4C	CED7917E56F4246FF1907EEFF9222D7DC811D286583A1F116C5F6175A8995FB1	69 05 75 0A E2 59 80 02 A9 8C 00 9E AE 41 A0 FC 2C 40 AD 96 0F 90 BD B3 80 38 64 23 C9 1A D6 5C	8/23/2019	8/19/2029
C=MU, ST=Plaines Wilhems, L=Ebene, O=Dodo Sign Ltd, CN=Dodo Sign Document Signing ICA RSA R1	46 E5 17 DF CB A9 70 E6 BF 68 F7 37 61 61 1E C1	A71F55A13CF91933C96804CF8626ABFEEFF213D821377E1C79EA074184511C92	30 63 DC C0 72 74 42 FB AB 1A 5C D0 B7 F4 EC 74 B3 97 54 4A 12 23 1D A7 FC D1 C7 39 82 57 C3 75	8/23/2019	8/19/2029
C = SC, ST = Mahé, L = Victoria, O = SSL X Y & Z Corp., CN = SSL X Y & Z Document Signing CA RSA R1	60 5B 97 FC 49 16 1B 85 4C D2 EE 91 6F 57 49 6D	861DAB27BEF0D2D04CDFA288B2345ED5EAE1A979424765B8BDA5EC321193238A	25 01 70 24 68 3C CB 56 11 BA F8 C3 47 F5 D2 AB C9 17 85 B1 7E 2D 6F F2 CC 51 D5 05 68 AC E3 10	8/23/2019	8/19/2029
C = SC, ST = Mahé, L = Victoria, O = SSL X Y & Z Corp., CN = SSL X Y & Z SMIME CA RSA R1	5A F6 73 65 40 F1 FC 69 F8 1D 81 E9 65 65 76 9B	3160058E72B0587E753ACB14CB37D7F8F672D7BC53549F67D78F39CAB7861824	31 DA 06 0E B8 5C 0A 7F 0C 4F 04 86 DE 48 2B 7E 08 F5 6F 61 BE BB 6C 0D 9D 0A 58 63 A0 DA FD 12	8/22/2019	8/19/2029
C = NZ, O = SafeToOpen Ltd, CN = SafeToOpen ClientCert ICA RSA R1	28 EE F8 96 70 FE C9 7D F6 F0 2D BE FB 78 EB F4	76348ADEE48E61D7329EE483109651EA4B2E0B5C02F7DF2583FE1074ED9C6FEC	7B DF DB 8D FB 76 6F 23 F4 57 00 55 C8 C9 50 52 2A 88 7B 8A F4 61 19 F8 FE B2 A5 FA 44 37 56 DE	10/1/2019	9/28/2029

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = S/MIME ECC ICA R1	0A 95 B7 51 8C 1C F3 F3 52 01 6C E4 7E BF 5A 3C	60D355106DD6464F6ABE54FF59CDC68B9C9615E8B715271F57FC996F6CEF21DC	2A 72 47 76 05 A0 53 20 56 AF 52 E3 36 7C C0 14 DC D1 D2 DC 13 60 B6 56 92 50 6E 2F 4F 84 A4 16	12/5/2019	12/2/2029
C = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = S/MIME RSA ICA R1	7D 05 08 20 AE BA 12 82 2E 8B F3 8F 18 03 FE 77	768D18DFBE35D8FE66712F9877623D1510771B53F5BB819C624A15648F1FE509	9C 83 9A 3B AD 80 C4 53 16 D0 93 8A 8E CC B5 0D 9B 1E 96 8A 24 9D 1A 93 7E 63 B1 0C 47 CC D2 C4	12/5/2019	12/2/2029
C = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = Document Signing ECC ICA R1	05 22 AE 31 DF 7D FE 6D 9C 88 D4 ED 91 DF F7 86	3B91C4CD67ABDF1D5272EEBB2E27A779EF02D820CE02F64B53B9DC5E786743B8	15 9F 31 6A 42 D5 8D 52 83 DE 7F E9 44 1F 15 F6 A5 5B D6 59 89 B8 CE C9 05 8E AE CF 09 77 1E DD	12/5/2019	12/2/2029
C = SC, ST = Mahé, L = Victoria, O = Public Key Infrastructure Ltd, CN = docSigning RSA ICA R1	74 29 31 31 02 87 2A D0 AF 05 26 20 66 A5 29 5B	9D61279D2232A87E108D78ABF2EBA18D24112F84B5636A2F43B39A00F1EA0078	C4 5C 95 2A 55 12 8E 7B 37 32 36 D6 78 91 53 19 C1 88 8A 33 FB 19 57 36 28 52 60 9B C6 D4 78 E7	12/5/2019	12/2/2029
