



REPORT OF THE INDEPENDENT ACCOUNTANT

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

We have examined SSL.com management’s [assertion](#) that for its Certification Authority (“CA”) operations in Houston, Texas, throughout the period July 1, 2019 to June 30, 2020 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 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

based on the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.4.1](#). SSL.com’s management is responsible for its assertion. Our responsibility is to express an opinion on management’s assertion based on our examination.

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.



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.

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

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

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

Matter Topic		Matter
1	Certificate Content	SSL.com disclosed in Mozilla Bug #1620772 it issued a precertificate with a known Debian weak key. SSL.com checks for known weak keys before issuance as required by the Baseline Requirements, however the source used did not contain the key in question.
2	Certificate Request Validation	For one (1) of the 10 OV SSL certificates selected for testing, the validation decision to use the locality information of an alternate location was not fully supported by the retained evidence. This matter was publicly disclosed in Mozilla Bug 1666872 .

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

The World Health Organization classified the COVID-19 outbreak as a pandemic in March 2020. Based on the rapid increase in exposure globally, the gravity or length of the impact of the COVID-19 outbreak cannot be estimated at this time.



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, LLP

September 24, 2020



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

Policy Name	Policy Version	Policy Date
<u>SSL.com Certificate Policy and Certification Practice Statement</u>	Version 1.9	May 29, 2020
<u>SSL.com Certificate Policy and Certification Practice Statement</u>	Version 1.8	October 16, 2019
<u>SSL.com Certificate Policy and Certification Practice Statement</u>	Version 1.7	September 20, 2019
<u>SSL.com Certificate Policy and Certification Practice Statement</u>	Version 1.6	May 20, 2019



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	024F53114851ADB33EACCF07C75CFE66E95BD6360627272E062FD26683A5E6C	56 D0 A4 CA 61 E3 9D E9 F3 69 94 08 B5 CA 98 4D 91 57 49 F7 80 D2 BE 20 42 18 6E 62 EE A0 1D 66	5/31/2017	5/30/2042



Root CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=US, ST=Texas, L=Houston, O=Cyberdata LLC, CN=ecossl.com Root Certification Authority RSA R1	45 CA BA 64 C1 8F 49 BE	D72FD588F611A247E440A72A5B7D0772E8F846E456E64FCFFD44BEAF14DFC2D9	16 95 ED 67 97 52 FA 53 8B 1D CA 21 DD C5 12 BD 39 D8 76 92 C0 66 37 34 C2 9B 6F 7B 48 56 46 38	5/31/2017	5/30/2042
C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com Root Certification Authority ECC	75 E6 DF CB C1 68 5B A8	3417BB06CC6007DA1B961C920B8AB4CE3FAD820E4AA30B9ACBC4A74EBDCEBC65	A3 20 F4 D5 34 D7 BE 97 C1 AE 8D D0 49 97 35 BC 89 5C 32 3A DD 2D 38 8B FC CF 66 2C 23 D7 F9 9A	2/12/2016	2/12/2041
C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com Root Certification Authority ECC R2	21 E2 5B 95 AD 24 99 74	FECF02BC40C1C8846478D022789CB8BE031B4BB7CE477B712CAE6BE06DC8A452	E2 97 29 01 3B 7B 50 4C 48 5C EE 0F C6 32 41 37 C6 F8 BA 17 3D 39 A9 77 29 30 BE 96 56 47 65 08	5/31/2017	5/30/2042
C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority ECC	2C 29 9C 5B 16 ED 05 95	22A2C1F7BDED704CC1E701B5F408C310880FE956B5DE2A4A44F99C873A25A7C8	34 87 67 CD AD 3B DD 28 B2 B8 DD 53 51 AE C3 0C 68 CE C5 CD 69 D2 76 DF 38 27 DB C4 F5 80 64 64	2/12/2016	2/12/2041
C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority ECC R2	1E A0 54 BB 00 4F 1E F2	5D6DE7323F82EC96A1DC3ACEADF2685696EDC2431DB271C4C917FCE1CDB50299	95 62 FE 00 5C CA AA 06 BE 27 52 F8 45 E3 B3 48 57 F9 50 CA BE 5A C1 50 F9 53 81 F2 A8 06 30 F3	5/31/2017	5/30/2042
C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority RSA R2	56 B6 29 CD 34 BC 78 F6	2E7BF16CC22485A7BBE2AA8696750761B0AE39BE3B2FE9D0CC6D4EF73491425C	7C D6 7C 24 8F 69 D8 3F C2 F9 BB 01 DC B1 F7 AD 67 A3 63 D0 46 04 37 96 D0 98 4C 3A 23 1F 6B B0	5/31/2017	5/30/2042
	4E F2 32 17 6D 9B EA 14	89EFEB25096BA4CCD40AF4FB8756F0A4843995974822020914C4E859D932B7F3		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



