

INDEPENDENT ASSURANCE REPORT

To the management of GlobalSign NV/SA ("GlobalSign"):

Scope

We have been engaged, in a reasonable assurance engagement, to report on GlobalSign management's assertion that for its Certification Authority (CA) operations at its locations as detailed in [Appendix C](#), throughout the period April 1, 2020 to March 31, 2021 for its CAs as enumerated in [Appendix B](#), GlobalSign has:

- ▶ Disclosed its SSL certificate lifecycle management business practices in the applicable versions of the Certificate Practice Statements and Certificate Policies, as stipulated in [Appendix A](#), including its commitment to provide SSL certificates in conformity with the CA/Browser Forum Requirements on the GlobalSign'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 GlobalSign)
- ▶ Maintained effective controls to provide reasonable assurance that:
 - Logical and physical access to CA systems and data is restricted to authorized individuals; and
 - 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 CAs as enumerated in [Appendix B](#)

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

in accordance with the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security, Version 2.5.](#)

Certification authority's responsibilities

GlobalSign'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, Version 2.5.](#)

Our independence and quality control

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

The firm applies International Standard on Quality Control 1, and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Auditor's responsibilities

Our responsibility is to express an opinion on management's assertion based on our procedures. We conducted our procedures in accordance with International Standard on Assurance Engagements 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 an understanding of GlobalSign's SSL certificate lifecycle management business practices, including its relevant controls over the issuance, renewal, and revocation of SSL certificates, and obtaining an understanding of GlobalSign's network and certificate system security to meet the requirements set forth by the CA/Browser Forum;
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.

GlobalSign's management has disclosed to us the attached comments ([Appendix D](#)) that have been posted publicly in the online forums of the Bugzilla site, as well as the online forums of individual internet browsers that comprise the CA/Browser Forum. We have considered the nature of these comments in determining the nature, timing and extent of our procedures.

Relative effectiveness of controls

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

Inherent limitations

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

Opinion

In our opinion, throughout the period April 1, 2020 to March 31, 2021, GlobalSign 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 with Network Security, Version 2.5](#).

This report does not include any representation as to the quality of GlobalSign's services beyond those covered by the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security, Version 2.5](#), nor the suitability of any of GlobalSign's services for any customer's intended purpose.

Use of the WebTrust seal

GlobalSign'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.

EY Bedrijfsrevisoren BV

Diegem, Belgium

Christel Weymeersch, Partner*

June 30, 2021

* Acting on behalf of a BV

Appendix A - Certification Practice Statements and Certificate Policies in Scope

Certification Practice Statement	Begin Effective Date	End Effective Date
Version 9.3	31-Mar-20	07-July-20
Version 9.4	07-July-20	30-Sept-20
Version 9.5	30-Sept-20	29-Dec-20
Version 9.6	29-Dec-20	30-Mar-21
Version 9.7	30-Mar-21	

Certificate Policy	Begin Effective Date	End Effective Date
Version 6.3	31-Mar-20	07-July-20
Version 6.4	07-July-20	30-Sept-20
Version 6.5	30-Sept-20	29-Dec-20
Version 6.6	29-Dec-20	30-Mar-21
Version 6.7	30-Mar-21	

Appendix B - In-Scope CAs

The following CAs were in scope for the SSL Baseline Requirements and Network Security Requirements:

Root CAs			
#	Subject	Fingerprint SHA-256	Additional information
1	CN = GlobalSign Root CA, OU = Root CA, O = GlobalSign nv-sa, C = BE	EBD41040E4BB3EC742C9E381D31EF2A41A48B6685C96E7CEF3C1DF6CD4331C99	
2	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	CBB522D7B7F127AD6A0113865BDF1CD4102E7D0759AF635A7CF4720DC963C53B	
3	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	179FBC148A3DD00FD24EA13458CC43BFA7F59C8182D783A513F6EBEC100C8924	
4	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	2CABEAFF37D06CA22ABA7391C0033D25982952C453647349763A3AB5AD6CCF69	
5	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	4FA3126D8D3A11D1C4855A4F807CBAD6CF919D3A5A88B03BEA2C6372D93C40C9	
6	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	CBB9C44D84B8043E1050EA31A69F514955D7BFD2E2C6B49301019AD61D9F5058	
7	CN = GlobalSign Secure Mail Root R45, O = GlobalSign nv-sa, C = BE	319AF0A7729E6F89269C131EA6A3A16FCD86389FDCAB3C47A4A675C161A3F974	
8	CN = GlobalSign Secure Mail Root E45, O = GlobalSign nv-sa, C = BE	5CBF6FB81FD417EA4128CD6F8172A3C9402094F74AB2ED3A06B4405D04F30B19	



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9	CN = GlobalSign Code Signing Root R45, O = GlobalSign nv-sa, C = BE	7B9D553E1C92CB6E8803E137F4F287D4363757F5D44B37D52F9FCA22FB97DF86	
10	CN = GlobalSign Code Signing Root E45, O = GlobalSign nv-sa, C = BE	26C6C5FD4928FD57A8A4C5724FDD279745869C60C338E262FFE901C31BD1DB2B	
11	CN = GlobalSign Document Signing Root R45, O = GlobalSign nv-sa, C = BE	38BE6C7EEB4547D82B9287F243AF32A9DEEB5DC5C9A87A0056F938D91B456A5A	
12	CN = GlobalSign Document Signing Root E45, O = GlobalSign nv-sa, C = BE	F86973BDD0514735E10C1190D0345BF89C77E1C4ADB3F65963B803FD3C9E1FF	
13	CN = GlobalSign Timestamping Root R45, O = GlobalSign nv-sa, C = BE	2BCBBFD66282C680491C8CD7735FDBBAB7A8079B127BEC60C535976834399AF7	
14	CN = GlobalSign Client Authentication Root R45, O = GlobalSign nv-sa, C = BE	165C7E810BD37C1D57CE9849ACCD500E5CB01EEA37DC550DB07E598AAD2474A8	
15	CN = GlobalSign Client Authentication Root E45, O = GlobalSign nv-sa, C = BE	8B0F0FAA2C00FE0532A8A54E7BC5FD139C1922C4F10F0B16E10FB8BE1A634964	
16	CN = GlobalSign Timestamping Root E46, O = GlobalSign nv-sa, C = BE	4774674B94B78F5CCBEF89FDDEBDABBD894A71B55576B8CC5E6876BA3EAB4538	



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Other CAs			
#	Subject	Fingerprint SHA-256	Additional information
17	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	445EEC78BC61215044A0379656AA2D5DB5E42F76CB70B8D14C2077AA943D4EBB	Cross-certificate
18	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	33EF151EFB08D1C44FB85CC3F23EC6873014E9F881691BD4938B7F251580B694	Cross-certificate
19	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A5E33C28E3013A71F5F760AE3B16595090043D2EC5209EC52903C4FBAD258DAD	Cross-certificate
20	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	F349954E8FB6D44011BCB789D97D9A2CB2032BD5F0B598D1FB8A099F5848D523	Cross-certificate
21	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	C84E1378B974A991ACDCDD733421E3061E6FA21A0491C8902BAFDE3855E0063E	Cross-certificate
22	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	1DF6054D6641404633641BB5FA3742FDA7D075E2514840AB61E00CCBBB7D341D	Cross-certificate
23	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A63C1398B5F8DD2D432FBE4C2C19142BEA6D5D0221FAE794718AE7597ACCA96D	Cross-certificate
24	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	3F319B2AFED4A0F75127BE59925550D0428E68763A09E273EB6A9FF8D18DBB5B	Cross-certificate
25	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	DDA8DA736187D76F4F0ED5A5F667B54D99A98AE06091D0E3A01714E9221695AD	Cross-certificate
26	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	0F1554C2FD591B0256A608E1C136A837E7A6E041561EE08A911B2AFDCD3C6C1B	Cross-certificate
27	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	45CB1D874CB03BD5C5B6E079C8FC29E51521EE5628486301964A41F94BA59F88	Cross-certificate



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28	CN = GlobalSign Client Authentication Root E45, O = GlobalSign nv-sa, C = BE	F375270F2F216B9F62CC31795619F6FE1943DF65D1B198D3341170A40725BFC7	Cross-certificate
29	CN = GlobalSign Client Authentication Root R45, O = GlobalSign nv-sa, C = BE	3DA135562E942799D547CA72EA57D7AC03791B24D4E24BA2E1E1331E8A1678F0	Cross-certificate
30	CN = GlobalSign Code Signing Root E45, O = GlobalSign nv-sa, C = BE	E506B72BB97A14D24959A0D1A977E1ACDB6155D68FB4846885E544D147E7D577	Cross-certificate
31	CN = GlobalSign Code Signing Root R45, O = GlobalSign nv-sa, C = BE	05E0634B1FEB98AE6B4CF101728CF9D5A1793CEACE301506FF332B22D4CF08EB	Cross-certificate
32	CN = GlobalSign Code Signing Root R45, O = GlobalSign nv-sa, C = BE	6385DDCD1B768648267EE5122897CA085FC45D6030ECB55098F583AF152AA4A6	Cross-certificate
33	CN = GlobalSign Secure Mail Root E45, O = GlobalSign nv-sa, C = BE	5B87841E80AAFE877804E56694473DCA8BB9F1FF4FFCF885A3DAFD24463FCB64	Cross-certificate
34	CN = GlobalSign Secure Mail Root R45, O = GlobalSign nv-sa, C = BE	5268C94573AF66BA5A3DE979F2048DE43BD4B68AF0B73A2D639159FAFE637F69	Cross-certificate
35	CN = GlobalSign Timestamping Root R45, O = GlobalSign nv-sa, C = BE	6AFBC07C724C6F75C7743392F32BF5780BD5DD39268544D4882E7AEC1ADD0282	Cross-certificate
36	CN = GlobalSign Root CA, OU = Root CA, O = GlobalSign nv-sa, C = BE	6ADD368DA35458A09EDF880D0570E863ADC8507D49406B4D97E44E53BC9308C9	Cross-certificate
37	CN = GlobalSign, OU = GlobalSign Root CA - R3, O = GlobalSign	2510E248903F01B63F9398179E5506979F0EF507E4174B657AF6F770A417EC94	Cross-certificate



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38	CN = GlobalSign, OU = GlobalSign ECC Root CA - R5, O = GlobalSign	0AED971671F8FE67EBA28817550AFEE946FDC2C52250003A6CFB87BC5AAD8A04	Cross-certificate
39	CN = GlobalSign, OU = GlobalSign Root CA - R6, O = GlobalSign	75BFB522CC4B58DA22EE488517C5F2EFF92576D20F595F9ACE483A036FC1BB6B	Cross-certificate
40	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	C94FEDDA4E8608908580BC7F87B434E03BB262E42F64C63820A8F50FB17C1CEC	Cross-certificate
41	CN = GlobalSign CA for AATL - SHA384 - G4, O = GlobalSign nv-sa, C = BE	AC0AB963BB5F3DA05FBC8687F98C2B6EA0BB499E6118C1A9136B1BC7C3C71A6B	
42	CN = GlobalSign CA for AATL - SHA256 - G2, O = GlobalSign nv-sa, C = BE	AA89C466E9D06882C0DAAF72BE0F0FBCFE7C1EF2AAAD190640C4AD44F5517F34	
43	CN = GlobalSign PersonalSign Partners CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	118262C2088EE1528E20D836D2070854707C0D8F8E80FBE396F9ECD4B9141B5B	Revoked on September 30, 2020
44	CN = JCAN Sub Root CA0, OU = JCAN Sub Root CA0, O = JIPDEC, C = JP	8FA602FFF590DF583A36D509C265F6C3EA8C34A9D56CFF86285FBFE9936BFC55	Revoked on December 31, 2020
45	CN = GlobalSign CA 2 for AATL, O = GlobalSign nv-sa, C = BE	A13820A7387BDFAD204463EFA9216416639B7E73C31DC2F499F53FCD4D4D25C4	Revoked on December 31, 2020
46	CN = GlobalSign CA 3 for AATL, O = GlobalSign nv-sa, C = BE	C01963059070CB2306F4B486CCF1503359209E98499C810C2B49E26E31A4BD74	Revoked on December 31, 2020
47	CN = GlobalSign PersonalSign 1 CA - G3, O = GlobalSign nv-sa, C = BE	254BE91C1ABCB28DB5E4D675A29A1E788460B06591F1BA8497CBD17837E27ABE	Revoked on June 30, 2020



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48	CN = GlobalSign PersonalSign 2 CA - G3, O = GlobalSign nv-sa, C = BE	64E71601F7050921DEE039C03493615E488F12FC3FCECBADF438AA467EE1D41A	Revoked on June 30, 2020
49	CN = GlobalSign PersonalSign 3 CA - G3, O = GlobalSign nv-sa, C = BE	C228D93DBE5536A120AC24ED934467BAD7292F8B7EB202634B17070A89C5FE9B	Revoked on July 30, 2020
50	CN = JCAN Public CA1 - G3, OU = JCAN Public CA1 - G3, O = JIPDEC, C = JP	91E98D0947C125494EAAF2A38D087BE0781AF20D8A14EE8C39FECDC482CF5F82	Revoked on December 31, 2020
51	CN = NAESB Issuing CA - SHA384 - G3, O = GMO GlobalSign Inc., L = Portsmouth, ST = New Hampshire, C = US	0986B5A1C7314EFB04FB648B9E2B57CF4842FD1D4345D28E52094C90A9FECBFE	Revoked on September 30, 2020
52	CN = GTS Root R1, O = Google Trust Services LLC, C = US	3EE0278DF71FA3C125C4CD487F01D774694E6FC57E0CD94C24EFD769133918E5	Google Cross-certificate *

* The cross-signed certificate was signed with a key controlled by GlobalSign, and the certificate is subject to GlobalSign's CP/CPS. While the cross-signing establishes a trusted relationship, the cross-signed certificate is not controlled by GlobalSign. Accordingly, the examination by Ernst & Young, did not extend to controls exercised on certificates issued by any external registration authorities.

DV SSL Issuing CAs			
#	Subject	Fingerprint SHA-256	Additional information
53	CN = GlobalSign Domain Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	09BC1B137C031239EF788673E94EB17F5F3ECAB07D3ADBFB485E75ABFAAF3B9A	
54	CN = Soluti CA - DV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	5C452334D9C9C9A2EA42CC77A7165E1795EE9D84EB70CB784B47EA9D92A582D9	



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55	CN = Valid Certificadora Digital AlphaSSL CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	04DE47A9CDD3091CFC5EF6AAA3B7D4B53E13C4D4DC02364F6C0B408742EC3C76	
56	CN = Valid Certificadora Digital SSL DV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	FCF26FBC1B2A25A76AB4EA92B2CBEF367E0131091C802DA49898F78AE54B30F8	
57	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	8C2410F76B149CA062B420AB611B6BF0A06E6E799A29587E4D4EC16D0537B7EA	
58	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	EE793643199474ED60EFDC8CCDE4D37445921683593AA751BBF8EE491A391E97	
59	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	BFDF4CF3F143AD0DB912D8AB3A7C12F617B9EA60CE8B1F4E44F74270FB21B19B	
60	CN = GlobalSign Atlas ECCR5 DV ACME CA H1 2021, O = GlobalSign nv-sa, C = BE	E7757BB0C4942ADC108D092A17B812B1043E06A094DD5E214920325556FC6924	
61	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	72132ECF2F8C75B5F214C00ED14562E14912B7F2F4D2633180F3E4918980FEC4	
62	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	6F335DD7CD4AAA1D9140F290E9E7B3498A7CC35A244AA300E146BA2D9D02B960	
63	CN = GlobalSign Atlas R3 DV ACME CA H1 2021, O = GlobalSign nv-sa, C = BE	70F5C63C4F112837AB99870B0ECB5D722EEA0B0D0DDB9320B98B99B9BD137866	



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64	CN = GlobalSign Atlas R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	B65FE6A1BF2D52FF68B7D3E9D0F06B300A1C3F248309B70405CA7BDEC054BDDD	
65	CN = GlobalSign Atlas R3 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	59F5FF92B608A0119FF1DD7C603E0EB16F4FEAD9D4717AC3BC62D286AE399CDA	
66	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	37D080A5E9A526663E56EE20DE4BD9F7952DACC341491439080167AD5DD18CAC	
67	CN = GlobalSign GCC R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	762538439509C411C437D3C567563E1378671281FC4A1464ADD031870843676E	
68	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	5A817EADA4AD78734EBB2CF674352D97F4352290C40EAF10E764B1EAC075B0E6	
69	CN = AlphaSSL CA - SHA256 - G2, O = AlphaSSL	933E4A2D8DB1FF9FF0E508EA7F1637E074F660FE6F365A2233DFC2B52C889D98	
70	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	669E7727A92BE72D9718E16922DC1BC1492B1AF33FA4793E68D8778F19A2EBE0	
71	CN = GlobalSign HV ECC DV SSL CA 2018, O = GlobalSign nv-sa, C = BE	4B0D1392D39157353207A64CCB14683DDE9D2CED1FB58B16E038BE5707C27813	Revoked on July 08, 2020
72	CN = GlobalSign HV RSA DV SSL CA 2018, O = GlobalSign nv-sa, C = BE	54C37A8E853FD1D6378D378B939307EC321A31CC1A5A89E7180633BC13F18762	Revoked on October 21, 2020
73	CN = GlobalSign RSA DV SSL CA 2018, O = GlobalSign nv-sa, C = BE	9E898ED03FA46969690DAD73C7296675045FF9B5A0100A399BEB8435A98F5185	Revoked on January 20, 2021



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74	CN = Soluti CA - DV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, L = Goiânia, ST = Goiás, C = BR	A74FFFF528471905385073ADF3997019B26F4FAF24BCE9102A272E7A4484E4BC	Revoked on July 11, 2020
75	CN = AlphaSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	4C013B8854689CB6626CC087B4D4FCCA45104E2D73BFADF33A6979ED124B7837	Revoked on December 09, 2020
76	CN = SHECA DV Secure Server CA, ST = Shanghai, L = Shanghai, O = Shanghai Electronic Certificate Authority Center Co., Ltd., C = CN	393B8B15CABC3886FB2E416495D63C8BADD8DCAF87552076C8A0A9637C24DE47	Parent revoked on July 11, 2020
77	CN = Valid Certificadora Digital AlphaSSL CA 2018, O = VALID CERTIFICADORA DIGITAL, OU = VALID AlphaSSL, L = SÃO PAULO, ST = SÃO PAULO, C = BR	385135AB18DD190A03BCC0601ACA6F83CEA366642791EBE0A2FDB059C2F7750A	Parent revoked on July 11, 2020
78	CN = Valid Certificadora Digital SSL DV CA 2018, O = VALID CERTIFICADORA DIGITAL, OU = VALID SSL DV, L = SÃO PAULO, ST = SÃO PAULO, C = BR	62B48F51E5868676FD79B9DD9DB98BA928494BA734403C583393C42CE00AD448	Parent revoked on July 11, 2020
79	CN = Cloudflare ECC DV CA, O = Cloudflare, Inc., L = San Francisco, ST = CA, C = US	0F4517487FD0A8BA3194A6122450A7B32C987FFF16F2D4AF54E6EDB6FED68E08	Revoked on September 16, 2020