C = GB, O = Quantum CA Limited, CN = Quantum EV Secure Code Signing CN RSA R1	29 FC B8 A5 51 FA 44 F6 A9 FF 05 17 5A 68 4F AC	663DEA3F6F286EB1F192EA424B83E18081CE9D0116855623BEDCE8A8140D3A46	E8 EF E1 E4 D6 96 22 D9 E1 5B 80 67 BF DA 60 65 03 E7 1E 79 42 18 4D 2F 5D 97 3F 41 51 D3 C6 6F	2/9/2021	2/7/2031

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C = GB, O = Quantum CA Limited, CN = Quantum Secure Code Signing CN RSA R1	4E 33 A3 DF 03 8C 94 BD 56 11 A5 18 14 F6 8C E9	F1D12FBDA2BC4D6E6A080FB2B9D3D50326891BD2F46137FC173193E8B677AC84	82 8A 75 64 E7 2C DC A3 C9 0C 32 BE 80 63 52 48 72 68 1D 83 6B 9D 35 1D B5 55 27 A2 25 0D D9 CF	2/9/2021	2/7/2031
C = GB, O = Quantum CA Limited, CN = Quantum EV Secure Code Signing RSA R1	61 5B 1F 89 28 0A 67 76 A0 23 27 CE 3A BC A0 8A	FE6702302434EB3371F57B86668E3C582A17BA1B753A7B73D40292007312E571	10 AF BC 06 FA C2 41 FB 2A CE 41 D7 DB F5 B9 4E CF 77 5E F1 71 92 4C C1 70 00 CA 4E A8 77 ED F4	2/9/2021	2/7/2031
C = GB, O = Quantum CA Limited, CN = Quantum Secure Code Signing RSA R1	33 48 51 0D 6A A9 96 54 90 48 48 A1 4B E6 51 70	CC548E5A702717EDF7AF08DB3A64CACF8F85416AA6E761DF01A9C51C4E3ACA90	B4 B2 BC 31 8B 60 44 F0 59 E7 E8 7A 30 4B D1 DB 98 B2 6C 89 48 82 7E AC E9 6C D6 1B CD 25 2E CD	2/9/2021	2/7/2031
C=US, O=SSL Corp, CN=SSL.com Code Signing Transit ECC CA R1	30 37 90 C7 86 E6 A6 E7 8C BC A7 30 AA C2 71 04	704F0FD395EA2FF06E6769A69627290453985A4FB5D923DA255D27D5739CB464	C6 06 36 A6 30 FB 4F EC 0A FA 2D C6 13 D7 74 6B B9 18 6A 77 82 93 EB 85 A5 4F F9 CC 7F DF 5D EC	2/28/2022	2/24/2037
C=US, O=SSL Corp, CN=SSL.com EV Code Signing Transit RSA CA R1	59 81 A2 6D F4 36 89 B5 5E 04 0A 76 EA 53 29 33	05E038D0EE8EBB28D52C188469676F1B22F4DF79EB40D9BDC20BCD017782EA28	68 1A 1B C9 86 B1 59 7B D7 F0 C1 23 63 AB 3F EB 26 DE CC 78 6D 68 42 F1 F0 C9 5C 4D 81 2B CB D9	2/28/2022	2/24/2037

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=US, O=SSL Corp, CN=SSL.com EV Code Signing Transit ECC CA R1	08 C8 59 53 A3 30 2B 71 31 45 5F 5B BE 5F 3B B2	7451863C68B08CDA11BEF0AD6D8F5B796D654E2018C1364D7360F1BB42B8A91A	2F 6E 17 E1 11 77 A8 5B 7D E8 A4 94 DC FC F1 37 B2 BB 14 69 A0 97 5F 29 9D 9E F7 D2 09 7B A7 63	2/28/2022	2/24/2037
C=US, O=SSL Corp, CN=SSL.com Client Authentication Issuing ECC CA R1	68 A2 11 0D 54 F4 F7 8F B5 1F 3C DF 41 91 04 E3	E37FBC7CC5BDDDB3D2DB27F6F71DB6C78A64974A718F7CDB59406B24F1977335A	8C 9C 4F 10 EF 47 68 8A 34 A8 FD 5E 3A 16 9F CF A4 37 D0 B3 2F CE 8C CB 41 0A 85 48 8E 18 A8 BF	3/21/2022	3/18/2032