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	527A60B02ABF3A4A5519C4F62FBB560E3034074EEEC8B8799AA9368693FE36D	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
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	70AB0FA1586CDCAF616E9468AD889957DB88B2FA513260D5BFB4D718624BC9AB	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



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 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	8394E3D07EFC1E97EA6CBA214C3A055C17DD9A7EBF8DDE0020FCDDDB76F28653	77 5B 4A B9 1D 9A 14 59 E1 C3 C7 91 06 83 5E 8B BB 01 E1 85 91 D6 24 26 38 49 86 07 7D FB 03 49	3/7/2019	3/3/2034
C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com SSL Intermediate CA ECC R2	1C D7 12 12 DE 15 10 D9 12 82 DA 33 10 4A 10 2F	948B7111AF42F546D579CFF5CE2BDEC82134DD9914842BDDDB0C52872EB604E39	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
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



Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com SSL Enterprise Intermediate CA RSA R1	7A 46 09 3E 23 7C BB A8 D0 21 CE 1C 70 AA F0 0C	EDAC9C45909F4DEC7BB65F0A4FBF6A8A0375E52AEDD66E06888FED7E3EDEC537	A0 A0 29 36 90 CB DA 1C EF 07 A7 EA 37 AC 9F 5B 16 DD A3 11 76 96 F9 D5 64 BC 36 E1 CF 4C 35 65	3/26/2019	3/22/2034
C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com EV SSL Intermediate CA RSA R3	03 A3 F4 D0 60 30 52 A3 37 CE 38 0A 88 30 31 8C	85DB0BEED0668D04D7074000F98E84B08D0FD5429FF4A262DE7CBC1528A1A1DA	E1 5E 8A 26 FD 3D 8F 8C 02 4D D0 75 90 6F 3E AD F3 3B 5C 21 31 60 4A 62 5C 21 B3 24 D2 F9 F0 84	3/26/2019	3/22/2034
C=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
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



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



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 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
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



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	D7C0EF80A3DAC4DA5C7E953C62555966959DCA93122F22728850BEAAF1741AF	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 OD 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

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	554E3AE314AFF264D3FDE7F2BBC818F2E734D94B336208EDEF7C37B162B6A96	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



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SSL.COM MANAGEMENT'S ASSERTION

SSL Corp d/b/a SSL.com ("SSL.com") operates the Certification Authority ("CA") services for the root and other CAs included 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, throughout the period July 1, 2019 to June 30, 2020, 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 enumerated in [Attachment A](#), including its commitment to provide SSL certificates in conformity with the CA/Browser Forum Requirements in 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

based on the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.4.1](#).

A handwritten signature in black ink that reads "Leo Grove". The signature is written over a horizontal line.

Leo Grove
Chief Executive Officer
September 24, 2020

ATTACHMENT A - CERTIFICATION PRACTICE STATEMENT AND CERTIFICATE POLICY VERSIONS IN-SCOPE

Policy Name	Policy Version	Policy Date
SSL.com Certificate Policy and Certification Practice Statement	Version 1.9	May 29, 2020
SSL.com Certificate Policy and Certification Practice Statement	Version 1.8	October 16, 2019
SSL.com Certificate Policy and Certification Practice Statement	Version 1.7	September 20, 2019
SSL.com Certificate Policy and Certification Practice Statement	Version 1.6	May 20, 2019



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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