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80	CN = Cloudflare RSA DV CA, O = Cloudflare, Inc., L = San Francisco, ST = CA, C = US	D439F88E8F2F80A306F910DCDE548D71BBFD99A85FC7034EFB610E3749550932	Revoked on September 16, 2020
81	CN = AlphaSSL CA - G2, O = AlphaSSL	1DCA65B86A57336BA5AFB7214A36F7D6EDE698EB4F03387CB3AD6BBD3A93BAB6	Revoked on December 09, 2020
82	CN = GlobalSign Domain Validation CA - G2, O = GlobalSign nv-sa, C = BE	E87EA2BED6C6203B2C55B00FE49D2876FBA64702105AEB748B865A918B5C7D27	Revoked on December 09, 2020
83	CN = GlobalSign Domain Validation CA - G2, O = GlobalSign nv-sa, C = BE	BA0E2B6BF2C98ED2C3B1C1C08A1BBDCAF9270AC528A3194301DD2A0B6B67B9B3	Revoked on December 09, 2020
84	CN = GlobalSign Domain Validation CA - G2, O = GlobalSign nv-sa, C = BE	4E153A588877688F1A0C103A084C2EDB3AD1D8C480CF03D8AB6FED47D9204370	Revoked on December 09, 2020
85	CN = GlobalSign Atlas R3 AlphaSSL CA H1 2021, O = Globalsign nv-sa, C = BE	1ABC5AD5BC3911A5B4A91E42BBA3212E2AA3DC80147EFE1D49572E4BE0532633	

OV SSL Issuing CAs			
#	Subject	Fingerprint SHA-256	Additional information
86	CN = GlobalSign Organization Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	699D54B7482A5D329331EA0415CC2EDCD60FDA01D19E71D054196BCE0677735C	
87	CN = Prodrive Technologies B.V. OV SSL Issuing CA, O = Prodrive Technologies B.V., C = NL	580BB3AB127F5E13E940AE7365E3C69A62AD204D7FDFA451592FE7C47DC02A95	



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88	CN = SHECA OV Secure Server CA, O = Shanghai Electronic Certificate Authority Center Co., Ltd., C = CN	AD7B58C3C5D9586BE5B62799C2792C4111C9852A96F7B0607221265713957E1C	
89	CN = Soluti CA - OV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	AB74B1411AD23E2227FB88A2A9304A1A45A5C4840B3635F1036A46E8374279AC	
90	CN = Valid Certificadora Digital SSL OV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	6B4F9DE13678846730D50E914A08E7BE9B742CA3A0A7D5393367830B93A6F553	
91	CN = ATT Atlas R3 OV TLS CA 2020, O = ATT Services Inc, C = US	DC2728331312E75C4D7B442F3BDDA790CB77A9D6AC854D5BCE18AC43CA59909A	
92	CN = CrowdStrike GCC R3 TLS OV CA 2020, O = CrowdStrike Inc., C = US	78CB512DE48CEDCD7134DF57C973C1E1A07692B8F542A44ACEBB8BB776D55D59	
93	CN = DPDHL Global TLS CA - I5, O = Deutsche Post AG, C = DE	32A4E554E363116FE48E22F01DAC1736752A71C720F99F462D565022D3BAD07D	
94	CN = GlobalSign Atlas ECCR5 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	2EB8A1317288F08233E6883CEBE67EA6A0989E22ACA42C58D59F5A834E02C513	
95	CN = GlobalSign Atlas R3 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	A6032CC352F1E2E3628E162A3047BC7D647E2D601A2C0F26CAAF9AAF7A54239C	
96	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	4B7334E1D8999822BAFA8FF6888125389B18A4E5AB26FFA624C7F68FDC81FOCB	



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97	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	EOC2EBD1F6BAD4FEAAE31A3107E69ABEE902DB38B9DFBE33F0570BDA3494C20A	
98	CN = GlobalSign ECC CloudSSL CA - SHA384 - G3, O = GlobalSign nv-sa, C = BE	BOCD6AE7B9E20EC5F830FEE01F666D5D90E6E229D06BC46A30ACCEDFEC889648	
99	CN = GlobalSign ECC OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	87C71553445EB3C33C3E0710711B99E9C7773F04D91AC38A9F4C082EE24101EA	
100	CN = GlobalSign ECC384 SSL CA - G3, O = GlobalSign nv-sa, C = BE	DC6C44AC8A3CD5C3451273F4431526B2EF666062EE763258A928F60BD08E39FE	
101	CN = GlobalSign Organization Validated CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	1E1741A12EB8DA2BD76EA96C04F520359839710F620E80952F48DD0240A12CD8	
102	CN = GlobalSign Organization Validated ECC CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	65EEC0CC6C970CC1CD73659115DC8D904E6F12E6DC8FD4DDA39D54CB30224780	
103	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	1C9737E968AD9DFF8D8D7FCF996A144BB97851A19011A0190C943CAE8D43CFE0	
104	CN = GlobalSign RSA OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	B676FFA3179E8812093A1B5EAFEE876AE7A6AAF231078DAD1BFB21CD2893764A	
105	CN = ICPEdu, O = Rede Nacional de Ensino e Pesquisa - RNP, C = BR	D5E84D9A677E6CDA72DD1C1BA7AD8DDFC25EFAC220C8A9571CEC27C107555702	



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106	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	74EF335E5E18788307FB9D89CB704BEC112ABD23487DBFF41C4DED5070F241D9	
107	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	0B339212D7CFF17A2C59E35669B58E77350133750A78DA9404770EDD470DEF76	
108	CN = RNP ICPEdu OV SSL CA 2019, O = Rede Nacional de Ensino e Pesquisa - RNP, C = BR	88FC18BD071BE1FBC53FFBC801F03F5B2C4DA87BBA0C098E2B4808F19EAB05FE	
109	CN = Trusted Root TLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	91F19CE503C9FE7FF9587D8EFBEF7315AAEE77DC2D14526126493B4AD6FE801F	
110	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	E155EBF96334E79AE2E287D55CFC9185DE24935A653F13C5BA05AFF818771BC6	
111	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	C2E4236DB1B757B51B77921388EFA823E6A600FD4BDA30B63AB77886F25618B7	
112	CN = ATT Organization Validated CA 2019, ST = Texas, L = Austin, OU = ATT Business Wi-Fi Services, O = ATT Services Inc, C = US	7AA45D6F5B14DAB1C6844C19C2804E14B5811E6EDE1F02B0AEF065A7B359C68F	Revoked on September 30, 2020
113	CN = DPDHL Global TLS CA - I4, ST = Nordrhein-Westfalen, L = Bonn, O = Deutsche Post AG, C = DE	94C663E9EA5C27EE4F64127F9B425863E991A9E156C07DF1A00803AE31764162	Revoked on September 30, 2020



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114	CN = CrowdStrike OV SSL Issuing CA 2020, O = CrowdStrike Inc., C = US	AE03B9AD17106A28785830B1DCD636797C4C64D81CB8D161595DBAF83433E64C	Parent revoked on July 11, 2020
115	CN = Trusted Root CA G2, O = GlobalSign nv-sa, OU = Trusted Root, C = BE	6E32A35B599E9087BB1AB35CE73022EC2E26AF34BE388919419C95700CD8E7FB	Revoked on July 11, 2020
116	CN = Trusted Root CA SHA256 G2, O = GlobalSign nv-sa, OU = Trusted Root, C = BE	01FD73EF5E70F526FC9C11F65FE2EE6F7125B3693949227FFD8E459E583C458A	Revoked on July 11, 2020
117	CN = Beame.io CA 2, O = Beame.io Ltd, L = Tel Aviv-Jaffa, ST = Tel Aviv, C = IL	CF6E6B82C997CB5CC1A55066AF5F60CAAC77594EB106FB4D498BC50ECDEB8A3A	Parent revoked on July 11, 2020
118	CN = RNP ICPEdu OV SSL CA 2019, ST = Rio de Janeiro, L = Rio de Janeiro, OU = Gerencia de Servicos (GSer), O = Rede Nacional de Ensino e Pesquisa - RNP, C = BR	42CFDDA6F660B8E5B4C1C411965A4519312559E3262F8DB69D2DAE17B26B3BA3	Parent revoked on July 11, 2020
119	CN = Soluti CA - OV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, L = Goiânia, ST = Goiás, C = BR	E6E929C8456C014E8DA733ACE4E9814552272B81176050A13EA45A823200B14B	Revoked on July 11, 2020
120	CN = SHECA OV Secure Server CA, ST = Shanghai, L = Shanghai, O = Shanghai Electronic Certificate Authority Center Co., Ltd., C = CN	77EAC476453CB732257FF166A5EBD1656CB1F673B68E28DF41774133979FA2A4	Parent revoked on July 11, 2020



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121	CN = Valid Certificadora Digital SSL OV CA 2018, O = VALID CERTIFICADORA DIGITAL, OU = VALID SSL OV, L = SÃO PAULO, ST = SÃO PAULO, C = BR	600E97601B0BBC5F056F04EEF671EF580F2A8583C6D2D3FAD401B9D820AA8836	Parent revoked on July 11, 2020
122	CN = Prodrive Technologies B.V. OV SSL Issuing CA, O = Prodrive Technologies B.V., OU = IT Services, L = Son, ST = Noord-Brabant, C = NL	398B1499CE00A25F61CAC3D8BEE571601880823EF288BE9772A4D13398422595	Parent revoked on July 11, 2020
123	CN = GlobalSign Organization Validation CA - G2, O = GlobalSign nv-sa, C = BE	A66422C4E449D465CB023A7FC7633DE8ED1816985CA41093FC96B3663ED7A43B	Revoked on December 09, 2020
124	CN = GlobalSign Organization Validation CA - G2, O = GlobalSign nv-sa, C = BE	082B243047BF00F584401F538B504BAE9EC060E007FFF28B159C08417068654E	Revoked on December 09, 2020
125	CN = Beame.io CA 1, O = Beame.io Ltd, L = Tel Aviv-Jaffa, ST = Tel Aviv, C = IL	43263913B483EB6F0B020540F8F7BE0A1D7C9CE7652FE0FB4743D7213393551C	Parent revoked on July 11, 2020
126	CN = ICPEdu, O = Rede Nacional de Ensino e Pesquisa - RNP, OU = Gerencia de Servicos (GSer), L = Rio de Janeiro, ST = Rio de Janeiro, C = BR	EACBA6C96598B4A41FD53D69AB9ED9FBBB1381154C453456720C174FFE576D1D	Parent revoked on July 11, 2020
127	CN = Beame.io CA 1, O = Beame.io Ltd, C = IL	0D36F6A2299E9E268F94ADB49E57E6717D713C3F47B889C40DCDC8CFE940CB80	



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128	CN = GlobalSign Organization Validation CA - G2, O = GlobalSign nv-sa, C = BE	A6233ECB77053F72937E894372A601ED3ABEA90CC3B5D89512720BF3FFCBDC9D	Revoked on December 9, 2020
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EV SSL Issuing CAs			
#	Subject	Fingerprint SHA-256	Additional information
129	CN = Soluti CA - EV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	11FBA4A7EE579C70E1D57F9F9B6A8C209E1219C4F1D3846F83FFCE74E9E5E2CE	
130	CN = Valid Certificadora Digital SSL EV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	8AEFEBD88BE87A30B19C60C5BD0FB5E9FBCD15D5582D5FC9A7499578D68DCEC0	
131	CN = GlobalSign Atlas E46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	364DF25CC88F6FB0202C02CD9B8EA02DFE8AC02341EFF5A9DFFC5BE159ED5991	
132	CN = GlobalSign Atlas R46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	E1E15D289697AF3285BF34112A3E60BC11C0C8122DD2B9B3420AB2E5E57883CA	
133	CN = GlobalSign Atlas R6 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	BCE7091355D2417A37F8CFE2AC8F17C2748888BA0EEA90000FC980ECFC2D041F	
134	CN = GlobalSign ECC EV SSL CA 2018, O = GlobalSign nv-sa, C = BE	8F19FFE02FC795ED70765D1436ADDF772FE0F0773DA436EDBDB42A2E30E2E828	
135	CN = GlobalSign ECC384 EV SSL CA - G3, O = GlobalSign nv-sa, C = BE	15549187490314F5177641F0BEB32634AA1230EB2CF2C28AD9C73914FB18ABA0	



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136	CN = GlobalSign Extended Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	AED5DD9A5339685DFB029F6D89A14335A96512C3CACC52B2994AF8B6B37FA4D2	
137	CN = GlobalSign R6 RSA EV SSL CA 2019, O = GlobalSign nv-sa, C = BE	57264B82A864DBA1C11EF3F80ABB94CAC3660662B0C22F571FF993B3FBCF76FB	Revoked on July 08, 2020
138	CN = GlobalSign ECC EV SSL CA 2019, O = GlobalSign nv-sa, C = BE	0D3176C58F321AA34C57C8DF7C17D1F4E76C797EC116C9F1D697748ED1FCE7D9	Revoked on July 08, 2020
139	CN = GlobalSign RSA EV SSL CA 2019, O = GlobalSign nv-sa, C = BE	0D6E46784F3B694E9C7506786417BC6F87F9D2F73D19B5E8081612B21137B766	Revoked on July 08, 2020
140	CN = Soluti CA - EV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, L = Goiânia, ST = Goiás, C = BR	BB170B39784D02784325CEA938D92314C617DDE808C867E33E2AD161D54B3E8A	Parent revoked on July 11, 2020
141	CN = SHECA EV Secure Server CA, ST = Shanghai, L = Shanghai, O = Shanghai Electronic Certificate Authority Center Co., Ltd., C = CN	147C447FEEB86202B503314FCAF0036BEAAEF437C39B56B358EC446A9D20387F	Parent revoked on July 11, 2020
142	CN = GlobalSign EC Administration CA2, O = GlobalSign nv-sa, C = BE	C883B3ECC6AC0DEE75CDD585E73A209287BC0C9F9D79D488860F63E2EA8A7D2C	Revoked on December 09, 2020
143	CN = Valid Certificadora Digital SSL EV CA 2018, O = VALID CERTIFICADORA DIGITAL, OU = VALID SSL EV, L = SÃO PAULO, ST = SÃO PAULO, C = BR	27FA1BE4F4B56A142A47A56A7E94B72502059B4022E4623E748CA1EF151CF222	Parent revoked on July 11, 2020



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144	CN = GlobalSign Extended Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	5BB2382D20E09AE56B4F3A5157838F7BAE49E42E3CE53484D66EEB2C0747EF4A	Revoked on January 20, 2021
145	CN = GlobalSign R6 Admin CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	C5B679106958152F83FB5886DDC41F0785193EF67C6975BE3E509F17F29B7A86	Revoked on July 08, 2020
146	CN = GlobalSign GCC E46 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	AA76C50166CD1B865B78D795C2C87A48D4A6229E65F8B38DBD005154EB2ED2DC	
147	CN = GlobalSign GCC E46 UK EV QWAC CA 2020, O = GMO GlobalSign Ltd, C = GB	8814C0688344DE0F21AD1BD076E9F3248AF430E4FE760952E3A150DFAEDCE016	
148	CN = GlobalSign GCC R3 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	D4A5941C7141ED1949A0C6CE9DD45A0AB94DC337902EB0A1209852738EEBE854	
149	CN = GlobalSign GCC R3 UK EV QWAC CA 2020, O = GMO GlobalSign Ltd, C = GB	A33017D9DF494C09D58709107403AEE461B9461E81BA395C28C36693C27D1986	
150	CN = GlobalSign RSA EV QWAC CA 2019, O = GlobalSign nv-sa, C = BE	EDC734C501501DC7A27448FA02C74931F8578BF297B173F34B841E82C6691926	Revoked on February 24, 2021
151	CN = GlobalSign GCC E5 EV QWAC CA 2021, O = GlobalSign nv-sa, C = BE	ODD2C7E0AF8200F49F4192A89AE634D4CE41B80C63B0629CC68E538C316F020E	
152	CN = GlobalSign GCC E5 UK EV QWAC CA 2021, O = GMO GlobalSign Ltd, C = GB	0966A88729C938F9DCD65BB3C63B608618EAE5183ED1FED752B323089687A20E	



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Timestamp CAs			
#	Subject	Fingerprint SHA-256	Additional information
153	CN = GlobalSign Partners Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	2A015531A5F3A4CE589BD853C71DD069587322F574D85C9C9B9F9DF8F86C075E	
154	CN = GlobalSign Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	F642418E4D0C63DEC785C960EFA68BA745F38851744EF81F225CB89305314D50	
155	CN = GlobalSign Partners TSA CA for AATL, O = GlobalSign nv-sa, C = BE	7E8F914119BB1090D6204908E5AE1F40BE24C1491CD7D5CFB6A93618CBC00FD9	
156	CN = GlobalSign TSA CA for AATL, O = GlobalSign nv-sa, C = BE	4D8EB49380EC72AC9FDF21FE1C6DB2E9490C76BEADD1F7B528C3CCD272C8FE28	
157	CN = GlobalSign Timestamping CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	9BF9496777D14425ED0086C1BB2C0707B62A61C194C5162E4F07637AFF166B76	
158	CN = GlobalSign Timestamping CA - R3, O = GlobalSign, OU = Timestamping CA	61C1067083AE044EF1D649CE590BBF09D9D739E025DA8D195F71CFAAD6EBAE69	
159	CN = GlobalSign Timestamping CA - G2, O = GlobalSign nv-sa, C = BE	C977923C771E1A66C925A2B6F501732E678DC9887AFE6BFAAC039D1D9A71F0EC	
160	CN = GlobalSign Timestamping CA, O = GlobalSign, OU = Timestamping CA	DOCAE6947BC77F0B495CA808D6CDE685FCD20225E1E530B635B113ED40728EF3	

The following CAs are not capable of issuing working publicly trusted SSL/TLS certificates intended to authenticate servers on the Internet (i.e. certificates containing the id-kp-serverAuth OID (1.3.6.1.5.5.7.3.1) in the extendedKeyUsage extension) and they were in scope only for the Network Security Requirements:

