

INDEPENDENT ASSURANCE REPORT

To the management of eMudhra Technologies Limited (“emSign PKI”):

Scope

We have been engaged, in a reasonable assurance engagement, to report on emSign PKI management’s assertion that for its Certification Authority (CA) operations at Bangalore and Chennai, India and at Utah and New Jersey, United States throughout the period 1 June 2024 to 31 May 2025 for its CAs as enumerated in [Appendix A\(i\)](#), emSign PKI has:

- disclosed its SSL certificate lifecycle management business practices in applicable versions of its Certification Practice Statements as enumerated in [Appendix B](#), including its commitment to provide SSL certificates in conformity with the CA/Browser Forum Requirements on the emSign PKI’s website, 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 (for the registration activities performed by emSign PKI)
- maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorised individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorised and performed to maintain CA systems integrity

in accordance with the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline v2.8](#).

The CAs enumerated in [Appendix A\(ii\)](#) did not issue any SSL certificate for the audit period.

Certification authority’s responsibilities

emSign PKI’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 v2.8.



Our independence and quality management

We have complied with the independence and other ethical requirements of the *Code of Ethics for Professional Accountants* issued by the International Ethics Standards Board for Accountants, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

The firm applies International Standard on Quality Management (ISQM) 1, *Quality Management for Firms that Perform Audits or Reviews of Financial Statements, or Other Assurance or Related Services Engagements* and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Practitioner's responsibilities

Our responsibility is to express an opinion on management's assertion based on our procedures. We conducted our procedures in accordance with International Standard on Assurance Engagements 3000, *Assurance Engagements Other than Audits or Reviews of Historical Financial Information*, issued by the International Auditing and Assurance Standards Board. This standard requires that we plan and perform our procedures to obtain reasonable assurance about whether, in all material respects, management's assertion is fairly stated, and, accordingly, included:

- (1) obtaining and understanding of emSign PKI's SSL certificate lifecycle management business practices, including its relevant controls over the issuance, renewal, and revocation of SSL certificates;
- (2) selectively testing transactions executed in accordance with disclosed SSL certificate lifecycle management practices;
- (3) testing and evaluating the operating effectiveness of the controls; and
- (4) performing such other procedures as we considered necessary in the circumstances.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

The relative effectiveness and significance of specific controls at emSign PKI and their effect on assessments of control risk for subscribers and relying parties are dependent on their interaction with the controls, and other factors present at individual subscriber and relying party locations. We have performed no procedures to evaluate the effectiveness of controls at individual subscriber and relying party locations.



Inherent limitations

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 unauthorised 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.

Opinion

In our opinion, throughout the period 1 June 2024 to 31 May 2025, emSign PKI management's assertion, as referred to above is fairly stated, in all material respects, in accordance with the WebTrust Principles and Criteria for Certification Authorities - SSL Baseline v2.8.

This report does not include any representation as to the quality of emSign PKI's services beyond those covered by the WebTrust Principles and Criteria for Certification Authorities - SSL Baseline v2.8, nor the suitability of any of emSign PKI's services for any customer's intended purpose.

Use of the WebTrust seal

emSign PKI's use of the WebTrust for Certification Authorities - SSL Baseline 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.

A handwritten signature in black ink that reads 'BDO Consulting Sdn Bhd'.

BDO Consulting Sdn. Bhd.

Kuala Lumpur, Malaysia

19 August 2025



Appendix A(i):

List of SSL Root and Subordinate CAs in Scope:

No.	Common Name	Certificate Serial No.	SHA-256 Fingerprint
1	emSign Root CA - G1	31F5E4620C6C58EDD6D8	40F6AF0346A99AA1CD1D5 55A4E9CCE62C7F9634603 EE406615833DC8C8D0036 7
2	emSign SSL CA - G1	217AD58B1C713C002091	47B2EFBC3670E7DB4B41F 22C51FC02EE84FB2DBF30 82A49F2C2688122E9210A 1
3	emSign EV SSL CA - G1	626CB92B237FF82E3F50	4334EEB2CC114F82BEE6F 8A7E5AEA03A42EB2E1F70 CBD66102E414D72F0033B 9
4	emSign Root TLS CA - G1	00F7AB65559E10812DF64 84347586A25	9B913476EAB476E21E0887 DBCDE44345D1359D28116 B83B7CD3E87BD807EBF68
5	emSign ECC Root CA - G3	3CF607A968700EDA8B84	86A1ECBA089C4A8D3BBE2 734C612BA341D813E043C F9E8A862CD5C57A36BBE6 B
6	emSign ECC SSL CA - G3	72DDC7E9DCE9B0DCFFC7	6B51D1DCF4EB7AEE42418 5CB1B9580574B39CB9638 63DE3EC1AD31DDB076CE9 F
7	emSign ECC EV SSL CA - G3	01FE3E6C68DEBBEC263E	0116F17F97CDEF4ADE2E6 3CF2C1B064FD99F404D2B 914100BC241F0781853323
8	emSign Root TLS CA - G3	00961A3EFB1359576ED04 005B4684A5B	3094025792039A68AF6E55 3686410BDAB7C0D4A36B9 084CBA64202E35D6EBBDD
9	emSign Root CA - C1	00AECF00BAC4CF32F843B 2	125609AA301DA0A249B97 A8239CB6A34216F44DCAC 9F3954B14292F2E8C8608F
10	emSign SSL CA - C1	0086766B7F96DF60C46F8 B	F91AACAOE4E533747A088 0BF6CF6F26720DC1D05494 C3938DA6802290D5A09B3 2
11	emSign EV SSL CA - C1	00BADFD29B3F1E678C696 0	F6F159286A1401DE5397E2 1A0090534A85F5E7B9F98F D4A5A47B1DFFD4BFDED4
12	emSign ECC Root CA - C3	7B71B68256B8127C9CA8	BC4D809B15189D78DB3E1 D8CF4F9726A795DA1643C A5F1358E1DDB0EDC0D7EB 3
13	emSign ECC SSL CA - C3	5B7D9BB1FD33B9BC1D84	A061D445399714C38FC10 1A6E9AFBDB381F112FA5D E7D5BC14904558D1ED327 6

No.	Common Name	Certificate Serial No.	SHA-256 Fingerprint
14	emSign ECC EV SSL CA - C3	1B50581F7334B30B2723	COA578F2109E6F42D3D93 9948DEEAB729B20F7B23B 4237ABD8494DF554CF985 C
15	emSign Root TLS CA - G1	02A27D4E346AEF4E4F046 78B5BB6D9EE	CEF71E70B7C29ADDF6C30 CD19E614B38FD5F02A435 A0EEDDD0087E183D101A5 1
16	emSign TLS CA - G1	437E0DB6D4E846134D00A D35463A7D	DE029E40F6BB851DA4B80 4C65121D8535084FDF6B3 B47DDF7E94B4E46A6C343 7
17	EM DV TLS CA - G2A-1	00B6391A6D28C7886AE6F CCED2F3C1A7	3F13597D3355D341BD093 28AEE567D7F4E002D9919 B986F9962DAFF197EA75D 1
18	EM DV TLS CA - G2B	00F0A030825E22BB2E1D8 8E3889DC073	829EC444B8BE3DFD2D030 A0D9E7A1D0DD2A3C2C325 D39589C27AC9A065BAE79 3
19	EM DV TLS CA - G2C	00AB5DEA38BDC920D5FA4 736DA54BEBE	0427EA3CB4A7B4CB205E7 7A7B166D332BEDB8E8EF4 69BC5E883169C8D0AC876 D
20	EM OV TLS CA - G2A-1	59491409E797EA968F05E0 FF331FEC	291804EC866837CD5AF5F 4D652F1DCC79BEC622D4F 9BF4870E5E4D8639DF3AD 4
21	EM OV TLS CA - G2B	00C164DB9804F563241ED 32C4100A566	6A7A93861982B664001710 A0EFD04C8A72F6A23E252 B280911797E0BF1BD9012
22	EM OV TLS CA - G2C	00CBDCFA0D64112709CF1 4B7E4858250	DE767792E870BD32F3310 29FC89DC24C53F9DF970D C70F1EA30CF29DB3F94BA 9
23	EM EV TLS CA - G2A-1	35ACF2A0E598C8E849D5E E7E724C82	684B11E56AB72502B75DA CA1CD009E3DD4BEAB3AC 1FE448902D272766CCA79 7E
24	EM EV TLS CA - G2B	008F06A3F1D6A2FC71D29 393C71CD48E	E072B30D7F5B8BCF0080E 51D6CC7765767072DB231 9E9BB1CD3D02A08689875 0
25	EM EV TLS CA - G2C	00B28103309375C0CBB9E 9B80B66C430	C3BC2B480FB1A1AB4D0BA 1ED6C7B53E09644704573 3620991A32D6798D77AA2 0
26	emSign Root TLS CA - G3	0E760672F143459FC8FE0A B0BC05E394	7DD78D5F4F13459A83DFF 9ABBBA62EDBAF6F2D102B F257FD712F4D9F2746ED8 D