C=US, O=SSL Corp, CN=SSL.com Client Authentication Issuing RSA CA R1	06 75 72 4B 3A E4 FE AF 38 06 58 2A 30 80 B7 F8	816CB0782117EEB32535CFFA12A7D40B60BD3B2258B79263F72D3D9F4B65C22C	F8 2D 1C CE 46 57 DD 31 0B 77 06 FB 8C 0C 3A 56 CF CD 2A 13 F8 25 77 21 23 37 0C 89 93 5F AF 5E	3/21/2022	3/18/2032
C=US, O=SSL Corp, CN=SSL.com Client Authentication Transit ECC CA R1	50 4F C2 8A F1 89 61 36 71 2B 8B 79 6A 82 DA 8F	57DBBE6283F762C1EE40525F5872180230FDF489D0FBC93F7BA39DAAF4F6B3B7	F2 8B B6 17 62 E7 7B 92 A6 8E AA 4C 50 55 50 80 E4 2E 75 1D 68 AA A3 F6 CD 2F EE CC 28 83 73 30	3/21/2022	3/17/2037
C=US, O=SSL Corp, CN=SSL.com Client Authentication Transit RSA CA R1	6F 4C 0E E9 E4 CB 69 7D A1 01 16 49 03 3E 5C 3B	0546601756A3F862E4DE2D1EDA3DB90EF271CAEF8D7B28A5FEE32D947269F137	AB 73 9E 40 5B F0 20 BB 19 C5 EB 7D 4D CF 07 37 6B A4 6C 52 FD A8 9E A8 73 A9 68 78 89 7F E4 FB	3/21/2022	3/17/2037

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=US, O=SSL Corp, CN=SSL.com Document Signing Transit ECC CA R1	7D 56 47 82 2A 3F 02 FF 09 21 6C E5 91 68 2C 57	683ABF185050ED924D58D73493F5452C73DC364611107C436FDC2391643D0D0F	BB 24 4F 4E E1 47 B1 E2 B6 21 FD 89 1B 47 9E 7E 6D A8 EC 9E 25 99 C6 A2 FB 7A 18 BB 30 91 8A 26	3/21/2022	3/17/2037
C=US, O=SSL Corp, CN=SSL.com Document Signing Transit RSA CA R1	09 F6 00 32 F2 F1 54 20 ED 30 30 BF 29 CB 73 26	1A6CD68DD63F3466C0E4808C4D663376D58426301772339823CFB6E5BC075BD3	B6 84 0D 30 A6 25 84 5C D5 A7 B9 59 5B EF E0 A1 19 92 1C 4A 08 0C 13 BA 92 5C 19 55 3B A1 B6 D2	3/21/2022	3/17/2037
C = US, O = "Everything Legal, LLC", CN = EverythingLegal Document Signing Issuing RSA SubCA R1	79 52 8E B9 97 09 C6 F6 47 42 E7 19 70 14 D8 21	7D5EC2C66B03B65BBDDDEADF87F42E679B1FF5A7701AD1766FF42AFE5F60AC889	EE C9 32 EA 27 21 BF B0 4D 69 12 85 C0 02 DF D5 47 54 FC 17 4E 0C 0F 7E BE 21 94 D0 E2 F4 A2 30	3/28/2022	3/25/2032
C=US, O=SSL Corporation, CN=SSL.com Code Signing Transit RSA CA R2	11 13 1C 1B 55 CA 2E C6 E4 98 E2 DD FD B3 9C 04	0D63478BCA93AA705B4323F4780E8EA03E2482D84F5E3F3666A83693C5AA38B7	95 CA AD C3 F3 53 8D 90 06 04 B7 C7 93 27 60 B6 0E 98 1C 5B D3 25 6B FE 9B C1 CB C7 A3 58 02 32	10/21/2022	10/17/2037
C=US, O=SSL Corporation, CN=SSL.com EV Code Signing Transit ECC CA R2	53 7B FC C3 CF DB 07 98 C0 D3 42 C4 42 69 55 A1	2CB0DDDEEFB086DE6E30C44B2AF4F55A33A5B8AD6C18077B16EA6E34D7DBDB9CD	DA BB 24 C3 FB 80 23 76 DC 8C 18 16 5C EF 83 2F 86 53 F5 0C A6 B3 B5 86 D3 6B CA 6D 7F C3 29 95	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 Code Signing Transit RSA CA R2	7B 74 2A A6 61 66 E0 02 17 21 29 A7 AA B7 A5 EA	0480476404918700C3EA9BA7C8A089C694804F94B0ACFBE3967A33A3C919CAF3	AA 27 B1 AC 9C 1E 99 61 8E FB 0A 66 0D 3D F5 2B B5 05 A3 30 1A 8F 38 23 B7 7E 96 9A 30 0D 82 56	10/21/2022	10/17/2037