Root CAs			
#	Subject	Fingerprint SHA-256	Additional information
1	CN = GlobalSign IoT Root R60, O = GlobalSign nv-sa, C = BE	36E80B78775DDA9D0BAC964AC29D5A5EC4F3684E0C74445E954A191C2939B8E0	
2	CN = GlobalSign IoT Root E60, O = GlobalSign nv-sa, C = BE	43ED443C1F0CD46C9914B4272C24DC42CF6FE62B4AAB37585878A26D882AE4CB	

Non-EV Code Signing Issuing CAs			
#	Subject	Fingerprint SHA-256	Additional information
3	CN = GlobalSign GCC R45 CodeSigning CA 2020, O = GlobalSign nv-sa, C = BE	74D499A72D0BA5D4DDEC55805ECF157C891E45E5D490A19DC5FD4476954E774B	
4	CN = GlobalSign CodeSigning CA - G3, O = GlobalSign nv-sa, C = BE	4047C9D69260C07213BCB8608A7EC5E2838A56B79F67847812EAC0778D0D27F1	
5	CN = GlobalSign CodeSigning CA - G2, O = GlobalSign nv-sa, C = BE	FFFE077503FD72F0E5338B0A7B4E218E7D1FF82E493E7E852AE51AA1C7585D17	
6	CN = GlobalSign CodeSigning CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	BE40813869AB27A071D12AD6A8830583EBC3B618E3F2346359F4B11A1C9434EE	



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7	CN = GlobalSign CodeSigning CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	FB54EEA9BCE8E9EA9782154F3D414277FB709F49B947D73978AC278546C2CE03	
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EV Code Signing Issuing CAs			
#	Subject	Fingerprint SHA-256	Additional information
8	CN = GlobalSign GCC R45 EV CodeSigning CA 2020, O = GlobalSign nv-sa, C = BE	CDOE144DD10BAC221FE2FB901058D16450A0578B3C47C770908F2E9ADA28EF12	
9	CN = GlobalSign Extended Validation CodeSigning CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	1E864278C20881B671C0C6D2E14B61150AD1F13CF92C6EC14B550DCBC47E1541	
10	CN = GlobalSign Extended Validation CodeSigning CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	DD038E87E0B4D2C369680D3DE78638AB39FC1D7E50632996921101768DB8D4D8	

Other CAs			
#	Subject	Fingerprint SHA-256	Additional information
11	CN = CBMM GCC R3 SMIME CA 2020, O = COMPANHIA BRASILEIRA DE METALURGIA E MINERACAO, C = BR	F6F9C3FC5636C7E800EB1BDDFD33AAF98495C130DBF48F9BAF4AB7A1F665DFB4	
12	CN = CRB Group GCC R3 SMIME CA 2020, O = CRB Group, Inc., C = US	814179F36A71529C915C540261E44638E37A4FCE879740F0CE7351A8E9291A03	



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13	CN = DexKo Global GCC R3 SMIME CA 2020, O = DexKo Global Inc., C = US	D531F24E655D1F28A344BD3E0E9B141CE88A4139C61CB0CF5184EF2E2B9531A7	
14	CN = DSigner GCC R3 SMIME CA 2020, O = DSIGNER, SOCIEDAD ANÓNIMA, C = GT	3FA4A9B65FDF6876FE668DFECC434932EBC254FD741119FC432A5989A085F320	
15	CN = European GNSS Agency Atlas R45 SMIME CA 2021, O = European GNSS Agency (GSA), C = CZ	F4EFE27C6B037747B3A89E23EE23C1B70A24DEB53B2E02F423BB0F73E1822267	
16	CN = EY LLP GCC R3 SMIME CA 2020, O = Ernst & Young LLP, C = GB	3A093122808FFFA440E19824D0BC7CD6B01D8D8277F7F42FA16E80A0205D4A7A	
17	CN = FIFCO Atlas R45 SMIME CA 2020, O = FIFCO, C = CR	80642AAC7C782BCDB0C3F6F385488F9BE3BB2DE30B863009E74B29F026C9EAE6	
18	CN = GlobalSign Atlas R3 SMIME CA 2020, O = GlobalSign nv-sa, C = BE	479D6A0980722966237F06C41842EE796B55D4D00A0D663B785D48433A29156E	
19	CN = GlobalSign Corporate IT Atlas R45 SMIME CA 2021, O = GlobalSign nv-sa, C = BE	7C4E78C74B4818D17EF8B8AB91E32DB4F7E3CE84A0C5E47AAA62AE39FAB60D01	
20	CN = GROB-WERKE GmbH und Co. KG GCC R3 SMIME CA 2020, O = GROB-WERKE GmbH und Co. KG, C = DE	B75840FEA15C545335CD4BA58B707F53524CE984655AEBCC248A57E6F2403A8B	
21	CN = HERTZ GCC R45 SMIME CA 2020, O = The HERTZ Corporation, C = US	013C13426B92F703BA573D9E16C2E35AECA26C60F606B88D3CE2150C94D56C14	



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22	CN = Hyperion GCC R3 SMIME CA 2020, O = Hyperion Services Ltd., C = GB	9537738522B6A87FCF8338CF270203CCF1A7770BB14BB23FA2882A05FFB804E4	
23	CN = LinQuest GCC R3 SMIME CA 2020, O = LinQuest Corporation, C = US	DDD73ABF0259F18F77CA598C2745EA18243526B10D371D7E3B088D68C88C0A97	
24	CN = RWE Atlas R45 SMIME CA 2020, O = RWE AG, C = DE	BEE8FB99D7B9EC0CAEF1B1A6ACFFEABD777E31CBAC2D0E1846BDAEC4D5B18BE8	
25	CN = Spirit AeroSystems GCC R45 SMIME CA 2020, O = Spirit AeroSystems, Inc., C = US	90D87E23B012A357851472CE9F4E49201F67BA9EC1FB9CD236C0C5AAA15FFE9E	
26	CN = Trafigura PTE Ltd Atlas R45 SMIME CA 2020, O = Trafigura PTE Ltd, C = SG	36FCE16CC976727765DF5E9FADB12C544D704C35150D1F17DDE1A42A85B88BE4	
27	CN = GlobalSign ECC HV S/MIME CA 1, O = GlobalSign nv-sa, C = BE	E0CE5C4EF5D2186963D2B04ADE4612BBAF787E16048A5B468F7367776C3A03DE	
28	CN = CRB Group SMIME CA 2019, O = CRB Group, Inc., C = US	6A5F4C1678CA65E59F060D57CDFF665065314861D53A8E7D1450CA92D96CA102	Revoked on October 21, 2020
29	CN = LinQuest SMIME CA 2020, O = LinQuest Corporation, C = US	113138DD7B216725840238E2D7EEECB3738DB139064B24CB853FC270A49E6057	Revoked on November 18, 2020
30	CN = Trafigura PTE Ltd S/MIME ICA 2020, O = Trafigura PTE Ltd, C = SG	5E7FCB9C97BDA56993B1658D120232761D665A3644534300FA6A5BEC5E0D5795	Revoked on July 11, 2020
31	CN = GlobalSign SMIME CA 2018, O = GlobalSign nv-sa, C = BE	C8192C32F7B49C7F32A1CA001595A7F9E36C9E72058D6EAA1BAB7752A8C16718	Revoked on September 16, 2020



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32	CN = CBMM SMIME CA 2019, postalCode = 38183-903, street = RUA CORREGO DA MATA S/N, ST = MINAS GERAIS, L = ARAXA, O = COMPANHIA BRASILEIRA DE METALURGIA E MINERACAO, C = BR	C346D9137E05254C6EEAC99AC2F6748A0C5D3AFC6B7B9B1E00C40ADF4D85655D	Revoked on November 18, 2020
33	CN = Google S/MIME Authority, ST = California, O = Google Inc, C = US	6A1745B31176FAC284420A2BCEF67B59E22A1D37753ABAF2CC51B2F572922588	Revoked on December 09, 2020
34	CN = GROB-WERKE GmbH und Co. KG SMIME CA, O = GROB-WERKE GmbH und Co. KG, L = Mindelheim, ST = Bayern, C = DE	1608BF87414CDCFAB4279102A19702D9D5996A91329E3DF2F80495473AAD86C6	Revoked on October 21, 2020
35	CN = Hyperion SMIME CA 2018, O = Hyperion Services Ltd., L = London, ST = London, C = GB	DCD77E34B46D530AEF645A513389CD4FFC0F7D196A115B8F62A5FD0D557D46C6	Revoked on November 18, 2020
36	CN = GlobalSign HV S/MIME CA 1, O = GlobalSign nv-sa, C = BE	0F8EEFECOD1FDBDA33BFEB41455110613CC5681E92B4BCB95610DA35FE1F3C66	Revoked on April 16, 2020
37	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Remote Signing CA 2020, O = GlobalSign nv-sa, C = BE	323F35F0DFB01D6B478C24026C66852AAD3E96DCB1C5BE17C1DA1EC47D77CC87	
38	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas R45 UK Qualified Remote Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	0958E7A84F392A4F3B7DC5E30FDC8DF733E69B44C68C16FC0DA1741C08419DA0	



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39	CN = GlobalSign GCC R45 PersonalSign 3 CA 2020, O = GlobalSign nv-sa, C = BE	50161C1232F32E8057879F9C7651A9088F5AA1EF5AC9A9A4BD445C6E788EA6F8	
40	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified Authentication CA 2020, O = GlobalSign nv-sa, C = BE	E042DA36AA8B9A290A525B63AFBBD42E3DBA8286F7100C7981799C6EF2F8919C	
41	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified QSCD Signing CA 2020, O = GlobalSign nv-sa, C = BE	1B728D4A76506634A11007912F1D8C6B9AA39BE1AFCA49096657CF1FFB4513BF	
42	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified Signing CA 2020, O = GlobalSign nv-sa, C = BE	4E1474CFEB41D048C7E1E2C975D69AD3FD739BD44577A80D0432F233D51C5C77	
43	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified Authentication CA 2020, O = GMO GlobalSign Ltd, C = GB	EEE8A6FBDE0B1340552AE739832A686FE96103435AE1FCE9392D655E00D8670D	
44	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified QSCD Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	91F881C556A920B92C4C48221FAAC19615437CF4ACB7D079C0B426BF3483B3AE	



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45	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	F5E9E2705AB0C93E80652D2DEB573AB01D6700597BDA122BC08BA97FDC713368	
46	CN = GlobalSign R45 AATL Root CA 2020, O = GlobalSign nv-sa, C = BE	B296DC3BCF451217D7AD4F84FB8EE25CC92FC659CAFA0EB4A8B5B4DB3D0215C2	
47	CN = InComm Agent Solutions Inc Atlas Issuing CA 2020, O = InComm Agent Solutions Inc, C = US	4DFD9A61EB32208A94F15719FF2EC71449BCB0F344C18D5D1D3994A6C30EC92E	
48	CN = NAESB GCC R45 Client Authentication CA 2020, O = GMO GlobalSign Inc., C = US	5EBD04144508FADD1B9DB79FF62B826D6FF893987B1534C0F8EEC2261D6AC452	
49	CN = Accenture Federal Services GCC R3 Global CA 2020, O = Accenture Federal Services LLC, C = US	9D61B40ECFE094B415FBF6AEEA1FDB27A1A4C3B6FD9008D768777D6D7FBAAEE9	
50	CN = Ford Motor Company - Enterprise Issuing CA01, ST = Michigan, L = Dearborn, O = Ford Motor Company, C = US	7B96DA88C60AE48624F480217865FEB124719022F49E58EE830B3E93D36D9AEF	
51	CN = GlobalSign GCC R3 PersonalSign 1 CA 2020, O = GlobalSign nv-sa, C = BE	583C7FC250856B7F947FC7CC076FE216273CA1713D122C2E5D8F6038FD6E3562	



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52	CN = GlobalSign GCC R3 PersonalSign 2 CA 2020, O = GlobalSign nv-sa, C = BE	F0DBB9E90E6643CCB23660147E5DE24760440089D96F4AD0D82F66C3E7DA5C20	
53	CN = InComm Agent Solutions Inc Root Certificate Authority, O = InComm Agent Solutions Inc, ST = Florida, C = US	ECF5DC23556585AE8F9CE5BA0955F982AFF77E975F84C53F4A098626C20BFE5A	
54	CN = JCAN Public CA1 - G4, OU = JCAN Public CA1 - G4, O = JIPDEC, C = JP	9AC4C8E358C095C998122ADD17A336C0AC597ECBECB7EDC3F58A75040CF94A5F	
55	CN=Quáalitas Compañía de Seguros S.A. de C.V. GCC R3 CA 2020; O=Quáalitas Compañía de Seguros S.A. de C.V.; C=MX	795A8468D098E3729E6A17920AA6D8F27E84DC180F85C9B28A77FB368DCC7895	
56	CN = GlobalSign Primary SHA256 CA for Adobe, OU = GlobalSign CDS, O = GlobalSign nv-sa, C = BE	8B8AAA67E1EB067303F09E17A505CE7B6CA1C8DC0E1DB59D982B579C69D644E1	
57	CN = AbbVie Atlas R6 AATL ICA 2020, O = AbbVie, Inc., C = US	6509F94BCA4DC619F3E732D533ACD3D0F10ABA102A13123B6AF737C8E12DAA21	
58	CN = DPDHL User CA I5, O = Deutsche Post AG, C = DE	163B5F69720164075C16CE760A93C85D5073CD5A0D41C7A3AFB0B5E75B3DC646	



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59	CN = Giesecke and Devrient CA, OU = Corporate CA, O = Giesecke and Devrient, L = Munich, C = DE	A53FB60B6C9CEC1175C729BB8A34D1AA1DA85AF234E41603621D983940026400	
60	CN = Giesecke and Devrient CA, OU = Corporate CA, O = Giesecke and Devrient, L = Munich, C = DE	4AB23AF5233FD65FBD981973515A7379C76B9B852A5B4E35890B7F60D1923A4F	
61	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified Remote Signing CA 2020, O = GlobalSign nv-sa, C = BE	5CB0FDEF052BD18A0A40ADA2235F46EB42B6D0993ED5A50DE47E3EA12FF191B1	
62	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas E45 UK Qualified Remote Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	B89EBBFC57AE60653C676B8EB399DC9415BBB738CB0370651A86BFF075C83A39	
63	CN = GlobalSign Atlas R45 AATL CA 2020, O = GlobalSign nv-sa, C = BE	65573E11BB13C6ED115E0B90E2C30B1E4DE4D5CAC1B31EAB2D417C32A3DA5D79	
64	CN = GlobalSign Atlas R6 AATL CA 2020, O = GlobalSign nv-sa, C = BE	96D0E059827A7C99BA5CF586D1B77397A3C83777C467BF1914762AE16ABE3834	
65	CN = GlobalSign CA for AATL - SHA256 - G3, O = GlobalSign nv-sa, C = BE	2E8820DC0EAF3D6D285C057ECE14470B377438B002CEDD4C72B4F343A54F43	
66	CN = GlobalSign E45 AATL Root CA 2020, O = GlobalSign nv-sa, C = BE	87903E20623512D28BDBFACE4D41BD50F5BA6B1B2E8CCAB134CE161769EAEC00	



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67	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified Authentication CA 2020, O = GlobalSign nv-sa, C = BE	5F2155F9A7444615C673994CDA99E963BB558A367B20305520E93D15EF3AF4E8	
68	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified QSCD Signing CA 2020, O = GlobalSign nv-sa, C = BE	8115E2CB4F04E56EA70EA932D0622831DD53B22BF6A93B3ACD9125FAB0374AF1	
69	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified Signing CA 2020, O = GlobalSign nv-sa, C = BE	35E9429CDE680D8D5311CDD46FAEF0AEE694B0556C3D69C4F670E243D64C87FE	
70	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified Authentication CA 2020, O = GMO GlobalSign Ltd, C = GB	1DBC5465732AC3232FF12641C2898EA0F239D06186DD1B085496ABC6E5BD07F2	
71	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified QSCD Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	712C42F3C0FA3BDFA11B22AC9811C8EB912C4B464B43C705825DEEDC1195AD33	
72	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	28CB8EE23E7BDBBF40B2959A57BB589991C2635CD3B71AAB0E84F993C559D29F	



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73	CN = GlobalSign GCC R45 AATL CA 2020, O = GlobalSign nv-sa, C = BE	BCF8D9040635C95E84F9FEDDF36F9422C0D215C23798E9C2D5F3798ECF27B68A	
74	CN = GlobalSign GCC R6 AATL CA 2020, O = GlobalSign nv-sa, C = BE	75CC6021036890EAC71853FAE8382CF8DB33DC41706F42AAFE421E98AD38174C	
75	CN = Statoil Qualified CA, O = Equinor ASA, C = NO, DC = statoil, DC = com	0A665640BE77300E0DF23752F324499E132A99A7E5A81879AA9E58B65F501C97	
76	CN = Statoil Qualified CA, O = Statoil ASA - 923609016, C = NO, DC = statoil, DC = com	5E297C0107659C8068CC7674635E56F74D05BFD6E687D3075FC48C7E8FF70D95	
77	CN = Trusted Root nonTLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	3A30D4A3043F195609E30F747754699CC6CC97E1F5FCB83DE87E659E579E39AD	
78	CN = Ford Motor Company - Enterprise Issuing CA01, ST = Michigan, L = Dearborn, O = Ford Motor Company, C = US	DE8D9CED3CBD78B1F05DE90225D0B693D3296FB5611E179FDB1B2A7BF893F236	Expired on December 31, 2020
79	CN = DPDHL User CA I3, O = Deutsche Post, L = Bonn, ST = Nordrhein-Westfalen, C = DE	57D8F8E4F1DE9F44DFAC8443DA0205F1B8AA7E6DB75459943B74D89B3909BCA3	Revoked on September 16, 2020



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80	CN = Trafigura PTE DocuSign CA, O = Trafigura PTE, C = SG	0C3B69672EBABE1F96CAF3CBE598F7747C01F78014AF651191950D673FD91784	Expired on September 20, 2020
81	CN = Ford Motor Company - Enterprise Issuing CA01, ST = Michigan, L = Dearborn, O = Ford Motor Company, C = US	4C241CFE3D3FFB60CA88D6B06A552AB1CF0EF7D8D2E08DA15282B55192EBBD29	Parent revoked on July 11, 2020
82	CN = DPDHL User CA I3, O = Deutsche Post, L = Bonn, ST = Nordrhein-Westfalen, C = DE	2E0191751CA0CBA81C3A6338DEE1A02B8D6BCC4F1F8261B809BCCE7ABAF1A43D	Parent revoked on July 11, 2020
83	CN = Intertek Document Signing Authority, O = Intertek Group plc, C = GB	9571BFEA2F1F572EEE34F9EE99F5E55CC7A2EC3A1B4B52B7C32A228482B6CC57	Expired on August 01, 2020
84	CN = RISE Signing CA, O = RISE Research Institutes of Sweden AB, OU = IT, L = Goteborg, ST = Vastra Gotalands Lan, C = SE	DCEB06E046A76706BD1D928FA2DB893DB550D2973914843C5CC5DBE2D9D9B79D	Expired on August 01, 2020
85	CN = IHI-EC International Corporation, O = IHI E&C International Corporation, C = US	DC1983F14B0096FB12A6D82B4822730D238779CA0543C43C015F249249564D4D	Expired on July 31, 2020