Root CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=US, ST=Texas, L=Houston, O=Cyberdata LLC, CN=ecossl.com Root Certification Authority ECC R1	10 88 83 2D 3F FF E9 00	024F53114851ADB33EACC0F07C75CFE66E95BD6360627272E062FD26683A5E6C	56 D0 A4 CA 61 E3 9D E9 F3 69 94 08 B5 CA 98 4D 91 57 49 F7 80 D2 BE 20 42 18 6E 62 EE A0 1D 66	5/31/2017	5/30/2042
C=US, ST=Texas, L=Houston, O=Cyberdata LLC, CN=ecossl.com Root Certification Authority RSA R1	45 CA BA 64 C1 8F 49 BE	D72FD588F611A247E440A72A5B7D0772E8F846E456E64FCFFD44BEAF14DFC2D9	16 95 ED 67 97 52 FA 53 8B 1D CA 21 DD C5 12 BD 39 D8 76 92 C0 66 37 34 C2 9B 6F 7B 48 56 46 38	5/31/2017	5/30/2042
C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com Root Certification Authority ECC	75 E6 DF CB C1 68 5B A8	3417BB06CC6007DA1B961C920B8AB4CE3FAD820E4AA30B9ACBC4A74EBDCEBC65	A3 20 F4 D5 34 D7 BE 97 C1 AE 8D D0 49 97 35 BC 89 5C 32 3A DD 2D 38 8B FC CF 66 2C 23 D7 F9 9A	2/12/2016	2/12/2041
C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com Root Certification Authority ECC R2	21 E2 5B 95 AD 24 99 74	FECF02BC40C1C8846478D022789CB8BE031B4BB7CE477B712CAE6BE06DC8A452	E2 97 29 01 3B 7B 50 4C 48 5C EE 0F C6 32 41 37 C6 F8 BA 17 3D 39 A9 77 29 30 BE 96 56 47 65 08	5/31/2017	5/30/2042
C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority ECC	2C 29 9C 5B 16 ED 05 95	22A2C1F7BDED704CC1E701B5F408C310880FE956B5DE2A4A44F99C873A25A7C8	34 87 67 CD AD 3B DD 28 B2 B8 DD 53 51 AE C3 0C 68 CE C5 CD 69 D2 76 DF 38 27 DB C4 F5 80 64 64	2/12/2016	2/12/2041
C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority ECC R2	1E A0 54 BB 00 4F 1E F2	5D6DE7323F82EC96A1DC3ACEADF2685696EDC2431DB271C4C917FCE1CDB50299	95 62 FE 00 5C CA AA 06 BE 27 52 F8 45 E3 B3 48 57 F9 50 CA BE 5A C1 50 F9 53 81 F2 A8 06 30 F3	5/31/2017	5/30/2042

Root CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority RSA R2	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
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

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	46082EB4EB787B24FC84C0229995E3ABFD16733489D56606CC393409E4E231B	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
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

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 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	948B7111AF42F546D579CFF5CE2BDEC82134DD9914842BDDBOC52872EB604E39	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
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

Intermediate CAs					
Subject	Serial Number	SHA256 Thumbprint	SPKI SHA256	Valid From	Valid To
C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com SSL Enterprise Intermediate CA RSA R1	7A 46 09 3E 23 7C BB A8 D0 21 CE 1C 70 AA F0 0C	EDAC9C45909F4DEC7BB65F0A4FBF6A8A0375E52AEDD66E06888FED7E3EDEC537	A0 A0 29 36 90 CB DA 1C EF 07 A7 EA 37 AC 9F 5B 16 DD A3 11 76 96 F9 D5 64 BC 36 E1 CF 4C 35 65	3/26/2019	3/22/2034
C=US, ST=Texas, L=Houston, O=SSL Corp, CN=SSL.com EV SSL Intermediate CA RSA R3	03 A3 F4 D0 60 30 52 A3 37 CE 38 0A 88 30 31 8C	85DB0BEED0668D04D7074000F98E84B08D0FD5429FF4A262DE7CBC1528A1A1DA	E1 5E 8A 26 FD 3D 8F 8C 02 4D D0 75 90 6F 3E AD F3 3B 5C 21 31 60 4A 62 5C 21 B3 24 D2 F9 F0 84	3/26/2019	3/22/2034
C=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
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

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

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 = 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

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
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

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 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
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

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 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
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

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 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
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

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	554E3AE314AFF264D3FDE7F2BBC818F2E734D94B336208EDEF7C37B162B6A96	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