No.	Common Name	Certificate Serial No.	SHA-256 Fingerprint
27	emSign TLS CA - G3	3B6ECEC869F677EFF33445C0E3EDC5	04E6DEA261B8720E0525E9DA23282100352BDEBC119CFC3DBD812C3D68A2BCDD
28	EM DV TLS CA - G3A-1	00A3E5AD9D0C0374A342E5E2A3F506DD	4896D51F6537A5326272C412BC75990E15D4F5ECDC2946C19776923B8E169E93
29	EM DV TLS CA - G3B	00A4AEE678F23362B4C0E460B772F214	42C4ACCD12C4F59597925E1A08A7A90102608543809308D50EC427E118BA1493
30	EM DV TLS CA - G3C	588B2E3C2BB8CDA13E1A1209254321	0164D7CEAE5BB909C272AF151FF44B1177AE9B47D9424B94F1D9558C30934D19
31	EM OV TLS CA - G3A-1	00C5FB5F2D43071F5B5623B5D132878C	259FF0963A0665BF40D92E05E95B960CCB423DBD117482AE647BC7FD5F5CE644
32	EM OV TLS CA - G3B	6CADA367FB1C100088120EA202D568	98B896625C0C230ADEEC3EB2CF6AAD5001ECF9156A68644E82374CE5833BC25B
33	EM OV TLS CA - G3C	296926C227A3A1526392B19482A504	CB6E15165AC802E9B3F993F16C25D41F4E81C21EBDE71AE1B012AC00BF9C7C3F
34	EM EV TLS CA - G3A-1	00B28971D9989A629CA9B4E206067211	BA0A3DA706F47DAC1A9C33C4EE1E4D86B726EF48E70D4319F3C949EC673A1975
35	EM EV TLS CA - G3B	00C7C41EFE92D825F05EA841A4A82C1	E7568FE6E12331F4FD7DE61DA4C7559D0F8EB192A218D4741A3BA75184333838
36	EM EV TLS CA - G3C	008009928A64107601AF05FA2F19F109	432EC25F0D28DE9006D97BF752F17BBB2CD41F669933FCB072D9A1148D0261F3

List of Cross signed CAs:

No.	Common Name	Certificate Serial No.	SHA-256 Fingerprint
1	EM DV TLS CA - G2A-1	45D2438F4CAE023D3D78A052A5A9DB94	122A5433D8A2A8C501D5E680AB216885A6019326A189DF91E8895F8B5AD488DD
2	EM DV TLS CA - G2B	6D3091E911E878BA6E196CC2A186FF01	5F0D6380B345D409C641D089B081D7B43B365FD413994403301671C3CBC6A3E5

No.	Common Name	Certificate Serial No.	SHA-256 Fingerprint
3	EM DV TLS CA - G2C	00DF5AD8718C74A3CFEE8 0D5B5FB94AE03	8FE4701D088C2250317BB 3A77EDC1707E38E1112E8 A334F615CFA9D46F175B0 4
4	EM DV TLS CA - G3A-1	00FBF771754D6A8760263 B3E115432593F	ECB8D30846BEF4B340C90 152659F452FD81A7A4F41 429B890F1E2B3467058565
5	EM DV TLS CA - G3B	00A024FDF4BA665C785CE 4A020483858B7	45A883F349AEDFD5F3A64 9B5498FFB121712BA8B44 8F3F2A91DBC5A766FCDD E
6	EM DV TLS CA - G3C	0091F347F1A5B7D39962B 95E0EE4E299D1	62B7F9868263F72F6911FC 78CEAF72C1979158B7368 BF648683BB2AA39B02E72
7	EM EV TLS CA - G2A-1	46057D09344E92BB7064D 4C7219F3C2D	A57FACB931C9A20376E6F E212F7234EFF7B8811436A 421BEFF26F5DEA9BCC4F1 43785B01437218B8D57C2
8	EM EV TLS CA - G2B	00E84B4F5D5B7BEDF7C77 0DAA72EE04732	A5B5979976ECAFO6B35A7 10A5CA4BB3C0C1BA65A07 8
9	EM EV TLS CA - G2C	00EDE78290C6A3193FCEA 950E66DF34D20	0307BC756AAEA5398BF3B 47D433D2BCB83470F7FEA 640753877ADEFD910E8BF 3
10	EM EV TLS CA - G3A-1	00AABA43C0D684BA96FE1 4CE7397A4EE35	D62657961AC9C5A9A5225 49E34CADE585ECBFD3869 A780C97EDF52E0EC90CEF C
11	EM EV TLS CA - G3B	00D8F8685E4F2BD9D8240 2A85A1C1EB731	579480AEA166290BD3C64 3589E795FC0D0E54E8650 5D180F1DFF99EFD319951 2
12	EM EV TLS CA - G3C	05F078752DECE7A1BB859 5D303167171	FD9D5C2DBBD4995AB69B8 D50C439D9527B00529199 C2FD01B2174EB58F07021 F
13	EM OV TLS CA - G2A-1	49CA1A0221C19698975E1 EC6F4EDA4D1	E0DA30FF7384B9873EDE9 FB2DBA7F1353C7E60ED59 BB9A43779F9E8494A47BA C
14	EM OV TLS CA - G2B	2923D7603B9D92DEDD547 33C594811DA	121C42490FECA63B63E7D 068046CC4C5FC58436BF7 1C97283746F37A9DD6779 9
15	EM OV TLS CA - G2C	119AF942CF007231271F37 B0CDAE9928	ED82135F7D946673F8298 BF758DC830BAD20FB37F5 BB9EAC52B236563FEC931 E