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86	CN = DPDHL User CA I3, O = Deutsche Post, L = Bonn, ST = Nordrhein-Westfalen, C = DE	AF1898D7F0638751C075D0142D4E2A0EA731FC622324F153FE1BF3B6AFD9AF13	Parent revoked on July 11, 2020
87	CN = DPDHL User CA I3, O = Deutsche Post, L = Bonn, ST = Nordrhein-Westfalen, C = DE	EBE87BB4188502709F444055259ABB22BC51B88C908419A13559DFC8EF6630D1	Expired on July 09, 2020
88	CN = RTI SHA256 CA - G2, O = RTI International, ST = NC, C = US	5F7C6E6041DAA513CBFE3D4E07FDC84E230DA21AF2DE186460C9ECO481516DAB	Expired on June 27, 2020
89	CN = Noble Energy SHA256 CA - G2, O = Noble Energy, Inc., L = Houston, ST = Texas, C = US	FA51FE39F0F316E92412E1170118E2D62A8E4ADA0F88EC237F3CE631F70BE298	Expired on June 27, 2020
90	CN = Giesecke and Devrient CA, OU = Corporate CA, O = Giesecke and Devrient, L = Munich, C = DE	0F7F0A51DE1E5AE3E4B36647AE09BA59E36C773E308DC16268F4228AF527D710	Expired on April 30, 2020
91	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Authentication ECC CA 2020, O = GlobalSign nv-sa, C = BE	110CFA9601734984AB975D1069C6E45983E8AC1B9074FD489BAC2E2EFDF140E2	Revoked on July 08, 2020



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92	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified QSCD Signing ECC CA 2020, O = GlobalSign nv-sa, C = BE	5A65CA143019485BDD714A0285371C00426C0C67097C7939939E488819224A29	Revoked on July 08, 2020
93	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Remote Signing ECC CA 2020, O = GlobalSign nv-sa, C = BE	AEB217DC3CB735F7A4D17C4983D316153FA23960586F1E2F0BFDD9F60DA043FB	Revoked on July 08, 2020
94	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Signing ECC CA 2020, O = GlobalSign nv-sa, C = BE	11476A7C474022CC44D3E5D5952B587A7D940D25EA7EA959FE640B2CA9F7BFF9	Revoked on July 08, 2020
95	CN = AbbVie AATL ICA 2020, O = AbbVie, Inc., C = US	154E4834B28D4FB1F90FEE935D0DDE46C45A177FC1425A028C685C32855A85AD	Revoked on August 19, 2020
96	CN = GlobalSign AATL Partners CA 2019, O = GlobalSign nv-sa, C = BE	83FC891B350D9E0D7EBE6DD2A6BFE3D0B0F4653FCA048615A5DEEBBC039A3F66	Revoked on August 19, 2020
97	CN = GlobalSign Issuing CA for AATL Partners 2019, O = GlobalSign nv-sa, C = BE	67C46DC17762667844F1596089375FF45E05C2B316C89499F6E7FAB78C8F0379	Revoked on August 19, 2020
98	CN = Quálitas Compañía de Seguros S.A. de C.V., postalCode = 05200, street = JOSE MARIA CASTORENA No. 426, SAN JOSE DE LOS CEDROS, ST = CIUDAD DE MEXICO, L = CUAJIMALPA, O = QUALITAS COMPAÑIA DE SEGUROS S.A. DE C.V., C = MX	B716B089FE4E53D1A2EF7BA57AC85E68EC722CF61052C25A59626AD3B15C5F40	Revoked on October 21, 2020



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99	CN = DPDHL User CA I4, O = Deutsche Post AG, C = DE	C25C4EDBC36E3FB7C3D937BEE9F2D29E36AFB07CFA3188262E0D5FDC919E0D77	Revoked on November 18, 2020
100	CN = GlobalSign CA 6 for AATL, O = GlobalSign nv-sa, C = BE	BE1FFC0E1FF6088104F43E327E7C7DC72A9CA7B0DF05793123ABE32DEACEE76F	Revoked on December 31, 2020
101	CN = GlobalSign PersonalSign Partners CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	4E707867946AC05343C6BA8FF121EA66A758037913257A8EE4974350D39A1034	Revoked on January 21, 2021
102	CN = GlobalSign CA 4 for AATL, O = GlobalSign nv-sa, C = BE	EBA34C7B109671614C367E1DE075124C3954CE19F85FACF61090EC319F7F1A7F	Revoked on December 31, 2020
103	CN = GlobalSign Qualified CA 1, O = GlobalSign nv-sa, C = BE	F5709A2D2F68B53BF6F645BB178ADF95346F89FDA5C63BFDE08042A26492AAB2	Revoked on February 24, 2021
104	CN = GlobalSign Qualified CA 2, O = GlobalSign nv-sa, C = BE	FD3A0F3DD4480092B6D450473DEB9201A0B308A8807833A3C738F8A07EB81ED3	Revoked on July 08, 2020
105	CN = GlobalSign Qualified CA 3, O = GlobalSign nv-sa, C = BE	0AA9F2E7D95C718B7D1EB7CCDBD0164E86057AE9D66922BC60F9903F94A0F0EF	Revoked on July 08, 2020
106	CN = GlobalSign PersonalSign 2 CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	27D6FDAF80297846DFEFF82E7F58B9A48AC9E3EE93A112B1BBE243EE1A97447C	Revoked on July 11, 2020
107	CN = GlobalSign PersonalSign 2 ECC CA SHA 384 - G4, O = GlobalSign nv-sa, C = BE	46038F6326228CDB56619C52266613DA04C8CA499E0D03B0EDCFFC110D5CFC70	Revoked on July 28, 2020
108	CN = GlobalSign PersonalSign 2 RSA CA SHA 384 - G4, O = GlobalSign nv-sa, C = BE	5CDD809CF44F5F8665EAC15055504C5B06B787AC18294505BDBAB4A77E50D776	Revoked on July 28, 2020



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109	CN = GlobalSign CA 4 for AATL, O = GlobalSign nv-sa, C = BE	9DDC2E0D55B461E0C73228282DF56B2BEF224CA2385681D17B6E8C077852573C	Revoked on July 08, 2020
110	CN = GlobalSign CA 5 for AATL, O = GlobalSign nv-sa, C = BE	306E9739E3458FF4546877B704B2E3905E58B235D64E32F4F026AC91B7295D15	Revoked on December 31, 2020
111	CN = JCAN Public CA1 - G4, OU = JCAN Public CA1 - G4, O = JIPDEC, C = JP	7B464DC384FDB1A525C2CC279ED0C7CFAD24BECF72C46A7D7093D157C217607E	Parent revoked on July 11, 2020
112	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Authentication CA 2020, O = GlobalSign nv-sa, C = BE	61D152180C8BB668A37DE25F24641807443CBBDD50C1BCFF3E07058162A264448	Revoked on July 08, 2020
113	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified QSCD Signing CA 2020, O = GlobalSign nv-sa, C = BE	BAB082319000C0C103185D75135DA328ACA013E8F70F356833620D24800CD4C7	Revoked on July 08, 2020
114	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Remote Signing CA 2020, O = GlobalSign nv-sa, C = BE	2ABF6447B72ECB572DA30B27CD8D2069033AF045714AC458DA0789E9623E260F	Revoked on July 08, 2020
115	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Signing CA 2020, O = GlobalSign nv-sa, C = BE	A686AD3494BEB5ADC479C280BF156D3F87109F7866F88511E93D753EA3DD55E9	Revoked on July 08, 2020



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116	CN = NAESB Issuing CA - SHA384 - G4, O = GMO GlobalSign Inc., C = US	C4C7C436BD88E8E68DB00297DF83ACC819E198639BA00522C8E3245876898523	Revoked on February 24, 2021
117	CN = GlobalSign PersonalSign 2 CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	B778748A792B8F91F04B01BAFC31A31ED7EF6A712AFF80B6610D9AADEE207ADF	Revoked on February 24, 2021
118	CN = GlobalSign PersonalSign 1 CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	F5D2D2BA6817A7A9AA0E21354BBF0E6F95C5E287EE88CF2F279F0FFEC4EDAC15	Revoked on February 24, 2021
119	CN = GlobalSign PersonalSign 3 CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	701B432AC0CDD4D9CF95B4B884C32BF5CCA90D44E0161ABD13B934D68E380472	Revoked on February 24, 2021
120	CN = GlobalSign PersonalSign 1 CA - G3, O = GlobalSign nv-sa, C = BE	F068DEAA18CC02D5A8BE35CB8338327910291F6E62E7216A934764A1ABA4A800	Revoked on July 28, 2020
121	CN = GlobalSign PersonalSign 3 CA - G3, O = GlobalSign nv-sa, C = BE	B1FE3AEBF963A7880E74B0B0556681EA8B1CCCE3E69A7D3B10A68ACBE86E48A1	Revoked on July 28, 2020
122	CN = EY LLP SHA256 CA - G2, O = Ernst & Young LLP, C = GB	1557F65BA61C958B74EFA4A582BBAEBDD62A6D9B65FE95A80D5ED518F46ED87F	Revoked on December 31, 2020
123	CN = HERTZ SHA256 CA - G2, O = The HERTZ Corporation, ST = Florida, C = US	64FD7F66B805EF0FAE09DAC06EAD1A9AB5C28E6F24AD0759996D349987FEE7E2	Revoked on October 21, 2020
124	CN = DPDHL User CA I3, O = Deutsche Post, L = Bonn, ST = Nordrhein-Westfalen, C = DE	F037621405E0F356507E239FADD647842D3B50857C3CFF840859174F72F6FD18	Revoked on July 11, 2020



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125	CN = Ford Motor Company - Enterprise Issuing CA01, ST = Michigan, L = Dearborn, O = Ford Motor Company, C = US	3802E424516F78EEAC329AAE9B1F60A412DBE1D5B095D7AC9DC0DCDDE3C1F5FB	Parent revoked on July 11, 2020
126	CN = Accenture Federal Services External CA, O = Accenture Federal Services LLC, ST = DE, C = US	A9C8E971259A2ED6E65F721E07AA967C72C7CDB47C7BE1288D87BF08D2F3580D	Revoked on December 31, 2020
127	CN = Spirit AeroSystems SHA256 CA - G2, O = Spirit AeroSystems, Inc., ST = KS, C = US	8609BDCEF95E4A4D426497B5CD8ED4B001C953A5C14471CAAF58FB650DF8ABF0	Revoked on November 18, 2020
128	CN = CareFirst SHA256 CA - G2, O = CareFirst, Inc., ST = MD, C = US	CF9B7EF7B437F7E4709A0507E5C5871690021D64F3B8FCE703EC85C85AE8FA29	Revoked on May 20, 2020
129	CN = Giesecke and Devrient CA, OU = Corporate CA, O = Giesecke and Devrient, L = Munich, C = DE	632FD697BACAF1ED232517EC9B7622B7C25E1448B0CC626B33286719E351CE8A	Parent revoked on July 11, 2020
130	CN = NCDOR SHA256 CA - G2, O = Department of Revenue, ST = NC, C = US	C647C537F7E3D280948D40800AEF8F534254F74A12168E3630E760D71675BE3B	Revoked on May 20, 2020



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131	CN = Statoil Qualified CA, O = Statoil ASA - 923609016, C = NO, DC = statoil, DC = com	50CA2C8DFDCA8FB17F5FD447A86B24E263DD9F1D4FC77E899DD8CD9136943FCC	Parent revoked on July 11, 2020
132	CN = Statoil Qualified CA, O = Statoil ASA - 923609016, C = NO, DC = statoil, DC = com	2A480810310EA0CB659031A20D4E4A3C1000EF34526234964DFE9C656C45BCD	Parent revoked on July 11, 2020
133	CN = NAESB Issuing CA - SHA384 - G3, O = GMO GlobalSign Inc., L = Portsmouth, ST = New Hampshire, C = US	128DED1A8AD60C24B4254E31DB94FC4392BF93ED5434472AA43A0B9856106068	Revoked on July 28, 2020
134	CN = VWFS CA for AATL, O = Volkswagen Financial Services (UK) Limited, C = GB	CF89A41DFEE5F71740DEF602735DDBF1DEBE0CB816D73980D9A583C5881CE778	Revoked on May 20, 2020
135	CN = InComm Agent Solutions Inc Root Certificate Authority, O = InComm Agent Solutions Inc, ST = Florida, C = US	2A5EAD8B41A7CDDC126B10ED248A2EEFEDA855660342F222A38CC6605D443E22	Parent revoked on July 11, 2020
136	CN = DPDHL User CA I3, O = Deutsche Post, L = Bonn, ST = Nordrhein-Westfalen, C = DE	BCE3A5BD8D9082636C5BFE3E0B71ACEE551E24E3BD035887D2661ADA65AFF484	Parent revoked on July 11, 2020



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137	CN = Intertek Document Signing Authority, O = Intertek Group plc, C = GB	91F4860A68760E55F4F2158478E67F958BD637B7C0FB6093E9E904DFA46AC334	Revoked on December 01, 2020
138	CN = DexKo Global SMIME CA 2019, O = DexKo Global Inc., C = US	ABC86706C98D6BF67372F908EC01ADF631B191D733AE89F8343EB047B108144B	Revoked on October 18, 2020
139	CN = GlobalSign PersonalSign 2 CA - G3, O = GlobalSign nv-sa, C = BE	925EE7D5A22AD7FBE9BAB54D7C8D0B9A74F7E35A8AF6AF645E2E8C3519A7092F	Revoked on July 28, 2020

Timestamp CAs			
#	Subject	Fingerprint SHA-256	Additional information
140	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Timestamping CA 2020, O = GlobalSign nv-sa, C = BE	D86E6264D58E4CA78AF419740D8186EA8EC48F0C33B4B4D7CA027931D627B1C8	
141	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas R45 UK Qualified Timestamping CA 2020, O = GMO GlobalSign Ltd, C = GB	4C03F2D6941F2DFCA27EDC599F385E6CD3FFD0CC842F2CCB95B77580A2D1FF93	
142	CN = GlobalSign Qualified Time Stamping CA 2019, O = GlobalSign nv-sa, C = BE	74ABE5E5CCEB75491FF72C4CF325405D8ADBFE390E189CF430BA60E62798878E	



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143	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas ECCR5 Qualified Timestamping CA 2020, O = GlobalSign nv-sa, C = BE	E55A4FE881A4B0433674EC0E5CC261A99CCE3FEF649528C7218085BEDCD11512	
144	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas ECCR5 UK Qualified Timestamping CA 2020, O = GMO GlobalSign Ltd, C = GB	40382F8827B75D25705A6B3DA32533C5F4218BD7FA697CB0B300E8F47047FBC9	
145	CN = GlobalSign Timestamping CA - G3, O = GlobalSign nv-sa, C = BE	95C6A747DD0BC755A1941827E894B8083592241B792541E2EB1B30FB9B13F57F	
146	CN = GlobalSign Timestamping CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	BE33D1C57EBDDD927B57BDB604BE457B552FE568E7F3DCBA093C39ED1C30A239	
147	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Timestamping ECC CA 2020, O = GlobalSign nv-sa, C = BE	C2FEACD674878C7B0C2325A2ECED0A333DB7780A86DFEC3758100EFC0101C665	Revoked on July 08, 2020
148	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Timestamping CA 2020, O = GlobalSign nv-sa, C = BE	FD8B39230117A7E4D060E39489F4FE30662BAFE624A29E43B133615BABC63C20	Revoked on July 08, 2020

Appendix C - Locations

Location Identifier	Country	State / Province
BE-01	Belgium	Vlaams-Brabant
CN-01	China	Shanghai
IN-01	India	Delhi
JP-01	Japan	Tokyo
JP-02	Japan	Yamaguchi
JP-03	Japan	Tokyo
JP-04	Japan	Tokyo
JP-05	Japan	Tokyo
PH-01	Philippines	National Capital Region
RU-01	Russia	Moscow
SG-01	Singapore	Central Singapore
SG-02	Singapore	Central Singapore
UK-01	United Kingdom	Kent
UK-02	United Kingdom	Greater London
UK-03	United Kingdom	Greater London
US-01	United States	New Hampshire

Appendix D - Publicly disclosed incidents

#	Disclosure	Publicly Disclosed Link
1	GlobalSign: SSL Certificates with US country code and invalid State/Prov	Bugzilla Ticket Link
2	GlobalSign: ICAs in CCADB, without EKU extension are listed in WTCA report but not in WTBR report	Bugzilla Ticket Link
3	GlobalSign: Failure to revoke noncompliant ICA within 7 days	Bugzilla Ticket Link
4	GlobalSign: OCSP Status HTTP 530	Bugzilla Ticket Link
5	GlobalSign: Misissuance of QWAC Certificates	Bugzilla Ticket Link
6	GlobalSign: Failure to revoke 2 noncompliant QWACs within 5 days	Bugzilla Ticket Link
7	GlobalSign: Certificate issued with RSASSA-PSS public key	Bugzilla Ticket Link
8	GlobalSign: Failure to revoke key-compromised certificate within 24 hours	Bugzilla Ticket Link
9	GlobalSign: Incorrect OCSP Delegated Responder Certificate	Bugzilla Ticket Link
10	GlobalSign: Cross Certificate with non-conforming CABF Policy OIDs	Bugzilla Ticket Link
11	GlobalSign: Failure to revoke noncompliant ICA within 7 days	Bugzilla Ticket Link
12	GlobalSign: Use of Domain Validation Random Value for more than 30 days	Bugzilla Ticket Link
13	GlobalSign: Failure to revoke noncompliant certificates within 5 days	Bugzilla Ticket Link
14	GlobalSign: Certificates with RSA keys where modulus is not divisible by 8	Bugzilla Ticket Link
15	GlobalSign: Incorrect Jurisdiction of Incorporation information for Japan	Bugzilla Ticket Link
16	GlobalSign: SHA-256 hash algorithm used with ECC P-384 key	Bugzilla Ticket Link
17	GlobalSign: Empty SingleExtension in OCSP responses	Bugzilla Ticket Link
18	GlobalSign: Failure to provide a preliminary report within 24 hours	Bugzilla Ticket Link
19	GlobalSign: Invalid stateOrProvinceName value	Bugzilla Ticket Link
20	GlobalSign: RSA-1024 leaf certificate issued after 2013-12-31	Bugzilla Ticket Link
21	GlobalSign: Issuing CA certificate with wrong notBefore date	Bugzilla Ticket Link

GlobalSign Management's Assertion

GlobalSign NV/SA ("GlobalSign") operates the Certification Authority (CA) services as disclosed in [Appendix B](#) and provides SSL CA services.