C=US, O=SSL Corporation, CN=SSL.com Document Signing Transit ECC CA R2	29 88 A9 39 64 A2 8F 54 1F 05 55 98 37 72 0D BD	5C8A484E466F94CB6D49A76053058D243A76D25BC7D763E0319DEDA323037615	C7 61 24 58 43 C1 68 8F 3C 31 3C 8B B6 F8 33 50 0C AD 97 63 08 DE 91 FC 97 78 01 B2 66 02 B6 A4	10/21/2022	10/17/2037
C=US, O=SSL Corporation, CN=SSL.com Document Signing Transit RSA CA R2	6D D5 A7 29 96 0E 97 BD 35 0A EE 8D 84 77 3D 1F	B8F10BF4FCBD60C23D82E4F2DF6CD77DB9978E88013C4E7FC01683F90FB8FC53	CC 23 B6 A8 C9 7A 2B 4C 70 07 67 50 92 12 C0 47 25 15 A4 0D 0F 35 5D 78 E5 FB 0D DD 36 A7 10 1E	10/21/2022	10/17/2037
C=US, O=SSL Corporation, CN=SSL.com S/MIME Transit ECC CA R2	63 83 BB DE E1 B1 1B 15 05 F5 86 85 C9 88 06 98	B6DAF35F591A2B30CDAC188D7A8F542C45E5560EFD607B984A306A8A755DA92E	7A 35 AB A2 87 44 63 90 05 1E 42 C5 43 5C CF DC FF 89 77 E6 38 76 A1 48 2C FB 54 A9 0C 0E 0D F9	10/21/2022	10/17/2037
C=US, O=SSL Corporation, CN=SSL.com S/MIME Transit RSA CA R2	12 C6 9C 81 43 1E 37 D6 BE A3 DC 71 6E A0 DD 1D	C3251AB91CC593221FE36D9D5701A5AC531532AFE816976611F5180995FDDCB	D7 B2 A9 B2 AC 58 50 60 2F BF 7E B9 08 7C AB 1D 81 07 67 2C 26 7E 74 97 5C 09 FA 9A 62 8C 5D C8	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 Code Signing Issuing ECC CA R1	2D 50 5A 0D FC 40 30 42 2E 8E E2 5D 44 F9 70 32	0F6104AA3E7917286779121505CFE5295FDFE918519B294423ACBA5D5DB808C7	62 FA B8 B8 BB 3B F3 E2 EE 5F 27 30 C3 C4 A3 9D EC B0 BF 77 9A DE 09 CC 20 02 19 A0 CC 49 6F 61	10/21/2022	10/18/2032
C=US, O=SSL Corporation, CN=SSL.com Code Signing Issuing RSA CA R1	74 ED 71 9B 8B 9D FB 1F 87 04 56 55 93 07 08 03	F098A5F04D281BB2A59BCEC9F7F144A91F5F9589D03BC102F02403C9A17FF8D5	05 3A 93 F3 AB 4B EE 30 39 0A B4 C4 AE A2 61 1D 61 30 03 DB B3 E4 4D 66 CB 15 17 19 6A 0E 3C 81	10/21/2022	10/18/2032
C=US, O=SSL Corporation, CN=SSL.com EV Code Signing Issuing ECC CA R1	79 D3 74 FA C4 0F 47 2E 2B 39 FB D8 9A 95 4A FB	B83E083D7DEC5B6C0514603E0F5FE7D5642072B145165123E737976A3B2FE1BE	30 92 2D D5 CC 18 DF FD 9A 80 53 7A 05 04 00 9F A8 02 42 DB 90 F2 48 AB A3 62 1C 05 F2 18 20 58	10/21/2022	10/18/2032
C=US, O=SSL Corporation, CN=SSL.com EV Code Signing Issuing RSA CA R1	78 6F 86 7A 06 03 FB 2D 50 C1 99 B4 D9 0A 95 10	846BBBBD457A61452CF33CFF09C0B461BE2415CD73C4945DB45F9E9819E06CDB	5E 8A DE 98 0A 93 FA A4 C2 88 1D C7 53 50 16 20 26 4F 49 32 29 7F 96 02 C5 16 93 1D 87 F7 34 1B	10/21/2022	10/18/2032