No.	Common Name	Certificate Serial No.	SHA-256 Fingerprint
16	EM OV TLS CA - G3A-1	00ADA1791F3D515E1A408 0D208AE888A01	1159D471B5746802C2F2C B2FFFE6D5C332B9319BD5 2ACEBFA93AEC07544E7C5 D
17	EM OV TLS CA - G3B	00E94223BDE92F914E5AB 9ACABFDAC3710	5F1DED4DD590AF7463129 0CF073B122A2AAC6A1FA4 79778A0BD43579BD83269 9
18	EM OV TLS CA - G3C	008D5A4811939EF447D77 111CDD9849AE9	7485B51C0ED192878FA1D 2F948FB529AE1842CC508 6C4B67F7BE5B2039DE948 9

Appendix A(ii):

List of Subordinate CAs in Scope:

No.	Common Name	Certificate Serial No.	SHA-256 Fingerprint
1	emSign Class 1 CA - G1	00D59B7C9B36A2D44922E A	CF6D0333D0BE2C69A42D4 53960DEE9E109D9E8843E A3061A1671D6EAF85EB7D 8
2	emSign Class 2 CA - G1	3C5BDA55C0A236A744CD	63A8369DC824A42BC7AE6 EE5D26AAFD32DF4AF677C A18B941B7A57E33B1E355 9
3	emSign Class 3 CA - G1	00A08870825A326BED961 1	42DA1C562F80E46DA7A32 1244EFC23D0FAA9FEBBB7 AA0377D96B42D9E88AB20 0
4	emSign Device CA - G1	0465835247364A904A8E	4C9198B673550858799AD 2744CC083C1BA0027E77D 3B8FD6D56CF53620D099E 2
5	emSign ECC Class 1 CA - G3	00FB1E21982EB1B55C592 5	ABA6A65DCE8955BAF0685 AB88809B7699C174496EF 9EE991533251494F43CE10
6	emSign ECC Class 2 CA - G3	23E1BA02DFF3E900EDDD	4E9B731567177E1776A96 D66D9120B3DEB28B80093 7EA4662565B3EF5EC8000 B
7	emSign ECC Class 3 CA - G3	00B8EB258324DB08ACC2F 5	7066A0F42F530E0DB5AFE E72A3B04DE614E7D2305C 67D12C756BB215E37CB97 5
8	emSign ECC Device CA - G3	00876282A8FD758C391EC 3	70B9BA595412CF8614B76 747FD683CCA2759F42642 164834FBEFDD88505C4F1 C
9	emSign Class 1 CA - C1	7E065336C075C7998B63	0EF7B863FAABC384A694F F632DAAF9BD31CED23E92 46559A59ECD7472754CCE 6