The management of GlobalSign is responsible for establishing and maintaining effective controls over its SSL CA operations, including its network and certificate security system controls, its SSL CA business practices disclosure on its website, 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 GlobalSign's Certification Authority operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

GlobalSign management has assessed its disclosures of its certificate practices and controls over its SSL CA services. Based on that assessment, in providing its SSL Certification Authority (CA) operations at its locations as detailed in [Appendix C](#), throughout the period April 1, 2020 to March 31, 2021, GlobalSign has:

- Disclosed its SSL certificate lifecycle management business practices in the applicable versions of the Certificate Practice Statements and Certificate Policies, as stipulated in [Appendix A](#), including its commitment to provide SSL certificates in conformity with the CA/Browser Forum Requirements, 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 was established and protected throughout their lifecycles; and
 - SSL subscriber information was properly authenticated (for the registration activities performed by GlobalSign)
- Maintained effective controls to provide reasonable assurance that:
 - Logical and physical access to CA systems and data was restricted to authorized individuals; and
 - The continuity of key and certificate management operations was maintained; and
 - CA systems development, maintenance, and operations were properly authorized and performed to maintain CA systems integrity

And, for the CAs as enumerated in [Appendix B](#)

- 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.
- Disclosed the attached comments ([Appendix D](#)) that have been posted publicly in the online forums of the Bugzilla site, as well as the online forums of individual internet browsers that comprise the CA/Browser Forum.



In accordance with the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security, Version 2.5.](#)

GlobalSign
Leuven, Belgium

Signed by: Arvid Vermote
Function: Chief Information Security Officer

June 29, 2021



GlobalSign
GMO INTERNET GROUP

Appendix A – Certification Practice Statements and Certificate Policies in Scope

Certification Practice Statement	Begin Effective Date	End Effective Date
Version 9.3	31-Mar-20	07-July-20
Version 9.4	07-July-20	30-Sept-20
Version 9.5	30-Sept-20	29-Dec-20
Version 9.6	29-Dec-20	30-Mar-21
Version 9.7	30-Mar-21	

Certificate Policy	Begin Effective Date	End Effective Date
Version 6.3	31-Mar-20	07-July-20
Version 6.4	07-July-20	30-Sept-20
Version 6.5	30-Sept-20	29-Dec-20
Version 6.6	29-Dec-20	30-Mar-21
Version 6.7	30-Mar-21	



Appendix B – In-Scope CAs

The following CAs were in scope for the SSL Baseline Requirements and Network Security Requirements:

Root CAs			
#	Subject	Fingerprint SHA-256	Additional information
1	CN = GlobalSign Root CA, OU = Root CA, O = GlobalSign nv-sa, C = BE	EBD41040E4BB3EC742C9E381D31EF2A41A48B6685C96E7CEF3C1DF6CD4331C99	
2	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	CBB522D7B7F127AD6A0113865BDF1CD4102E7D0759AF635A7CF4720DC963C53B	
3	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	179FBC148A3DD00FD24EA13458CC43BFA7F59C8182D783A513F6EBEC100C8924	
4	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	2CABEAFFE37D06CA22ABA7391C0033D25982952C453647349763A3AB5AD6CCF69	
5	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	4FA3126D8D3A11D1C4855A4F807CBAD6CF919D3A5A88B03BEA2C6372D93C40C9	
6	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	CBB9C44D84B8043E1050EA31A69F514955D7BFD2E2C6B49301019AD61D9F5058	
7	CN = GlobalSign Secure Mail Root R45, O = GlobalSign nv-sa, C = BE	319AF0A7729E6F89269C131EA6A3A16FCD86389FDCAB3C47A4A675C161A3F974	
8	CN = GlobalSign Secure Mail Root E45, O = GlobalSign nv-sa, C = BE	5CBF6FB81FD417EA4128CD6F8172A3C9402094F74AB2ED3A06B4405D04F30B19	
9	CN = GlobalSign Code Signing Root R45, O = GlobalSign nv-sa, C = BE	7B9D553E1C92CB6E8803E137F4F287D4363757F5D44B37D52F9FCA22FB97DF86	



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10	CN = GlobalSign Code Signing Root E45, O = GlobalSign nv-sa, C = BE	26C6C5FD4928FD57A8A4C5724FDD279745869C60C338E262FFE901C31BD1DB2B	
11	CN = GlobalSign Document Signing Root R45, O = GlobalSign nv-sa, C = BE	38BE6C7EEB4547D82B9287F243AF32A9DEEB5DC5C9A87A0056F938D91B456A5A	
12	CN = GlobalSign Document Signing Root E45, O = GlobalSign nv-sa, C = BE	F86973BDD0514735E10C1190D0345BF89C77E1C4ADBD3F65963B803FD3C9E1FF	
13	CN = GlobalSign Timestamping Root R45, O = GlobalSign nv-sa, C = BE	2BCBBFD66282C680491C8CD7735FDBB7A8079B127BEC60C535976834399AF7	
14	CN = GlobalSign Client Authentication Root R45, O = GlobalSign nv-sa, C = BE	165C7E810BD37C1D57CE9849ACCD500E5CB01EEA37DC550DB07E598AAD2474A8	
15	CN = GlobalSign Client Authentication Root E45, O = GlobalSign nv-sa, C = BE	8B0F0FAA2C00FE0532A8A54E7BC5FD139C1922C4F10F0B16E10FB8BE1A634964	
16	CN = GlobalSign Timestamping Root E46, O = GlobalSign nv-sa, C = BE	4774674B94B78F5CCBEF89FDDEBDABBD894A71B55576B8CC5E6876BA3EAB4538	

Other CAs

#	Subject	Fingerprint SHA-256	Additional information
17	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	445EEC78BC61215044A0379656AA2D5DB5E42F76CB70B8D14C2077AA943D4EBB	Cross-certificate
18	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	33EF151EFB08D1C44FB85CC3F23EC6873014E9F881691BD4938B7F251580B694	Cross-certificate

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19	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A5E33C28E3013A71F5F760AE3B16595090043D2EC5209EC52903C4FBAD258DAD	Cross-certificate
20	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	F349954E8FB6D44011BCB789D97D9A2CB2032BD5F0B598D1FB8A099F5848D523	Cross-certificate
21	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	C84E1378B974A991ACDCDD733421E3061E6FA21A0491C8902BAFDE3855E0063E	Cross-certificate
22	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	1DF6054D6641404633641BB5FA3742FDA7D075E2514840AB61E00CCBBB7D341D	Cross-certificate
23	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A63C1398B5F8DD2D432FBE4C2C19142BEA6D5D0221FAE794718AE7597ACCA96D	Cross-certificate
24	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	3F319B2AFED4A0F75127BE59925550D0428E68763A09E273EB6A9FF8D18DBB5B	Cross-certificate
25	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	DDA8DA736187D76F4F0ED5A5F667B54D99A98AE06091D0E3A01714E9221695AD	Cross-certificate
26	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	0F1554C2FD591B0256A608E1C136A837E7A6E041561EE08A911B2AFDCD3C6C1B	Cross-certificate
27	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	45CB1D874CB03BD5C5B6E079C8FC29E51521EE5628486301964A41F94BA59F88	Cross-certificate
28	CN = GlobalSign Client Authentication Root E45, O = GlobalSign nv-sa, C = BE	F375270F2F216B9F62CC31795619F6FE1943DF65D1B198D3341170A40725BFC7	Cross-certificate
29	CN = GlobalSign Client Authentication Root R45, O = GlobalSign nv-sa, C = BE	3DA135562E942799D547CA72EA57D7AC03791B24D4E24BA2E1E1331E8A1678F0	Cross-certificate
30	CN = GlobalSign Code Signing Root E45, O = GlobalSign nv-sa,	E506B72BB97A14D24959A0D1A977E1ACDB6155D68FB4846885E544D147E7D577	Cross-certificate

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	C = BE		
31	CN = GlobalSign Code Signing Root R45, O = GlobalSign nv-sa, C = BE	05E0634B1FEB98AE6B4CF101728CF9D5A1793CEACE301506FF332B22D4CF08EB	Cross-certificate
32	CN = GlobalSign Code Signing Root R45, O = GlobalSign nv-sa, C = BE	6385DDCD1B768648267EE5122897CA085FC45D6030ECB55098F583AF152AA4A6	Cross-certificate
33	CN = GlobalSign Secure Mail Root E45, O = GlobalSign nv-sa, C = BE	5B87841E80AAFE877804E56694473DCA8BB9F1FF4FFCF885A3DAFD24463FCB64	Cross-certificate
34	CN = GlobalSign Secure Mail Root R45, O = GlobalSign nv-sa, C = BE	5268C94573AF66BA5A3DE979F2048DE43BD4B68AF0B73A2D639159FAFE637F69	Cross-certificate
35	CN = GlobalSign Timestamping Root R45, O = GlobalSign nv-sa, C = BE	6AFBC07C724C6F75C7743392F32BF5780BD5DD39268544D4882E7AEC1ADD0282	Cross-certificate
36	CN = GlobalSign Root CA, OU = Root CA, O = GlobalSign nv-sa, C = BE	6ADD368DA35458A09EDF880D0570E863ADC8507D49406B4D97E44E53BC9308C9	Cross-certificate
37	CN = GlobalSign, OU = GlobalSign Root CA - R3, O = GlobalSign	2510E248903F01B63F9398179E5506979F0EF507E4174B657AF6F770A417EC94	Cross-certificate
38	CN = GlobalSign, OU = GlobalSign ECC Root CA - R5, O = GlobalSign	0AED971671F8FE67EBA28817550AFEE946FDC2C52250003A6CFB87BC5AAD8A04	Cross-certificate
39	CN = GlobalSign, OU = GlobalSign Root CA - R6, O = GlobalSign	75BFB522CC4B58DA22EE488517C5F2EFF92576D20F595F9ACE483A036FC1BB6B	Cross-certificate
40	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	C94FEDDA4E8608908580BC7F87B434E03BB262E42F64C63820A8F50FB17C1CEC	Cross-certificate
41	CN = GlobalSign CA for AATL -	AC0AB963BB5F3DA05FBC8687F98C2B6EA0BB499E6118C1A9136B1BC7C3C71A6B	

	SHA384 - G4, O = GlobalSign nv-sa, C = BE		
42	CN = GlobalSign CA for AATL - SHA256 - G2, O = GlobalSign nv-sa, C = BE	AA89C466E9D06882C0DAAF72BE0F0FBCFE7C1EF2AAAD190640C4AD44F5517F34	
43	CN = GlobalSign PersonalSign Partners CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	118262C2088EE1528E20D836D2070854707C0D8F8E80FBE396F9ECD4B9141B5B	Revoked on September 30, 2020
44	CN = JCAN Sub Root CA0, OU = JCAN Sub Root CA0, O = JIPDEC, C = JP	8FA602FFF590DF583A36D509C265F6C3EA8C34A9D56CFF86285FBFE9936BFC55	Revoked on December 31, 2020
45	CN = GlobalSign CA 2 for AATL, O = GlobalSign nv-sa, C = BE	A13820A7387BDFAD204463EFA9216416639B7E73C31DC2F499F53FCD4D4D25C4	Revoked on December 31, 2020
46	CN = GlobalSign CA 3 for AATL, O = GlobalSign nv-sa, C = BE	C01963059070CB2306F4B486CCF1503359209E98499C810C2B49E26E31A4BD74	Revoked on December 31, 2020
47	CN = GlobalSign PersonalSign 1 CA - G3, O = GlobalSign nv-sa, C = BE	254BE91C1ABCB28DB5E4D675A29A1E788460B06591F1BA8497CBD17837E27ABE	Revoked on June 30, 2020
48	CN = GlobalSign PersonalSign 2 CA - G3, O = GlobalSign nv-sa, C = BE	64E71601F7050921DEE039C03493615E488F12FC3FCECBADF438AA467EE1D41A	Revoked on June 30, 2020
49	CN = GlobalSign PersonalSign 3 CA - G3, O = GlobalSign nv-sa, C = BE	C228D93DBE5536A120AC24ED934467BAD7292F8B7EB202634B17070A89C5FE9B	Revoked on July 30, 2020
50	CN = JCAN Public CA1 - G3, OU = JCAN Public CA1 - G3, O = JIPDEC, C = JP	91E98D0947C125494EAAF2A38D087BE0781AF20D8A14EE8C39FECDC482CF5F82	Revoked on December 31, 2020
51	CN = NAESB Issuing CA - SHA384 -	0986B5A1C7314EFB04FB648B9E2B57CF4842FD1D4345D28E52094C90A9FECBFE	Revoked on September 30, 2020

	G3, O = GMO GlobalSign Inc., L = Portsmouth, ST = New Hampshire, C = US		
52	CN = GTS Root R1, O = Google Trust Services LLC, C = US	3EE0278DF71FA3C125C4CD487F01D774694E6FC57E0CD94C24EFD769133918E5	Google Cross-certificate *

* The cross-signed certificate was signed with a key controlled by GlobalSign, and the certificate is subject to GlobalSign's CP/CPS. While the cross-signing establishes a trusted relationship, the cross-signed certificate is not controlled by GlobalSign.

DV SSL Issuing CAs			
#	Subject	Fingerprint SHA-256	Additional information
53	CN = GlobalSign Domain Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	09BC1B137C031239EF788673E94EB17F5F3ECAB07D3ADBFB485E75ABFAAF3B9A	
54	CN = Soluti CA - DV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	5C452334D9C9C9A2EA42CC77A7165E1795EE9D84EB70CB784B47EA9D92A582D9	
55	CN = Valid Certificadora Digital AlphaSSL CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	04DE47A9CDD3091CFC5EF6AAA3B7D4B53E13C4D4DC02364F6C0B408742EC3C76	
56	CN = Valid Certificadora Digital SSL DV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	FCF26FBC1B2A25A76AB4EA92B2CBEF367E0131091C802DA49898F78AE54B30F8	
57	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	8C2410F76B149CA062B420AB611B6BF0A06E6E799A29587E4D4EC16D0537B7EA	
58	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa,	EE793643199474ED60EFD8CCDE4D37445921683593AA751BBF8EE491A391E97	



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	C = BE		
59	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	BFDF4CF3F143AD0DB912D8AB3A7C12F617B9EA60CE8B1F4E44F74270FB21B19B	
60	CN = GlobalSign Atlas ECCR5 DV ACME CA H1 2021, O = GlobalSign nv-sa, C = BE	E7757BB0C4942ADC108D092A17B812B1043E06A094DD5E214920325556FC6924	
61	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	72132ECF2F8C75B5F214C00ED14562E14912B7F2F4D2633180F3E4918980FEC4	
62	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	6F335DD7CD4AAA1D9140F290E9E7B3498A7CC35A244AA300E146BA2D9D02B960	
63	CN = GlobalSign Atlas R3 DV ACME CA H1 2021, O = GlobalSign nv-sa, C = BE	70F5C63C4F112837AB99870B0ECB5D722EEA0B0D0DDB9320B98B99B9BD137866	
64	CN = GlobalSign Atlas R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	B65FE6A1BF2D52FF68B7D3E9D0F06B300A1C3F248309B70405CA7BDEC054BDDD	
65	CN = GlobalSign Atlas R3 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	59F5FF92B608A0119FF1DD7C603E0EB16F4FEAD9D4717AC3BC62D286AE399CDA	
66	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	37D080A5E9A526663E56EE20DE4BD9F7952DACC341491439080167AD5DD18CAC	
67	CN = GlobalSign GCC R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	762538439509C411C437D3C567563E1378671281FC4A1464ADD031870843676E	
68	CN = AlphaSSL CA - SHA256 - G2,	5A817EADA4AD78734EBB2CF674352D97F4352290C40EAF10E764B1EAC075B0E6	

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	O = GlobalSign nv-sa, C = BE		
69	CN = AlphaSSL CA - SHA256 - G2, O = AlphaSSL	933E4A2D8DB1FF9FF0E508EA7F1637E074F660FE6F365A2233DFC2B52C889D98	
70	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	669E7727A92BE72D9718E16922DC1BC1492B1AF33FA4793E68D8778F19A2EBE0	
71	CN = GlobalSign HV ECC DV SSL CA 2018, O = GlobalSign nv-sa, C = BE	4B0D1392D39157353207A64CCB14683DDE9D2CED1FB58B16E038BE5707C27813	Revoked on July 08, 2020
72	CN = GlobalSign HV RSA DV SSL CA 2018, O = GlobalSign nv-sa, C = BE	54C37A8E853FD1D6378D378B939307EC321A31CC1A5A89E7180633BC13F18762	Revoked on October 21, 2020
73	CN = GlobalSign RSA DV SSL CA 2018, O = GlobalSign nv-sa, C = BE	9E898ED03FA46969690DAD73C7296675045FF9B5A0100A399BEB8435A98F5185	Revoked on January 20, 2021
74	CN = Soluti CA - DV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, L = Goiânia, ST = Goiás, C = BR	A74FFFF528471905385073ADF3997019B26F4FAF24BCE9102A272E7A4484E4BC	Revoked on July 11, 2020
75	CN = AlphaSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	4C013B8854689CB6626CC087B4D4FCCA45104E2D73BFADF33A6979ED124B7837	Revoked on December 09, 2020
76	CN = SHECA DV Secure Server CA, ST = Shanghai, L = Shanghai, O = Shanghai Electronic Certificate Authority Center Co., Ltd., C = CN	393B8B15CABC3886FB2E416495D63C8BADD8DCAF87552076C8A0A9637C24DE47	Parent revoked on July 11, 2020
77	CN = Valid Certificadora Digital AlphaSSL CA 2018, O = VALID CERTIFICADORA	385135AB18DD190A03BCC0601ACA6F83CEA366642791EBE0A2FDB059C2F7750A	Parent revoked on July 11, 2020