C=US, O=SSL Corporation, CN=SSL.com Document Signing Issuing ECC CA R1	42 F7 E7 32 18 A0 13 AA C2 2A C9 D8 EC A4 6A 97	CD04F49764E2104E603C2F5E51606DB172D7248A2679982F9B1D70C6AFFC94EA	F6 CA DB 70 44 8C D0 99 0E 1F E8 27 01 FD 34 47 48 9C 2A 9A 1C 43 D0 EE 42 BC 0A FA BD 8D 57 B0	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 Document Signing Issuing RSA CA R1	69 61 06 99 1D 3A 24 15 59 5B D6 36 6A C5 D6 1B	E11586A8C89219E43AEFA76BADCD5A384289BC557316B80D0AB85FAB7393005	B2 77 88 B4 79 6B 31 DF DE 53 37 BB 9B 9E 28 5C 45 D4 A7 0F A4 A1 C1 54 21 58 5B 6E EB B3 39 33	10/21/2022	10/18/2032
C=US, O=SSL Corporation, CN=SSL.com S/MIME Issuing ECC CA R1	6B 9C 08 D8 EA 19 03 9D 71 6C FD 51 F7 55 5D 64	26A29420D6B3DDFF25840D1C7930C15BF071EE10775738A63DE2A61A105E932A	CC 4C DC BC 28 84 8C E9 AD 8C E2 AF 6D 86 39 77 9A 39 96 8B 60 58 89 35 DA 91 3D 54 E1 30 37 98	10/21/2022	10/18/2032
C=US, O=SSL Corporation, CN=SSL.com S/MIME Issuing RSA CA R1	6A 71 E3 EA 7C 4A 99 3D C1 4A 34 22 C6 F6 20 50	030FE47ECE258C2EFEF45FE8FFCA62D14DB33F0212188E3B10D739797D29E28A	7E C3 52 3A 15 B4 08 E1 14 FD 66 88 FE 5B CE 49 25 26 F7 5C 86 D3 1E C4 87 6A 3E 28 6C 78 26 19	10/21/2022	10/18/2032
C=SG,O=LEXAGLE PTE. LTD.,CN=Lexagle Document Signing Issuing ECC CA 1	42 48 CA 38 3B 5F 79 AB A5 6A 14 3C AE 50 0E 9F	B531B45A1A3384D9DA0575AB8A8493DBB621246B804EBFA27541D99DA4483B90	67 12 80 16 FB 1F DB F3 47 89 D9 8F 88 CC 08 53 BC D5 35 E1 45 03 64 CE 30 39 F6 48 52 88 3E BD	4/20/2023	4/17/2033
C=US,O=Staclar, Inc.,CN=Staclar Secure Identity CA R1	53 9A 9D A1 5F 3F 6D A9 AD A4 C9 57 2E 6F 3A 59	6324FFD1A7207E4A5ABEE785C74A907D2B6A592B6FBB34BB3DB1DF413C833147	EE D6 CA 3C C6 5C 66 D4 15 FF 07 8A B4 DF E0 41 FD D9 33 24 CF E4 A3 13 B1 44 D6 9A 97 62 C5 2B	4/24/2023	4/21/2033

Intermediate CAs					
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 Code Signing R3	7D 16 DA 78 40 46 EB 4C 7E 84 2B C8 75 AE 8C BC	079D4C03E8B68A881341BC4BF9FC5E4333CF6A5A6D1EE3CF81F3DB76ED28D96C	E1 A8 FF 52 61 F9 40 F6 41 F0 4A 7F 55 E9 2A 66 80 1A 24 E5 18 EE F9 EE EF CB 6E C5 73 39 C7 3D	5/26/2023	5/23/2033

Timestamping 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 Timestamping Intermediate CA RSA R1	01 DE E6 CE C9 2B 46 D8	554E3AE314AFF264D3FDE7F2BBC818F2E734D94B336208EDEFE7C37B162B6A96	81 A4 55 F5 1E F1 41 AF 1C EA 8B FF D9 9A B6 B9 42 EE 46 F8 DA 70 FA 33 D3 A4 13 1B 82 C1 D2 1D	4/6/2017	4/5/2032
C = US, ST = Texas, L = Houston, O = SSL Corp, CN = SSL.com Timestamping Issuing RSA CA R1	6D 52 18 70 87 E8 23 4D 85 60 00 D0 80 8F 93 56	5F4D2C0E0CBA7D1FB600EDD3506D4331C866A11F20D137054EE39CF514576679	E4 FB 37 31 AC 08 F9 36 63 9E B4 13 22 74 C6 48 CA A7 FC 5B 15 2C C4 08 80 C0 18 90 D0 71 A9 AB	11/13/2019	11/12/2019