No.	Common Name	Certificate Serial No.	SHA-256 Fingerprint
10	emSign Class 2 CA - C1	1A5C82DEDCBC6A153030	05B30B3FC44F8575334BD 812EF9FA8A52A75743E19 BC35A5BE3912ECA62C466 9
11	emSign Class 3 CA - C1	00B474F64D86392189496E	69B0DD09B98F36A9CC7BD 7FFE8A00DCD319A5FC947 C9C8AF72C92894D8E8109 2
12	emSign Device CA - C1	00B19BE3081E2D97B5BFC B	D034B18751BEE10AAAF94 C2F14350D3F654E5B934D 0DDA592B31E58187A4895 2
13	emSign ECC Class 1 CA - C3	00BD6A0796AB3F8955521 E	FAD2E98649F1C606150F5 5269EBC035AEA22FFAC13 1DE64BA6900C75D8447B7 E
14	emSign ECC Class 2 CA - C3	00D1142766698BFCDEDA0 2	DB4591F878F6672F5B7073 3A66AD7C9537B97E6F0AF 5CA49AAB8ECB2CE02F86B
15	emSign ECC Class 3 CA - C3	3D12A1CF78258D580854	5A9A03F2D3FE589BE63CD A11820A9F25F074C92034 F51C047D34226D252EC02 5
16	emSign ECC Device CA - C3	00D9365F15842A1D0689C 3	3D4511D0A80AA949A6D99 B253A173471797C4459187 A6329E736C37CB5493E46

Appendix B - Certification Practice Statements in Scope

Certification Practice Statement	Begin Effective Date	End Effective Date
Version 1.14	30 August 2023	16 June 2024
Version 1.15	17 June 2024	4 September 2024
Version 1.16	5 September 2024	29 November 2024
Version 1.17	30 November 2024	13 March 2025
Version 1.18	14 March 2025	5 June 2025
Version 1.19	6 June 2025	7 July 2025
Version 1.20	8 July 2025	-

EMSIGN PKI'S MANAGEMENT ASSERTION

eMudhra Technologies Limited (“emSign PKI”) operates the Certification Authority (CA) services known as enumerated in [Appendix A\(i\)](#) and provides SSL CA services.

The management of emSign PKI is responsible for establishing and maintaining effective controls over its SSL CA operations, including its SSL CA business practices disclosure on its [repository](#), SSL key lifecycle management controls, and SSL certificate lifecycle management controls. These controls contain monitoring mechanisms, and actions are taken to correct deficiencies identified.

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

emSign PKI 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 at Bangalore and Chennai, India and at Utah and New Jersey, United States, throughout the period 01 June 2024 to 31 May 2025, emSign PKI has:

- Disclosed its SSL certificate lifecycle management business practices in applicable versions of its Certification Practice Statements as enumerated in [Appendix B](#), including its commitment to provide SSL certificates in conformity with the CA/Browser Forum Requirements on the emSign PKI website, 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 (for the registration activities performed by emSign PKI);
- Maintained effected controls to provide reasonable assurance that:
 - Logical and physical access to CA systems and data is restricted to authorized individuals;
 - The continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity

in accordance with the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline v2.8](#).

The CAs enumerated in [Appendix A\(ii\)](#) are not used for SSL certificate services although technically capable of such issuance. The management has put in place internal controls to prevent SSL issuance under these CAs.

Venu Madhava

Signed by Venu Madhava
Date: 2025.08.15
17:05:20

Venu Madhava,
Executive Vice President- Legal, HR and GRC.
15 August 2025.