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	DIGITAL, OU = VALID AlphaSSL, L = SÃO PAULO, ST = SÃO PAULO, C = BR		
78	CN = Valid Certificadora Digital SSL DV CA 2018, O = VALID CERTIFICADORA DIGITAL, OU = VALID SSL DV, L = SÃO PAULO, ST = SÃO PAULO, C = BR	62B48F51E5868676FD79B9DD9DB98BA928494BA734403C583393C42CE00AD448	Parent revoked on July 11, 2020
79	CN = Cloudflare ECC DV CA, O = Cloudflare, Inc., L = San Francisco, ST = CA, C = US	0F4517487FD0A8BA3194A6122450A7B32C987FFF16F2D4AF54E6EDB6FED68E08	Revoked on September 16, 2020
80	CN = Cloudflare RSA DV CA, O = Cloudflare, Inc., L = San Francisco, ST = CA, C = US	D439F88E8F2F80A306F910DCDE548D71BBFD99A85FC7034EFB610E3749550932	Revoked on September 16, 2020
81	CN = AlphaSSL CA - G2, O = AlphaSSL	1DCA65B86A57336BA5AFB7214A36F7D6EDE698EB4F03387CB3AD6BBD3A93BAB6	Revoked on December 09, 2020
82	CN = GlobalSign Domain Validation CA - G2, O = GlobalSign nv-sa, C = BE	E87EA2BED6C6203B2C55B00FE49D2876FBA64702105AEB748B865A918B5C7D27	Revoked on December 09, 2020
83	CN = GlobalSign Domain Validation CA - G2, O = GlobalSign nv-sa, C = BE	BA0E2B6BF2C98ED2C3B1C1C08A1BBDCAF9270AC528A3194301DD2A0B6B67B9B3	Revoked on December 09, 2020
84	CN = GlobalSign Domain Validation CA - G2, O = GlobalSign nv-sa, C = BE	4E153A588877688F1A0C103A084C2EDB3AD1D8C480CF03D8AB6FED47D9204370	Revoked on December 09, 2020
85	CN = GlobalSign Atlas R3 AlphaSSL	1ABC5AD5BC3911A5B4A91E42BBA3212E2AA3DC80147EFE1D49572E4BE0532633	

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	CA H1 2021, O = Globalsign nv-sa, C = BE		
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OV SSL Issuing CAs			
#	Subject	Fingerprint SHA-256	Additional information
86	CN = GlobalSign Organization Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	699D54B7482A5D329331EA0415CC2EDCD60FDA01D19E71D054196BCE0677735C	
87	CN = Prodrive Technologies B.V. OV SSL Issuing CA, O = Prodrive Technologies B.V., C = NL	580BB3AB127F5E13E940AE7365E3C69A62AD204D7FDFA451592FE7C47DC02A95	
88	CN = SHECA OV Secure Server CA, O = Shanghai Electronic Certificate Authority Center Co., Ltd., C = CN	AD7B58C3C5D9586BE5B62799C2792C4111C9852A96F7B0607221265713957E1C	
89	CN = Soluti CA - OV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	AB74B1411AD23E2227FB88A2A9304A1A45A5C4840B3635F1036A46E8374279AC	
90	CN = Valid Certificadora Digital SSL OV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	6B4F9DE13678846730D50E914A08E7BE9B742CA3A0A7D5393367830B93A6F553	
91	CN = ATT Atlas R3 OV TLS CA 2020, O = ATT Services Inc, C = US	DC2728331312E75C4D7B442F3BDDA790CB77A9D6AC854D5BCE18AC43CA59909A	
92	CN = CrowdStrike GCC R3 TLS OV CA 2020, O = CrowdStrike Inc., C = US	78CB512DE48CEDCD7134DF57C973C1E1A07692B8F542A44ACEBB8BB776D55D59	
93	CN = DPDHL Global TLS CA - I5, O = Deutsche Post AG, C = DE	32A4E554E363116FE48E22F01DAC1736752A71C720F99F462D565022D3BAD07D	

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94	CN = GlobalSign Atlas ECCR5 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	2EB8A1317288F08233E6883CEBE67EA6A0989E22ACA42C58D59F5A834E02C513	
95	CN = GlobalSign Atlas R3 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	A6032CC352F1E2E3628E162A3047BC7D647E2D601A2C0F26CAA9AAAF7A54239C	
96	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	4B7334E1D8999822BAFA8FF6888125389B18A4E5AB26FFA624C7F68FDC81F0CB	
97	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	E0C2EBD1F6BAD4FEAAE31A3107E69ABEE902DB38B9DFBE33F0570BDA3494C20A	
98	CN = GlobalSign ECC CloudSSL CA - SHA384 - G3, O = GlobalSign nv-sa, C = BE	B0CD6AE7B9E20EC5F830FEE01F666D5D90E6E229D06BC46A30ACCEDFEC889648	
99	CN = GlobalSign ECC OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	87C71553445EB3C33C3E0710711B99E9C7773F04D91AC38A9F4C082EE24101EA	
100	CN = GlobalSign ECC384 SSL CA - G3, O = GlobalSign nv-sa, C = BE	DC6C44AC8A3CD5C3451273F4431526B2EF666062EE763258A928F60BD08E39FE	
101	CN = GlobalSign Organization Validated CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	1E1741A12EB8DA2BD76EA96C04F520359839710F620E80952F48DD0240A12CD8	
102	CN = GlobalSign Organization Validated ECC CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	65EEC0CC6C970CC1CD73659115DC8D904E6F12E6DC8FD4DDA39D54CB30224780	
103	CN = GlobalSign Organization Validation CA - SHA256 - G2,	1C9737E968AD9DFF8D8D7FCF996A144BB97851A19011A0190C943CAE8D43CFE0	

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	O = GlobalSign nv-sa, C = BE		
104	CN = GlobalSign RSA OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	B676FFA3179E8812093A1B5EAFEE876AE7A6AAF231078DAD1BFB21CD2893764A	
105	CN = ICPEdu, O = Rede Nacional de Ensino e Pesquisa - RNP, C = BR	D5E84D9A677E6CDA72DD1C1BA7AD8DDFC25EFAC220C8A9571CEC27C107555702	
106	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	74EF335E5E18788307FB9D89CB704BEC112ABD23487DBFF41C4DED5070F241D9	
107	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	0B339212D7CFF17A2C59E35669B58E77350133750A78DA9404770EDD470DEF76	
108	CN = RNP ICPEdu OV SSL CA 2019, O = Rede Nacional de Ensino e Pesquisa - RNP, C = BR	88FC18BD071BE1FBC53FFBC801F03F5B2C4DA87BBA0C098E2B4808F19EAB05FE	
109	CN = Trusted Root TLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	91F19CE503C9FE7FF9587D8EFBEF7315AAEE77DC2D14526126493B4AD6FE801F	
110	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	E155EBF96334E79AE2E287D55CFC9185DE24935A653F13C5BA05AFF818771BC6	
111	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	C2E4236DB1B757B51B77921388EFA823E6A600FD4BDA30B63AB77886F25618B7	
112	CN = ATT Organization Validated CA 2019, ST = Texas, L = Austin,	7AA45D6F5B14DAB1C6844C19C2804E14B5811E6EDE1F02B0AEF065A7B359C68F	Revoked on September 30, 2020

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	OU = ATT Business Wi-Fi Services, O = ATT Services Inc, C = US		
113	CN = DPDHL Global TLS CA - I4, ST = Nordrhein-Westfalen, L = Bonn, O = Deutsche Post AG, C = DE	94C663E9EA5C27EE4F64127F9B425863E991A9E156C07DF1A00803AE31764162	Revoked on September 30, 2020
114	CN = CrowdStrike OV SSL Issuing CA 2020, O = CrowdStrike Inc., C = US	AE03B9AD17106A28785830B1DCD636797C4C64D81CB8D161595DBAF83433E64C	Parent revoked on July 11, 2020
115	CN = Trusted Root CA G2, O = GlobalSign nv-sa, OU = Trusted Root, C = BE	6E32A35B599E9087BB1AB35CE73022EC2E26AF34BE388919419C95700CD8E7FB	Revoked on July 11, 2020
116	CN = Trusted Root CA SHA256 G2, O = GlobalSign nv-sa, OU = Trusted Root, C = BE	01FD73EF5E70F526FC9C11F65FE2EE6F7125B3693949227FFD8E459E583C458A	Revoked on July 11, 2020
117	CN = Beame.io CA 2, O = Beame.io Ltd, L = Tel Aviv-Jaffa, ST = Tel Aviv, C = IL	CF6E6B82C997CB5CC1A55066AF5F60CAAC77594EB106FB4D498BC50ECDEB8A3A	Parent revoked on July 11, 2020
118	CN = RNP ICPEdu OV SSL CA 2019, ST = Rio de Janeiro, L = Rio de Janeiro, OU = Gerencia de Servicos (GSer), O = Rede Nacional de Ensino e Pesquisa - RNP, C = BR	42CFDDA6F660B8E5B4C1C411965A4519312559E3262F8DB69D2DAE17B26B3BA3	Parent revoked on July 11, 2020
119	CN = Soluti CA - OV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, L = Goiânia, ST = Goiás, C = BR	E6E929C8456C014E8DA733ACE4E9814552272B81176050A13EA45A823200B14B	Revoked on July 11, 2020

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120	CN = SHECA OV Secure Server CA, ST = Shanghai, L = Shanghai, O = Shanghai Electronic Certificate Authority Center Co., Ltd., C = CN	77EAC476453CB732257FF166A5EBD1656CB1F673B68E28DF41774133979FA2A4	Parent revoked on July 11, 2020
121	CN = Valid Certificadora Digital SSL OV CA 2018, O = VALID CERTIFICADORA DIGITAL, OU = VALID SSL OV, L = SÃO PAULO, ST = SÃO PAULO, C = BR	600E97601B0BBC5F056F04EEF671EF580F2A8583C6D2D3FAD401B9D820AA8836	Parent revoked on July 11, 2020
122	CN = Prodrive Technologies B.V. OV SSL Issuing CA, O = Prodrive Technologies B.V., OU = IT Services, L = Son, ST = Noord-Brabant, C = NL	398B1499CE00A25F61CAC3D8BEE571601880823EF288BE9772A4D13398422595	Parent revoked on July 11, 2020
123	CN = GlobalSign Organization Validation CA - G2, O = GlobalSign nv-sa, C = BE	A66422C4E449D465CB023A7FC7633DE8ED1816985CA41093FC96B3663ED7A43B	Revoked on December 09, 2020
124	CN = GlobalSign Organization Validation CA - G2, O = GlobalSign nv-sa, C = BE	082B243047BF00F584401F538B504BAE9EC060E007FFF28B159C08417068654E	Revoked on December 09, 2020
125	CN = Beame.io CA 1, O = Beame.io Ltd, L = Tel Aviv-Jaffa, ST = Tel Aviv, C = IL	43263913B483EB6F0B020540F8F7BE0A1D7C9CE7652FE0FB4743D7213393551C	Parent revoked on July 11, 2020
126	CN = ICPEdu, O = Rede Nacional de Ensino e Pesquisa - RNP, OU = Gerencia de Servicos (GSer), L = Rio de Janeiro,	EACBA6C96598B4A41FD53D69AB9ED9FB9B1381154C453456720C174FFE576D1D	Parent revoked on July 11, 2020

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	ST = Rio de Janeiro, C = BR		
127	CN = Beame.io CA 1, O = Beame.io Ltd, C = IL	0D36F6A2299E9E268F94ADB49E57E6717D713C3F47B889C40DCDC8CFE940CB80	
128	CN = GlobalSign Organization Validation CA - G2, O = GlobalSign nv-sa, C = BE	A6233ECB77053F72937E894372A601ED3ABEA90CC3B5D89512720BF3FFCBDC9D	Revoked on December 9, 2020

EV SSL Issuing CAs

#	Subject	Fingerprint SHA-256	Additional information
129	CN = Soluti CA - EV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	11FBA4A7EE579C70E1D57F9F9B6A8C209E1219C4F1D3846F83FFCE74E9E5E2CE	
130	CN = Valid Certificadora Digital SSL EV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	8AEFE8D88BE87A30B19C60C5BD0FB5E9FBCD15D5582D5FC9A7499578D68DCEC0	
131	CN = GlobalSign Atlas E46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	364DF25CC88F6FB0202C02CD9B8EA02DFE8AC02341EFF5A9DFFC5BE159ED5991	
132	CN = GlobalSign Atlas R46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	E1E15D289697AF3285BF34112A3E60BC11C0C8122DD2B9B3420AB2E5E57883CA	
133	CN = GlobalSign Atlas R6 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	BCE7091355D2417A37F8CFE2AC8F17C2748888BA0EEA90000FC980ECFC2D041F	
134	CN = GlobalSign ECC EV SSL CA 2018, O = GlobalSign nv-sa, C = BE	8F19FFE02FC795ED70765D1436ADDF772FE0F0773DA436EDBDB42A2E30E2E828	

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135	CN = GlobalSign ECC384 EV SSL CA - G3, O = GlobalSign nv-sa, C = BE	15549187490314F5177641F0BEB32634AA1230EB2CF2C28AD9C73914FB18ABA0	
136	CN = GlobalSign Extended Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	AED5DD9A5339685DFB029F6D89A14335A96512C3CACC52B2994AF8B6B37FA4D2	
137	CN = GlobalSign R6 RSA EV SSL CA 2019, O = GlobalSign nv-sa, C = BE	57264B82A864DBA1C11EF3F80ABB94CAC3660662B0C22F571FF993B3FBCF76FB	Revoked on July 08, 2020
138	CN = GlobalSign ECC EV SSL CA 2019, O = GlobalSign nv-sa, C = BE	0D3176C58F321AA34C57C8DF7C17D1F4E76C797EC116C9F1D697748ED1FCE7D9	Revoked on July 08, 2020
139	CN = GlobalSign RSA EV SSL CA 2019, O = GlobalSign nv-sa, C = BE	0D6E46784F3B694E9C7506786417BC6F87F9D2F73D19B5E8081612B21137B766	Revoked on July 08, 2020
140	CN = Soluti CA - EV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, L = Goiânia, ST = Goiás, C = BR	BB170B39784D02784325CEA938D92314C617DDE808C867E33E2AD161D54B3E8A	Parent revoked on July 11, 2020
141	CN = SHECA EV Secure Server CA, ST = Shanghai, L = Shanghai, O = Shanghai Electronic Certificate Authority Center Co., Ltd., C = CN	147C447FEEB86202B503314FCAF0036BEAAEF437C39B56B358EC446A9D20387F	Parent revoked on July 11, 2020
142	CN = GlobalSign EC Administration CA2, O = GlobalSign nv-sa, C = BE	C883B3ECC6AC0DEE75CDD585E73A209287BC0C9F9D79D488860F63E2EA8A7D2C	Revoked on December 09, 2020
143	CN = Valid Certificadora Digital SSL EV CA 2018,	27FA1BE4F4B56A142A47A56A7E94B72502059B4022E4623E748CA1EF151CF222	Parent revoked on July 11, 2020

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	O = VALID CERTIFICADORA DIGITAL, OU = VALID SSL EV, L = SÃO PAULO, ST = SÃO PAULO, C = BR		
144	CN = GlobalSign Extended Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	5BB2382D20E09AE56B4F3A5157838F7BAE49E42E3CE53484D66EEB2C0747EF4A	Revoked on January 20, 2021
145	CN = GlobalSign R6 Admin CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	C5B679106958152F83FB5886DDC41F0785193EF67C6975BE3E509F17F29B7A86	Revoked on July 08, 2020
146	CN = GlobalSign GCC E46 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	AA76C50166CD1B865B78D795C2C87A48D4A6229E65F8B38DBD005154EB2ED2DC	
147	CN = GlobalSign GCC E46 UK EV QWAC CA 2020, O = GMO GlobalSign Ltd, C = GB	8814C0688344DE0F21AD1BD076E9F3248AF430E4FE760952E3A150DFAEDCE016	
148	CN = GlobalSign GCC R3 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	D4A5941C7141ED1949A0C6CE9DD45A0AB94DC337902EB0A1209852738EEBE854	
149	CN = GlobalSign GCC R3 UK EV QWAC CA 2020, O = GMO GlobalSign Ltd, C = GB	A33017D9DF494C09D58709107403AEE461B9461E81BA395C28C36693C27D1986	
150	CN = GlobalSign RSA EV QWAC CA 2019, O = GlobalSign nv-sa, C = BE	EDC734C501501DC7A27448FA02C74931F8578BF297B173F34B841E82C6691926	Revoked on February 24, 2021
151	CN = GlobalSign GCC E5 EV QWAC CA 2021, O = GlobalSign nv-sa, C = BE	0DD2C7E0AF8200F49F4192A89AE634D4CE41B80C63B0629CC68E538C316F020E	

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152	CN = GlobalSign GCC E5 UK EV QWAC CA 2021, O = GMO GlobalSign Ltd, C = GB	0966A88729C938F9DCD65BB3C63B608618EAE5183ED1FED752B323089687A20E	
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Timestamp CAs

#	Subject	Fingerprint SHA-256	Additional information
153	CN = GlobalSign Partners Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	2A015531A5F3A4CE589BD853C71DD069587322F574D85C9C9B9F9DF8F86C075E	
154	CN = GlobalSign Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	F642418E4D0C63DEC785C960EFA68BA745F38851744EF81F225CB89305314D50	
155	CN = GlobalSign Partners TSA CA for AATL, O = GlobalSign nv-sa, C = BE	7E8F914119BB1090D6204908E5AE1F40BE24C1491CD7D5CFB6A93618CBC00FD9	
156	CN = GlobalSign TSA CA for AATL, O = GlobalSign nv-sa, C = BE	4D8EB49380EC72AC9FDF21FE1C6DB2E9490C76BEADD1F7B528C3CCD272C8FE28	
157	CN = GlobalSign Timestamping CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	9BF9496777D14425ED0086C1BB2C0707B62A61C194C5162E4F07637AFF166B76	
158	CN = GlobalSign Timestamping CA - R3, O = GlobalSign, OU = Timestamping CA	61C1067083AE044EF1D649CE590BBF09D9D739E025DA8D195F71CFAAD6EBAE69	
159	CN = GlobalSign Timestamping CA - G2, O = GlobalSign nv-sa, C = BE	C977923C771E1A66C925A2B6F501732E678DC9887AFE6BFAAC039D1D9A71F0EC	
160	CN = GlobalSign Timestamping CA, O = GlobalSign, OU = Timestamping CA	D0CAE6947BC77F0B495CA808D6CDE685FCD20225E1E530B635B113ED40728EF3	

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The following CAs are not capable of issuing working publicly trusted SSL/TLS certificates intended to authenticate servers on the Internet (i.e. certificates containing the id-kp-serverAuth OID (1.3.6.1.5.5.7.3.1) in the extendedKeyUsage extension) and they were in scope only for the Network Security Requirements:

Root CAs			
#	Subject	Fingerprint SHA-256	Additional information
1	CN = GlobalSign IoT Root R60, O = GlobalSign nv-sa, C = BE	36E80B78775DDA9D0BAC964AC29D5A5EC4F3684E0C74445E954A191C2939B8E0	
2	CN = GlobalSign IoT Root E60, O = GlobalSign nv-sa, C = BE	43ED443C1F0CD46C9914B4272C24DC42CF6FE62B4AAB37585878A26D882AE4CB	

Non-EV Code Signing Issuing CAs			
#	Subject	Fingerprint SHA-256	Additional information
3	CN = GlobalSign GCC R45 CodeSigning CA 2020, O = GlobalSign nv-sa, C = BE	74D499A72D0BA5D4DDEC55805ECF157C891E45E5D490A19DC5FD4476954E774B	
4	CN = GlobalSign CodeSigning CA - G3, O = GlobalSign nv-sa, C = BE	4047C9D69260C07213BCB8608A7EC5E2838A56B79F67847812EAC0778D0D27F1	
5	CN = GlobalSign CodeSigning CA - G2, O = GlobalSign nv-sa, C = BE	FFFE077503FD72F0E5338B0A7B4E218E7D1FF82E493E7E852AE51AA1C7585D17	
6	CN = GlobalSign CodeSigning CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	BE40813869AB27A071D12AD6A8830583EBC3B618E3F2346359F4B11A1C9434EE	
7	CN = GlobalSign CodeSigning CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	FB54EEA9BCE8E9EA9782154F3D414277FB709F49B947D73978AC278546C2CE03	

EV Code Signing Issuing CAs			
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#	Subject	Fingerprint SHA-256	Additional information
8	CN = GlobalSign GCC R45 EV CodeSigning CA 2020, O = GlobalSign nv-sa, C = BE	CD0E144DD10BAC221FE2FB901058D16450A0578B3C47C770908F2E9ADA28EF12	
9	CN = GlobalSign Extended Validation CodeSigning CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	1E864278C20881B671C0C6D2E14B61150AD1F13CF92C6EC14B550DCBC47E1541	
10	CN = GlobalSign Extended Validation CodeSigning CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	DD038E87E0B4D2C369680D3DE78638AB39FC1D7E50632996921101768DB8D4D8	

Other CAs			
#	Subject	Fingerprint SHA-256	Additional information
11	CN = CBMM GCC R3 SMIME CA 2020, O = COMPANHIA BRASILEIRA DE METALURGIA E MINERACAO, C = BR	F6F9C3FC5636C7E800EB1BDDFD33AAF98495C130DBF48F9BAF4AB7A1F665DFB4	
12	CN = CRB Group GCC R3 SMIME CA 2020, O = CRB Group, Inc., C = US	814179F36A71529C915C540261E44638E37A4FCE879740F0CE7351A8E9291A03	
13	CN = DexKo Global GCC R3 SMIME CA 2020, O = DexKo Global Inc., C = US	D531F24E655D1F28A344BD3E0E9B141CE88A4139C61CB0CF5184EF2E2B9531A7	
14	CN = DSigner GCC R3 SMIME CA 2020, O = DSIGNER, SOCIEDAD ANÓNIMA, C = GT	3FA4A9B65FDF6876FE668DFECC434932EBC254FD741119FC432A5989A085F320	
15	CN = European GNSS Agency Atlas R45 SMIME CA 2021, O = European GNSS Agency (GSA), C = CZ	F4EFE27C6B037747B3A89E23EE23C1B70A24DEB53B2E02F423BB0F73E1822267	



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16	CN = EY LLP GCC R3 SMIME CA 2020, O = Ernst & Young LLP, C = GB	3A093122808FFFA440E19824D0BC7CD6B01D8D8277F7F42FA16E80A0205D4A7A	
17	CN = FIFCO Atlas R45 SMIME CA 2020, O = FIFCO, C = CR	80642AAC7C782BCDB0C3F6F385488F9BE3BB2DE30B863009E74B29F026C9EAE6	
18	CN = GlobalSign Atlas R3 SMIME CA 2020, O = GlobalSign nv-sa, C = BE	479D6A0980722966237F06C41842EE796B55D4D00A0D663B785D48433A29156E	
19	CN = GlobalSign Corporate IT Atlas R45 SMIME CA 2021, O = GlobalSign nv-sa, C = BE	7C4E78C74B4818D17EF8B8AB91E32DB4F7E3CE84A0C5E47AAA62AE39FAB60D01	
20	CN = GROB-WERKE GmbH und Co. KG GCC R3 SMIME CA 2020, O = GROB-WERKE GmbH und Co. KG, C = DE	B75840FEA15C545335CD4BA58B707F53524CE984655AEBCC248A57E6F2403A8B	
21	CN = HERTZ GCC R45 SMIME CA 2020, O = The HERTZ Corporation, C = US	013C13426B92F703BA573D9E16C2E35AECA26C60F606B88D3CE2150C94D56C14	
22	CN = Hyperion GCC R3 SMIME CA 2020, O = Hyperion Services Ltd., C = GB	9537738522B6A87FCF8338CF270203CCF1A7770BB14BB23FA2882A05FFB804E4	
23	CN = LinQuest GCC R3 SMIME CA 2020, O = LinQuest Corporation, C = US	DDD73ABF0259F18F77CA598C2745EA18243526B10D371D7E3B088D68C88C0A97	
24	CN = RWE Atlas R45 SMIME CA 2020, O = RWE AG, C = DE	BEE8FB99D7B9EC0CAEF1B1A6ACFFEABD777E31CBAC2D0E1846BDAEC4D5B18BE8	
25	CN = Spirit AeroSystems GCC R45 SMIME CA 2020,	90D87E23B012A357851472CE9F4E49201F67BA9EC1FB9CD236C0C5AAA15FFE9E	

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	O = Spirit AeroSystems, Inc., C = US		
26	CN = Trafigura PTE Ltd Atlas R45 SMIME CA 2020, O = Trafigura PTE Ltd, C = SG	36FCE16CC976727765DF5E9FADB12C544D704C35150D1F17DDE1A42A85B88BE4	
27	CN = GlobalSign ECC HV S/MIME CA 1, O = GlobalSign nv-sa, C = BE	E0CE5C4EF5D2186963D2B04ADE4612BBAF787E16048A5B468F7367776C3A03DE	
28	CN = CRB Group SMIME CA 2019, O = CRB Group, Inc., C = US	6A5F4C1678CA65E59F060D57CDFF665065314861D53A8E7D1450CA92D96CA102	Revoked on October 21, 2020
29	CN = LinQuest SMIME CA 2020, O = LinQuest Corporation, C = US	113138DD7B216725840238E2D7EEECB3738DB139064B24CB853FC270A49E6057	Revoked on November 18, 2020
30	CN = Trafigura PTE Ltd S/MIME ICA 2020, O = Trafigura PTE Ltd, C = SG	5E7FCB9C97BDA56993B1658D120232761D665A3644534300FA6A5BEC5E0D5795	Revoked on July 11, 2020
31	CN = GlobalSign SMIME CA 2018, O = GlobalSign nv-sa, C = BE	C8192C32F7B49C7F32A1CA001595A7F9E36C9E72058D6EAA1BAB7752A8C16718	Revoked on September 16, 2020
32	CN = CBMM SMIME CA 2019, postalCode = 38183-903, street = RUA CORREGO DA MATA S/N, ST = MINAS GERAIS, L = ARAXA, O = COMPANHIA BRASILEIRA DE METALURGIA E MINERACAO, C = BR	C346D9137E05254C6EEAC99AC2F6748A0C5D3AFC6B7B9B1E00C40ADF4D85655D	Revoked on November 18, 2020
33	CN = Google S/MIME Authority, ST = California, O = Google Inc, C = US	6A1745B31176FAC284420A2BCEF67B59E22A1D37753ABAF2CC51B2F572922588	Revoked on December 09, 2020
34	CN = GROB-WERKE GmbH und Co. KG SMIME CA,	1608BF87414CDCFAB4279102A19702D9D5996A91329E3DF2F80495473AAD86C6	Revoked on October 21, 2020

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	O = GROB-WERKE GmbH und Co. KG, L = Mindelheim, ST = Bayern, C = DE		
35	CN = Hyperion SMIME CA 2018, O = Hyperion Services Ltd., L = London, ST = London, C = GB	DCD77E34B46D530AEF645A513389CD4FFC0F7D196A115B8F62A5FD0D557D46C6	Revoked on November 18, 2020
36	CN = GlobalSign HV S/MIME CA 1, O = GlobalSign nv-sa, C = BE	0F8EEFEC0D1FDBDA33BFEB41455110613CC5681E92B4BCB95610DA35FE1F3C66	Revoked on April 16, 2020
37	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Remote Signing CA 2020, O = GlobalSign nv-sa, C = BE	323F35F0DFB01D6B478C24026C66852AAD3E96DCB1C5BE17C1DA1EC47D77CC87	
38	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas R45 UK Qualified Remote Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	0958E7A84F392A4F3B7DC5E30FDC8DF733E69B44C68C16FC0DA1741C08419DA0	
39	CN = GlobalSign GCC R45 PersonalSign 3 CA 2020, O = GlobalSign nv-sa, C = BE	50161C1232F32E8057879F9C7651A9088F5AA1EF5AC9A9A4BD445C6E788EA6F8	
40	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified Authentication CA 2020, O = GlobalSign nv-sa, C = BE	E042DA36AA8B9A290A525B63AFBBD42E3DBA8286F7100C7981799C6EF2F8919C	
41	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified QSCD Signing CA 2020, O = GlobalSign nv-sa, C = BE	1B728D4A76506634A11007912F1D8C6B9AA39BE1AFCA49096657CF1FFB4513BF	
42	2.5.4.97 = NTRBE-0459134256,	4E1474CFEB41D048C7E1E2C975D69AD3FD739BD44577A80D0432F233D51C5C77	

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	CN = GlobalSign GCC R45 Qualified Signing CA 2020, O = GlobalSign nv-sa, C = BE		
43	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified Authentication CA 2020, O = GMO GlobalSign Ltd, C = GB	EEE8A6FBDE0B1340552AE739832A686FE96103435AE1FCE9392D655E00D8670D	
44	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified QSCD Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	91F881C556A920B92C4C48221FAAC19615437CF4ACB7D079C0B426BF3483B3AE	
45	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	F5E9E2705AB0C93E80652D2DEB573AB01D6700597BDA122BC08BA97FDC713368	
46	CN = GlobalSign R45 AATL Root CA 2020, O = GlobalSign nv-sa, C = BE	B296DC3BCF451217D7AD4F84FB8EE25CC92FC659CAFA0EB4A8B5B4DB3D0215C2	
47	CN = InComm Agent Solutions Inc Atlas Issuing CA 2020, O = InComm Agent Solutions Inc, C = US	4DFD9A61EB32208A94F15719FF2EC71449BCB0F344C18D5D1D3994A6C30EC92E	
48	CN = NAESB GCC R45 Client Authentication CA 2020, O = GMO GlobalSign Inc., C = US	5EBD04144508FADD1B9DB79FF62B826D6FF893987B1534C0F8EEC2261D6AC452	
49	CN = Accenture Federal Services GCC R3 Global CA 2020, O = Accenture Federal Services LLC, C = US	9D61B40ECFE094B415FBF6AEEA1FDB27A1A4C3B6FD9008D768777D6D7FBAAEE9	
50	CN = Ford Motor Company - Enterprise Issuing CA01, ST = Michigan,	7B96DA88C60AE48624F480217865FEB124719022F49E58EE830B3E93D36D9AEF	

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	L = Dearborn, O = Ford Motor Company, C = US		
51	CN = GlobalSign GCC R3 PersonalSign 1 CA 2020, O = GlobalSign nv-sa, C = BE	583C7FC250856B7F947FC7CC076FE216273CA1713D122C2E5D8F6038FD6E3562	
52	CN = GlobalSign GCC R3 PersonalSign 2 CA 2020, O = GlobalSign nv-sa, C = BE	F0DBB9E90E6643CCB23660147E5DE24760440089D96F4AD0D82F66C3E7DA5C20	
53	CN = InComm Agent Solutions Inc Root Certificate Authority, O = InComm Agent Solutions Inc, ST = Florida, C = US	ECF5DC23556585AE8F9CE5BA0955F982AFF77E975F84C53F4A098626C20BFE5A	
54	CN = JCAN Public CA1 - G4, OU = JCAN Public CA1 - G4, O = JIPDEC, C = JP	9AC4C8E358C095C998122ADD17A336C0AC597ECBECB7EDC3F58A75040CF94A5F	
55	CN=Quálitas Compañía de Seguros S.A. de C.V. GCC R3 CA 2020; O=Quálitas Compañía de Seguros S.A. de C.V.; C=MX	795A8468D098E3729E6A17920AA6D8F27E84DC180F85C9B28A77FB368DCC7895	
56	CN = GlobalSign Primary SHA256 CA for Adobe, OU = GlobalSign CDS, O = GlobalSign nv-sa, C = BE	8B8AAA67E1EB067303F09E17A505CE7B6CA1C8DC0E1DB59D982B579C69D644E1	
57	CN = AbbVie Atlas R6 AATL ICA 2020, O = AbbVie, Inc., C = US	6509F94BCA4DC619F3E732D533ACD3D0F10ABA102A13123B6AF737C8E12DAA21	
58	CN = DPDHL User CA I5, O = Deutsche Post AG, C = DE	163B5F69720164075C16CE760A93C85D5073CD5A0D41C7A3AFB0B5E75B3DC646	
59	CN = Giesecke and Devrient CA, OU = Corporate CA, O = Giesecke and Devrient,	A53FB60B6C9CEC1175C729BB8A34D1AA1DA85AF234E41603621D983940026400	

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	L = Munich, C = DE		
60	CN = Giesecke and Devrient CA, OU = Corporate CA, O = Giesecke and Devrient, L = Munich, C = DE	4AB23AF5233FD65FBD981973515A7379C76B9B852A5B4E35890B7F60D1923A4F	
61	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified Remote Signing CA 2020, O = GlobalSign nv-sa, C = BE	5CB0FDEF052BD18A0A40ADA2235F46EB42B6D0993ED5A50DE47E3EA12FF191B1	
62	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas E45 UK Qualified Remote Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	B89EBBFC57AE60653C676B8EB399DC9415BBB738CB0370651A86BFF075C83A39	
63	CN = GlobalSign Atlas R45 AATL CA 2020, O = GlobalSign nv-sa, C = BE	65573E11BB13C6ED115E0B90E2C30B1E4DE4D5CAC1B31EAB2D417C32A3DA5D79	
64	CN = GlobalSign Atlas R6 AATL CA 2020, O = GlobalSign nv-sa, C = BE	96D0E059827A7C99BA5CF586D1B77397A3C83777C467BF1914762AE16ABE3834	
65	CN = GlobalSign CA for AATL - SHA256 - G3, O = GlobalSign nv-sa, C = BE	2E8820DC0EAF3D6D285C057ECE14470B377438B002CEDD4C72B4F343A54F43	
66	CN = GlobalSign E45 AATL Root CA 2020, O = GlobalSign nv-sa, C = BE	87903E20623512D28BDBFACE4D41BD50F5BA6B1B2E8CCAB134CE161769EAEC00	
67	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified Authentication CA 2020, O = GlobalSign nv-sa, C = BE	5F2155F9A7444615C673994CDA99E963BB558A367B20305520E93D15EF3AF4E8	

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68	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified QSCD Signing CA 2020, O = GlobalSign nv-sa, C = BE	8115E2CB4F04E56EA70EA932D0622831DD53B22BF6A93B3ACD9125FAB0374AF1	
69	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified Signing CA 2020, O = GlobalSign nv-sa, C = BE	35E9429CDE680D8D5311CDD46FAEF0AEE694B0556C3D69C4F670E243D64C87FE	
70	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified Authentication CA 2020, O = GMO GlobalSign Ltd, C = GB	1DBC5465732AC3232FF12641C2898EA0F239D06186DD1B085496ABC6E5BD07F2	
71	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified QSCD Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	712C42F3C0FA3BDFA11B22AC9811C8EB912C4B464B43C705825DEEDC1195AD33	
72	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	28CB8EE23E7BDBBF40B2959A57BB589991C2635CD3B71AAB0E84F993C559D29F	
73	CN = GlobalSign GCC R45 AATL CA 2020, O = GlobalSign nv-sa, C = BE	BCF8D9040635C95E84F9FEDDF36F9422C0D215C23798E9C2D5F3798ECF27B68A	
74	CN = GlobalSign GCC R6 AATL CA 2020, O = GlobalSign nv-sa, C = BE	75CC6021036890EAC71853FAE8382CF8DB33DC41706F42AAFE421E98AD38174C	
75	CN = Statoil Qualified CA, O = Equinor ASA, C = NO, DC = statoil, DC = com	0A665640BE77300E0DF23752F324499E132A99A7E5A81879AA9E58B65F501C97	

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76	CN = Statoil Qualified CA, O = Statoil ASA - 923609016, C = NO, DC = statoil, DC = com	5E297C0107659C8068CC7674635E56F74D05BFD6E687D3075FC48C7E8FF70D95	
77	CN = Trusted Root nonTLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	3A30D4A3043F195609E30F747754699CC6CC97E1F5FCB83DE87E659E579E39AD	
78	CN = Ford Motor Company - Enterprise Issuing CA01, ST = Michigan, L = Dearborn, O = Ford Motor Company, C = US	DE8D9CED3CBD78B1F05DE90225D0B693D3296FB5611E179FDB1B2A7BF893F236	Expired on December 31, 2020
79	CN = DPDHL User CA I3, O = Deutsche Post, L = Bonn, ST = Nordrhein-Westfalen, C = DE	57D8F8E4F1DE9F44DFAC8443DA0205F1B8AA7E6DB75459943B74D89B3909BCA3	Revoked on September 16, 2020
80	CN = Trafigura PTE DocuSign CA, O = Trafigura PTE, C = SG	0C3B69672EBABE1F96CAF3CBE598F7747C01F78014AF651191950D673FD91784	Expired on September 20, 2020
81	CN = Ford Motor Company - Enterprise Issuing CA01, ST = Michigan, L = Dearborn, O = Ford Motor Company, C = US	4C241CFE3D3FFB60CA88D6B06A552AB1CF0EF7D8D2E08DA15282B55192EBBD29	Parent revoked on July 11, 2020
82	CN = DPDHL User CA I3, O = Deutsche Post, L = Bonn, ST = Nordrhein-Westfalen, C = DE	2E0191751CA0CBA81C3A6338DEE1A02B8D6BCC4F1F8261B809BCCE7ABAF1A43D	Parent revoked on July 11, 2020
83	CN = Intertek Document Signing Authority, O = Intertek Group plc, C = GB	9571BFEA2F1F572EEE34F9EE99F5E55CC7A2EC3A1B4B52B7C32A228482B6CC57	Expired on August 01, 2020