Appendix A(i) - List of Root and Subordinate CAs in Scope

No.	Common Name	Certificate Serial No.	SHA-256 Fingerprint
1	emSign Root CA - G1	31F5E4620C6C58EDD6D8	40F6AF0346A99AA1CD1D555A4E9CCE62C7F9634603EE406615833DC8C8D00367
2	emSign SSL CA - G1	217AD58B1C713C002091	47B2EFBC3670E7DB4B41F22C51FC02EE84FB2DBF3082A49F2C2688122E9210A1
3	emSign Root TLS CA - G1	00F7AB65559E10812DF6484347586A25	9B913476EAB476E21E0887DBCDE44345D1359D28116B83B7CD3E87BD807EBF68
4	emSign EV SSL CA - G1	626CB92B237FF82E3F50	4334EEB2CC114F82BEE6F8A7E5AEA03A42EB2E1F70CBD66102E414D72F0033B9
5	emSign ECC Root CA - G3	3CF607A968700EDA8B84	86A1ECBA089C4A8D3BBE2734C612BA341D813E043CF9E8A862CD5C57A36BBE6B
6	emSign ECC SSL CA - G3	72DDC7E9DCE9B0DCFFC7	6B51D1DCF4EB7AEE424185CB1B9580574B39CB963863DE3EC1AD31DDB076CE9F
7	emSign Root TLS CA - G3	00961A3EFB1359576ED04005B4684A5B	3094025792039A68AF6E553686410BDAB7COD4A36B9084CBA64202E35D6EBBDD
8	emSign ECC EV SSL CA - G3	01FE3E6C68DEBBEC263E	0116F17F97CDEF4ADE2E63CF2C1B064FD99F404D2B914100BC241F0781853323
9	emSign Root CA - C1	00AECF00BAC4CF32F843B2	125609AA301DA0A249B97A8239CB6A34216F44DCAC9F3954B14292F2E8C8608F
10	emSign SSL CA - C1	0086766B7F96DF60C46F8B	F91AACAOE4E533747A0880BFC6F626720DC1D05494C3938DA6802290D5A09B32
11	emSign EV SSL CA - C1	00BADFD29B3F1E678C6960	F6F159286A1401DE5397E21A0090534A85F5E7B9F98FD4A5A47B1DFFD4BFDED4
12	emSign ECC Root CA - C3	7B71B68256B8127C9CA8	BC4D809B15189D78DB3E1D8CF4F9726A795DA1643CA5F1358E1DDB0EDCOD7EB3
13	emSign ECC SSL CA - C3	5B7D9BB1FD33B9BC1D84	A061D445399714C38FC101A6E9AFBDB381F112FA5DE7D5BC14904558D1ED3276
14	emSign ECC EV SSL CA - C3	1B50581F7334B30B2723	COA578F2109E6F42D3D939948DEEAB729B20F7B23B4237ABD8494DF554CF985C
15	emSign Root TLS CA - G1	02A27D4E346AEF4E4F04678B5BB6D9EE	CEF71E70B7C29ADDF6C30CD19E614B38FD5F02A435A0EEDDD0087E183D101A51
16	emSign TLS CA - G1	437E0DB6D4E846134D00AD35463A7D	DE029E40F6BB851DA4B804C65121D8535084FDF6B3B47DDF7E94B4E46A6C3437
17	EM DV TLS CA - G2A-1	00B6391A6D28C7886AE6FCCED2F3C1A7	3F13597D3355D341BD09328AEE567D7F4E002D9919B986F9962DAFF197EA75D1
18	EM DV TLS CA - G2B	00F0A030825E22BB2E1D88E3889DC073	829EC444B8BE3DFD2D030A0D9E7A1D0DD2A3C2C325D39589C27AC9A065BAE793
19	EM DV TLS CA - G2C	00AB5DEA38BDC920D5FA4736DA54BEBE	0427EA3CB4A7B4CB205E77A7B166D332BEDB8E8EF469BC5E883169C8D0AC876D
20	EM OV TLS CA - G2A-1	59491409E797EA968F05E0FF331FEC	291804EC866837CD5AF5F4D652F1DCC79BEC622D4F9BF4870E5E4D8639DF3AD4
21	EM OV TLS CA - G2B	00C164DB9804F563241ED32C4100A566	6A7A93861982B664001710A0EFD04C8A72F6A23E252B280911797E0BF1BD9012
22	EM OV TLS CA - G2C	00CBDCFA0D64112709CF14B7E4858250	DE767792E870BD32F331029FC89DC24C53F9DF970DC70F1EA30CF29DB3F94BA9
23	EM EV TLS CA - G2A-1	35ACF2A0E598C8E849D5EE7E724C82	684B11E56AB72502B75DACA1CD009E3DD4BEAB3AC1FE448902D272766CCA797E
24	EM EV TLS CA - G2B	008F06A3F1D6A2FC71D29393C71CD48E	E072B30D7F5B8BCF0080E51D6CC7765767072DB2319E9BB1CD3D02A086898750
25	EM EV TLS CA - G2C	00B28103309375C0CBB9E9B80B66C430	C3BC2B480FB1A1AB4D0BA1ED6C7B53E096447045733620991A32D6798D77AA20
26	emSign Root TLS CA - G3	0E760672F143459FC8FE0AB0BC05E394	7DD78D5F4F13459A83DFF9ABBB6A2EDBAF6F2D102BF257FD712F4D9F2746ED8D

No.	Common Name	Certificate Serial No.	SHA-256 Fingerprint
27	emSign TLS CA - G3	3B6ECEC869F677EFF33445C0E3EDC5	04E6DEA261B8720E0525E9DA23282100352BDEBC119CFC3DBD812C3D68A2BCDD
28	EM DV TLS CA - G3A-1	00A3E5AD9D0C0374A342E5E2A3F506DD	4896D51F6537A5326272C412BC75990E15D4F5E CDC2946C19776923B8E169E93
29	EM DV TLS CA - G3B	00A4AEE678F23362B4C0E460B772F214	42C4ACCD12C4F59597925E1A08A7A90102608543809308D50EC427E118BA1493
30	EM DV TLS CA - G3C	588B2E3C2BB8CDA13E1A1209254321	0164D7CEAE5BB909C272AF151FF44B1177AE9B47D9424B94F1D9558C30934D19
31	EM OV TLS CA - G3A-1	00C5FB5F2D43071F5B5623B5D132878C	259FF0963A0665BF40D92E05E95B960CCB423DBD117482AE647BC7FD5F5CE644
32	EM OV TLS CA - G3B	6CADA367FB1C100088120EA202D568	98B896625C0C230ADEEC3EB2CF6AAD5001ECF9156A68644E82374CE5833BC25B
33	EM OV TLS CA - G3C	296926C227A3A1526392B19482A504	CB6E15165AC802E9B3F993F16C25D41F4E81C21EBDE71AE1B012AC00BF9C7C3F
34	EM EV TLS CA - G3A-1	00B28971D9989A629CA9B4E206067211	BA0A3DA706F47DAC1A9C33C4EE1E4D86B726EF48E70D4319F3C949EC673A1975
35	EM EV TLS CA - G3B	00C7C41EFE92D825F05EAE841A4A82C1	E7568FE6E12331F4FD7DE61DA4C7559D0F8EB192A218D4741A3BA75184333838
36	EM EV TLS CA - G3C	008009928A64107601AF05FA2F19F109	432EC25F0D28DE9006D97BF752F17BBB2CD41F669933FCB072D9A1148D0261F3

List of Cross signed CA:

No.	Common Name	Certificate Serial No.	SHA-256 Fingerprint
1	EM DV TLS CA - G2A-1	45D2438F4CAE023D3D78A052A5A9DB94	122A5433D8A2A8C501D5E680AB216885A6019326A189DF91E8895F8B5AD488DD
2	EM DV TLS CA - G2B	6D3091E911E878BA6E196CC2A186FF01	5F0D6380B345D409C641D089B081D7B43B365FD413994403301671C3CBC6A3E5
3	EM DV TLS CA - G2C	00DF5AD8718C74A3CFEE80D5B5FB94AE03	8FE4701D088C2250317BB3A77EDC1707E38E1112E8A334F615CFA9D46F175B04
4	EM DV TLS CA - G3A-1	00FBF771754D6A8760263B3E115432593F	ECB8D30846BEF4B340C90152659F452FD81A7A4F41429B890F1E2B3467058565
5	EM DV TLS CA - G3B	00A024FDF4BA665C785CE4A020483858B7	45A883F349AEDFD5F3A649B5498FFB121712BA8B448F3F2A91DBC5A766FCDDBE
6	EM DV TLS CA - G3C	0091F347F1A5B7D39962B95E0EE4E299D1	62B7F9868263F72F6911FC78CEAF72C1979158B7368BF648683BB2AA39B02E72
7	EM EV TLS CA - G2A-1	46057D09344E92BB7064D4C7219F3C2D	A57FACB931C9A20376E6FE212F7234EFF7B8811436A421BEFF26F5DEA9BCC4F1
8	EM EV TLS CA - G2B	00E84B4F5D5B7BEDF7C770DAA72EE04732	43785B01437218B8D57C2A5B5979976ECAF06B35A710A5CA4BB3C0C1BA65A078
9	EM EV TLS CA - G2C	00EDE78290C6A3193FCEA950E66DF34D20	0307BC756AAEA5398BF3B47D433D2BCB83470F7FEA640753877ADEFD910E8BF3
10	EM EV TLS CA - G3A-1	00AABA43C0D684BA96FE14CE7397A4EE35	D62657961AC9C5A9A522549E34CADE585ECBFD3869A780C97EDF52E0EC90CEFC
11	EM EV TLS CA - G3B	00D8F8685E4F2BD9D82402A85A1C1EB731	579480AEA166290BD3C643589E795FC0D0E54E86505D180F1DFF99EFD3199512
12	EM EV TLS CA - G3C	05F078752DECE7A1BB8595D303167171	FD9D5C2DBBD4995AB69B8D50C439D9527B00529199C2FD01B2174EB58F07021F
13	EM OV TLS CA - G2A-1	49CA1A0221C19698975E1EC6F4EDA4D1	E0DA30FF7384B9873EDE9FB2DBA7F1353C7E60E D59BB9A43779F9E849A47BAC
14	EM OV TLS CA - G2B	2923D7603B9D92DED D54733C594811DA	121C42490FECA63B63E7D068046CC4C5FC58436BF71C97283746F37A9DD67799
15	EM OV TLS CA - G2C	119AF942CF007231271F37B0CDAE9928	ED82135F7D946673F8298BF758DC830BAD20FB37F5BB9EAC52B236563FEC931E