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84	CN = RISE Signing CA, O = RISE Research Institutes of Sweden AB, OU = IT, L = Goteborg, ST = Vastra Gotalands Lan, C = SE	DCEB06E046A76706BD1D928FA2DB893DB550D2973914843C5CC5DBE2D9D9B79D	Expired on August 01, 2020
85	CN = IHI-EC International Corporation, O = IHI E&C International Corporation, C = US	DC1983F14B0096FB12A6D82B4822730D238779CA0543C43C015F249249564D4D	Expired on July 31, 2020
86	CN = DPDHL User CA I3, O = Deutsche Post, L = Bonn, ST = Nordrhein-Westfalen, C = DE	AF1898D7F0638751C075D0142D4E2A0EA731FC622324F153FE1BF3B6AFD9AF13	Parent revoked on July 11, 2020
87	CN = DPDHL User CA I3, O = Deutsche Post, L = Bonn, ST = Nordrhein-Westfalen, C = DE	EBE87BB4188502709F444055259ABB22BC51B88C908419A13559DFC8EF6630D1	Expired on July 09, 2020
88	CN = RTI SHA256 CA - G2, O = RTI International, ST = NC, C = US	5F7C6E6041DAA513CBFE3D4E07FDC84E230DA21AF2DE186460C9EC0481516DAB	Expired on June 27, 2020
89	CN = Noble Energy SHA256 CA - G2, O = Noble Energy, Inc., L = Houston, ST = Texas, C = US	FA51FE39F0F316E92412E1170118E2D62A8E4ADA0F88EC237F3CE631F70BE298	Expired on June 27, 2020
90	CN = Giesecke and Devrient CA, OU = Corporate CA, O = Giesecke and Devrient, L = Munich, C = DE	0F7F0A51DE1E5AE3E4B36647AE09BA59E36C773E308DC16268F4228AF527D710	Expired on April 30, 2020
91	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Authentication ECC CA 2020, O = GlobalSign nv-sa,	110CFA9601734984AB975D1069C6E45983E8AC1B9074FD489BAC2E2EFDF140E2	Revoked on July 08, 2020

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	C = BE		
92	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified QSCD Signing ECC CA 2020, O = GlobalSign nv-sa, C = BE	5A65CA143019485BDD714A0285371C00426C0C67097C7939939E488819224A29	Revoked on July 08, 2020
93	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Remote Signing ECC CA 2020, O = GlobalSign nv-sa, C = BE	AEB217DC3CB735F7A4D17C4983D316153FA23960586F1E2F0BFDD9F60DA043FB	Revoked on July 08, 2020
94	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Signing ECC CA 2020, O = GlobalSign nv-sa, C = BE	11476A7C474022CC44D3E5D5952B587A7D940D25EA7EA959FE640B2CA9F7BFF9	Revoked on July 08, 2020
95	CN = AbbVie AATL ICA 2020, O = AbbVie, Inc., C = US	154E4834B28D4FB1F90FEE935D0DDE46C45A177FC1425A028C685C32855A85AD	Revoked on August 19, 2020
96	CN = GlobalSign AATL Partners CA 2019, O = GlobalSign nv-sa, C = BE	83FC891B350D9E0D7EBE6DD2A6BFE3D0B0F4653FCA048615A5DEEBBC039A3F66	Revoked on August 19, 2020
97	CN = GlobalSign Issuing CA for AATL Partners 2019, O = GlobalSign nv-sa, C = BE	67C46DC17762667844F1596089375FF45E05C2B316C89499F6E7FAB78C8F0379	Revoked on August 19, 2020
98	CN = Quálitas Compañía de Seguros S.A. de C.V., postalCode = 05200, street = JOSE MARIA CASTORENA No. 426, SAN JOSE DE LOS CEDROS, ST = CIUDAD DE MEXICO, L = CUAJIMALPA, O = QUALITAS COMPAÑIA DE SEGUROS S.A. DE C.V., C = MX	B716B089FE4E53D1A2EF7BA57AC85E68EC722CF61052C25A59626AD3B15C5F40	Revoked on October 21, 2020

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99	CN = DPDHL User CA 14, O = Deutsche Post AG, C = DE	C25C4EDBC36E3FB7C3D937BEE9F2D29E36AFB07CFA3188262E0D5FDC919E0D77	Revoked on November 18, 2020
100	CN = GlobalSign CA 6 for AATL, O = GlobalSign nv-sa, C = BE	BE1FFC0E1FF6088104F43E327E7C7DC72A9CA7B0DF05793123ABE32DEACEE76F	Revoked on December 31, 2020
101	CN = GlobalSign PersonalSign Partners CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	4E707867946AC05343C6BA8FF121EA66A758037913257A8EE4974350D39A1034	Revoked on January 21, 2021
102	CN = GlobalSign CA 4 for AATL, O = GlobalSign nv-sa, C = BE	EBA34C7B109671614C367E1DE075124C3954CE19F85FACF61090EC319F7F1A7F	Revoked on December 31, 2020
103	CN = GlobalSign Qualified CA 1, O = GlobalSign nv-sa, C = BE	F5709A2D2F68B53BF6F645BB178ADF95346F89FDA5C63BFDE08042A26492AAB2	Revoked on February 24, 2021
104	CN = GlobalSign Qualified CA 2, O = GlobalSign nv-sa, C = BE	FD3A0F3DD4480092B6D450473DEB9201A0B308A8807833A3C738F8A07EB81ED3	Revoked on July 08, 2020
105	CN = GlobalSign Qualified CA 3, O = GlobalSign nv-sa, C = BE	0AA9F2E7D95C718B7D1EB7CCDBD0164E86057AE9D66922BC60F9903F94A0F0EF	Revoked on July 08, 2020
106	CN = GlobalSign PersonalSign 2 CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	27D6FDAF80297846DFE82E7F58B9A48AC9E3EE93A112B1BBE243EE1A97447C	Revoked on July 11, 2020
107	CN = GlobalSign PersonalSign 2 ECC CA SHA 384 - G4, O = GlobalSign nv-sa, C = BE	46038F6326228CDB56619C52266613DA04C8CA499E0D03B0EDCFFC110D5CFC70	Revoked on July 28, 2020
108	CN = GlobalSign PersonalSign 2 RSA CA SHA 384 - G4, O = GlobalSign nv-sa, C = BE	5CDD809CF44F5F8665EAC15055504C5B06B787AC18294505BDBAB4A77E50D776	Revoked on July 28, 2020
109	CN = GlobalSign CA 4 for AATL, O = GlobalSign nv-sa, C = BE	9DDC2E0D55B461E0C73228282DF56B2BEF224CA2385681D17B6E8C077852573C	Revoked on July 08, 2020
110	CN = GlobalSign CA 5 for AATL,	306E9739E3458FF4546877B704B2E3905E58B235D64E32F4F026AC91B7295D15	Revoked on December 31, 2020

	O = GlobalSign nv-sa, C = BE		
111	CN = JCAN Public CA1 - G4, OU = JCAN Public CA1 - G4, O = JIPDEC, C = JP	7B464DC384FDB1A525C2CC279ED0C7CFAD24BECF72C46A7D7093D157C217607E	Parent revoked on July 11, 2020
112	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Authentication CA 2020, O = GlobalSign nv-sa, C = BE	61D152180C8BB668A37DE25F24641807443CBBD50C1BCFF3E07058162A264448	Revoked on July 08, 2020
113	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified QSCD Signing CA 2020, O = GlobalSign nv-sa, C = BE	BAB082319000C0C103185D75135DA328ACA013E8F70F356833620D24800CD4C7	Revoked on July 08, 2020
114	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Remote Signing CA 2020, O = GlobalSign nv-sa, C = BE	2ABF6447B72ECB572DA30B27CD8D2069033AF045714AC458DA0789E9623E260F	Revoked on July 08, 2020
115	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Signing CA 2020, O = GlobalSign nv-sa, C = BE	A686AD3494BEB5ADC479C280BF156D3F87109F7866F88511E93D753EA3DD55E9	Revoked on July 08, 2020
116	CN = NAESB Issuing CA - SHA384 - G4, O = GMO GlobalSign Inc., C = US	C4C7C436BD88E8E68DB00297DF83ACC819E198639BA00522C8E3245876898523	Revoked on February 24, 2021
117	CN = GlobalSign PersonalSign 2 CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	B778748A792B8F91F04B01BAFC31A31ED7EF6A712AFF80B6610D9AADEE207ADF	Revoked on February 24, 2021
118	CN = GlobalSign PersonalSign 1 CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	F5D2D2BA6817A7A9AA0E21354BBF0E6F95C5E287EE88CF2F279F0FFEC4EDAC15	Revoked on February 24, 2021

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119	CN = GlobalSign PersonalSign 3 CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	701B432AC0CDD4D9CF95B4B884C32BF5CCA90D44E0161ABD13B934D68E380472	Revoked on February 24, 2021
120	CN = GlobalSign PersonalSign 1 CA - G3, O = GlobalSign nv-sa, C = BE	F068DEAA18CC02D5A8BE35CB8338327910291F6E62E7216A934764A1ABA4A800	Revoked on July 28, 2020
121	CN = GlobalSign PersonalSign 3 CA - G3, O = GlobalSign nv-sa, C = BE	B1FE3AEBF963A7880E74B0B0556681EA8B1CCCE3E69A7D3B10A68ACBE86E48A1	Revoked on July 28, 2020
122	CN = EY LLP SHA256 CA - G2, O = Ernst & Young LLP, C = GB	1557F65BA61C958B74EFA4A582BBAEBDD62A6D9B65FE95A80D5ED518F46ED87F	Revoked on December 31, 2020
123	CN = HERTZ SHA256 CA - G2, O = The HERTZ Corporation, ST = Florida, C = US	64FD7F66B805EF0FAE09DAC06EAD1A9AB5C28E6F24AD0759996D349987FEE7E2	Revoked on October 21, 2020
124	CN = DPDHL User CA I3, O = Deutsche Post, L = Bonn, ST = Nordrhein-Westfalen, C = DE	F037621405E0F356507E239FADD647842D3B50857C3CFF840859174F72F6FD18	Revoked on July 11, 2020
125	CN = Ford Motor Company - Enterprise Issuing CA01, ST = Michigan, L = Dearborn, O = Ford Motor Company, C = US	3802E424516F78EEAC329AAE9B1F60A412DBE1D5B095D7AC9DC0DCDDE3C1F5FB	Parent revoked on July 11, 2020
126	CN = Accenture Federal Services External CA, O = Accenture Federal Services LLC, ST = DE, C = US	A9C8E971259A2ED6E65F721E07AA967C72C7CDB47C7BE1288D87BF08D2F3580D	Revoked on December 31, 2020
127	CN = Spirit AeroSystems SHA256 CA - G2, O = Spirit AeroSystems, Inc.,	8609BDCEF95E4A4D426497B5CD8ED4B001C953A5C14471CAAF58FB650DF8ABF0	Revoked on November 18, 2020

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	ST = KS, C = US		
128	CN = CareFirst SHA256 CA - G2, O = CareFirst, Inc., ST = MD, C = US	CF9B7EF7B437F7E4709A0507E5C5871690021D64F3B8FCE703EC85C85AE8FA29	Revoked on May 20, 2020
129	CN = Giesecke and Devrient CA, OU = Corporate CA, O = Giesecke and Devrient, L = Munich, C = DE	632FD697BACAF1ED232517EC9B7622B7C25E1448B0CC626B33286719E351CE8A	Parent revoked on July 11, 2020
130	CN = NCDOR SHA256 CA - G2, O = Department of Revenue, ST = NC, C = US	C647C537F7E3D280948D40800AEF8F534254F74A12168E3630E760D71675BE3B	Revoked on May 20, 2020
131	CN = Statoil Qualified CA, O = Statoil ASA - 923609016, C = NO, DC = statoil, DC = com	50CA2C8DFDCA8FB17F5FD447A86B24E263DD9F1D4FC77E899DD8CD9136943FCC	Parent revoked on July 11, 2020
132	CN = Statoil Qualified CA, O = Statoil ASA - 923609016, C = NO, DC = statoil, DC = com	2A480810310EA0CB659031A20D4E4A3C1000EF34526234964FDFE9C656C45BCD	Parent revoked on July 11, 2020
133	CN = NAESB Issuing CA - SHA384 - G3, O = GMO GlobalSign Inc., L = Portsmouth, ST = New Hampshire, C = US	128DED1A8AD60C24B4254E31DB94FC4392BF93ED5434472AA43A0B9856106068	Revoked on July 28, 2020
134	CN = VWFS CA for AATL, O = Volkswagen Financial Services (UK) Limited, C = GB	CF89A41DFEE5F71740DEF602735DDBF1DEBE0CB816D73980D9A583C5881CE778	Revoked on May 20, 2020
135	CN = InComm Agent Solutions Inc Root Certificate Authority, O = InComm Agent Solutions Inc,	2A5EAD8B41A7CDDC126B10ED248A2EEFEDA855660342F222A38CC6605D443E22	Parent revoked on July 11, 2020



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	ST = Florida, C = US		
136	CN = DPDHL User CA I3, O = Deutsche Post, L = Bonn, ST = Nordrhein-Westfalen, C = DE	BCE3A5BD8D9082636C5BFE3E0B71ACEE551E24E3BD035887D2661ADA65AFF484	Parent revoked on July 11, 2020
137	CN = Intertek Document Signing Authority, O = Intertek Group plc, C = GB	91F4860A68760E55F4F2158478E67F958BD637B7C0FB6093E9E904DFA46AC334	Revoked on December 01, 2020
138	CN = DexKo Global SMIME CA 2019, O = DexKo Global Inc., C = US	ABC86706C98D6BF67372F908EC01ADF631B191D733AE89F8343EB047B108144B	Revoked on October 18, 2020
139	CN = GlobalSign PersonalSign 2 CA - G3, O = GlobalSign nv-sa, C = BE	925EE7D5A22AD7FBE9BAB54D7C8D0B9A74F7E35A8AF6AF645E2E8C3519A7092F	Revoked on July 28, 2020

Timestamp CAs

#	Subject	Fingerprint SHA-256	Additional information
140	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Timestamping CA 2020, O = GlobalSign nv-sa, C = BE	D86E6264D58E4CA78AF419740D8186EA8EC48F0C33B4B4D7CA027931D627B1C8	
141	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas R45 UK Qualified Timestamping CA 2020, O = GMO GlobalSign Ltd, C = GB	4C03F2D6941F2DFCA27EDC599F385E6CD3FFD0CC842F2CCB95B77580A2D1FF93	
142	CN = GlobalSign Qualified Time Stamping CA 2019, O = GlobalSign nv-sa, C = BE	74ABE5E5CCEB75491FF72C4CF325405D8ADBFE390E189CF430BA60E62798878E	
143	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas ECCR5	E55A4FE881A4B0433674EC0E5CC261A99CCE3FEF649528C7218085BEDCD11512	

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	Qualified Timestamping CA 2020, O = GlobalSign nv-sa, C = BE		
144	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas ECCR5 UK Qualified Timestamping CA 2020, O = GMO GlobalSign Ltd, C = GB	40382F8827B75D25705A6B3DA32533C5F4218BD7FA697CB0B300E8F47047FBC9	
145	CN = GlobalSign Timestamping CA - G3, O = GlobalSign nv-sa, C = BE	95C6A747DD0BC755A1941827E894B8083592241B792541E2EB1B30FB9B13F57F	
146	CN = GlobalSign Timestamping CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	BE33D1C57EBDDD927B57BDB604BE457B552FE568E7F3DCBA093C39ED1C30A239	
147	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Timestamping ECC CA 2020, O = GlobalSign nv-sa, C = BE	C2FEACD674878C7B0C2325A2ECED0A333DB7780A86DFEC3758100EFC0101C665	Revoked on July 08, 2020
148	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Qualified Timestamping CA 2020, O = GlobalSign nv-sa, C = BE	FD8B39230117A7E4D060E39489F4FE30662BAFE624A29E43B133615BABC63C20	Revoked on July 08, 2020

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Appendix C – Locations

Location Identifier	Country	State / Province
BE-01	Belgium	Vlaams-Brabant
CN-01	China	Shanghai
IN-01	India	Delhi
JP-01	Japan	Tokyo
JP-02	Japan	Yamaguchi
JP-03	Japan	Tokyo
JP-04	Japan	Tokyo
JP-05	Japan	Tokyo
PH-01	Philippines	National Capital Region
RU-01	Russia	Moscow
SG-01	Singapore	Central Singapore
SG-02	Singapore	Central Singapore
UK-01	United Kingdom	Kent
UK-02	United Kingdom	Greater London
UK-03	United Kingdom	Greater London
US-01	United States	New Hampshire

Appendix D – Publicly disclosed incidents

#	Disclosure	Publicly Disclosed Link
1	GlobalSign: SSL Certificates with US country code and invalid State/Prov	Bugzilla Ticket Link
2	GlobalSign: ICAs in CCADB, without EKU extension are listed in WTCA report but not in WTBR report	Bugzilla Ticket Link
3	GlobalSign: Failure to revoke noncompliant ICA within 7 days	Bugzilla Ticket Link
4	GlobalSign: OCSP Status HTTP 530	Bugzilla Ticket Link
5	GlobalSign: Misissuance of QWAC Certificates	Bugzilla Ticket Link
6	GlobalSign: Failure to revoke 2 noncompliant QWACs within 5 days	Bugzilla Ticket Link
7	GlobalSign: Certificate issued with RSASSA-PSS public key	Bugzilla Ticket Link
8	GlobalSign: Failure to revoke key-compromised certificate within 24 hours	Bugzilla Ticket Link
9	GlobalSign: Incorrect OCSP Delegated Responder Certificate	Bugzilla Ticket Link
10	GlobalSign: Cross Certificate with non-conforming CABF Policy OIDs	Bugzilla Ticket Link
11	GlobalSign: Failure to revoke noncompliant ICA within 7 days	Bugzilla Ticket Link
12	GlobalSign: Use of Domain Validation Random Value for more than 30 days	Bugzilla Ticket Link
13	GlobalSign: Failure to revoke noncompliant certificates within 5 days	Bugzilla Ticket Link
14	GlobalSign: Certificates with RSA keys where modulus is not divisible by 8	Bugzilla Ticket Link
15	GlobalSign: Incorrect Jurisdiction of Incorporation information for Japan	Bugzilla Ticket Link
16	GlobalSign: SHA-256 hash algorithm used with ECC P-384 key	Bugzilla Ticket Link
17	GlobalSign: Empty SingleExtension in OCSP responses	Bugzilla Ticket Link
18	GlobalSign: Failure to provide a preliminary report within 24 hours	Bugzilla Ticket Link
19	GlobalSign: Invalid stateOrProvinceName value	Bugzilla Ticket Link
20	GlobalSign: RSA-1024 leaf certificate issued after 2013-12-31	Bugzilla Ticket Link
21	GlobalSign: Issuing CA certificate with wrong notBefore date	Bugzilla Ticket Link



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