16	EM OV TLS CA - G3A-1	00ADA1791F3D515E1A4080D208AE888A01	1159D471B5746802C2F2CB2FFFE6D5C332B9319BD52ACEBFA93AEC07544E7C5D
17	EM OV TLS CA - G3B	00E94223BDE92F914E5AB9ACABFDAC3710	5F1DED4DD590AF74631290CF073B122A2AAC6A1FA479778A0BD43579BD832699
18	EM OV TLS CA - G3C	008D5A4811939EF447D77111CDD9849AE9	7485B51C0ED192878FA1D2F948FB529AE1842CC5086C4B67F7BE5B2039DE9489

Appendix A(ii) - List of Subordinate CAs in Scope

N o.	Common Name	Certificate Serial No.	SHA-256 Fingerprint
1	emSign Class 1 CA - G1	00D59B7C9B36A2D44922EA	CF6D0333D0BE2C69A42D453960DEE9E109D9E8843EA3061A1671D6EAF85EB7D8
2	emSign Class 2 CA - G1	3C5BDA55C0A236A744CD	63A8369DC824A42BC7AE6EE5D26AAFD32DF4AF677CA18B941B7A57E33B1E3559
3	emSign Class 3 CA - G1	00A08870825A326BED9611	42DA1C562F80E46DA7A321244EFC23D0FAA9FEBBB7AA0377D96B42D9E88AB200
4	emSign Device CA - G1	0465835247364A904A8E	4C9198B673550858799AD2744CC083C1BA0027E77D3B8FD6D56CF53620D099E2
5	emSign ECC Class 1 CA - G3	00FB1E21982EB1B55C5925	ABA6A65DCE8955BAF0685AB88809B7699C174496EF9EE991533251494F43CE10
6	emSign ECC Class 2 CA - G3	23E1BA02DFF3E900EDDD	4E9B731567177E1776A96D66D9120B3DEB28B800937EA4662565B3EF5EC8000B
7	emSign ECC Class 3 CA - G3	00B8EB258324DB08ACC2F5	7066A0F42F530E0DB5AFEE72A3B04DE614E7D2305C67D12C756BB215E37CB975
8	emSign ECC Device CA - G3	00876282A8FD758C391EC3	70B9BA595412CF8614B76747FD683CCA2759F42642164834FBFDD88505C4F1C
9	emSign Class 1 CA - C1	7E065336C075C7998B63	0EF7B863FAABC384A694FF632DAAF9BD31CED23E9246559A59ECD7472754CCE6
10	emSign Class 2 CA - C1	1A5C82DEDCBC6A153030	05B30B3FC44F8575334BD812EF9FA8A52A75743E19BC35A5BE3912ECA62C4669
11	emSign Class 3 CA - C1	00B474F64D86392189496E	69B0DD09B98F36A9CC7BD7FFE8A00DCD319A5FC947C9C8AF72C92894D8E81092
12	emSign Device CA - C1	00B19BE3081E2D97B5BFCB	D034B18751BEE10AAAF94C2F14350D3F654E5B934D0DDA592B31E58187A48952
13	emSign ECC Class 1 CA - C3	00BD6A0796AB3F8955521E	FAD2E98649F1C606150F55269EBC035AEA22FFAC131DE64BA6900C75D8447B7E
14	emSign ECC Class 2 CA - C3	00D1142766698BFCEDA02	DB4591F878F6672F5B70733A66AD7C9537B97E6F0AF5CA49AAB8ECB2CE02F86B
15	emSign ECC Class 3 CA - C3	3D12A1CF78258D580854	5A9A03F2D3FE589BE63CDA11820A9F25F074C92034F51C047D34226D252EC025
16	emSign ECC Device CA - C3	00D9365F15842A1D0689C3	3D4511D0A80AA949A6D99B253A173471797C4459187A6329E736C37CB5493E46

Appendix B - Certification Practice Statements in Scope

Certification Practice Statement	Begin Effective Date	End Effective Date
Version 1.14	30 August 2023	16 June 2024
Version 1.15	17 June 2024	4 September 2024
Version 1.16	5 September 2024	29 November 2024
Version 1.17	30 November 2024	13 March 2025
Version 1.18	14 March 2025	5 June 2025
Version 1.19	6 June 2025	7 July 2025



Version 1.20	8 July 2025	-
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