

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 extended validation SSL ("EV 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 EV SSL Certificates in conformity with the CA/Browser Forum Guidelines 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 EV SSL certificates it manages is established and protected throughout their life cycles; and
 - EV SSL subscriber information is properly collected, authenticated (for the registration activities performed by GlobalSign)

in accordance with the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL, Version 1.7.3](#).

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 - Extended Validation SSL, Version 1.7.3](#).

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 behaviour.

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 EV SSL certificate lifecycle management business practices, including its relevant controls over the issuance, renewal, and revocation of EV SSL certificates;
2. Selectively testing transactions executed in accordance with disclosed EV 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 - Extended Validation SSL, Version 1.7.3](#).

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 - Extended Validation SSL, Version 1.7.3](#), 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 Principles and Criteria for Certification Authorities - Extended Validation SSL Seal constitutes a symbolic representation of the contents of this report and it is not intended, nor should it be construed, to update this report or provide any additional assurance.

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

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	2CABEAFE37D06CA22ABA7391C0033D25982952C453647349763A3AB5AD6CCF69	
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	

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	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
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, 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
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	ACOAB963BB5F3DA05FBC8687F98C2B6EA0BB499E6118C1A9136B1BC7C3C71A6B	
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 - G3, O = GMO GlobalSign Inc., L = Portsmouth, ST = New Hampshire, C = US	0986B5A1C7314EFB04FB648B9E2B57CF4842FD1D4345D28E52094C90A9FECBFE	Revoked on September 30, 2020

DV SSL Issuing CAs			
#	Subject	Fingerprint SHA-256	Additional information
52	CN = GlobalSign Domain Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	09BC1B137C031239EF788673E94EB17F5F3ECAB07D3ADBFB485E75ABFAAF3B9A	
53	CN = Soluti CA - DV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	5C452334D9C9C9A2EA42CC77A7165E1795EE9D84EB70CB784B47EA9D92A582D9	
54	CN = Valid Certificadora Digital AlphaSSL CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	04DE47A9CDD3091CFC5EF6AAA3B7D4B53E13C4D4DC02364F6C0B408742EC3C76	
55	CN = Valid Certificadora Digital SSL DV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	FCF26FBC1B2A25A76AB4EA92B2CBFEF367E0131091C802DA49898F78AE54B30F8	



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56	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	8C2410F76B149CA062B420AB611B6BFOA06E6E799A29587E4D4EC16D0537B7EA	
57	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	EE793643199474ED60EFDC8CCDE4D37445921683593AA751BBF8EE491A391E97	
58	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	BFDF4CF3F143AD0DB912D8AB3A7C12F617B9EA60CE8B1F4E44F74270FB21B19B	
59	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	72132ECF2F8C75B5F214C00ED14562E14912B7F2F4D2633180F3E4918980FEC4	
60	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	6F335DD7CD4AAA1D9140F290E9E7B3498A7CC35A244AA300E146BA2D9D02B960	
61	CN = GlobalSign Atlas R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	B65FE6A1BF2D52FF68B7D3E9D0F06B300A1C3F248309B70405CA7BDEC054BDDD	
62	CN = GlobalSign Atlas R3 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	59F5FF92B608A0119FF1DD7C603E0EB16F4FEAD9D4717AC3BC62D286AE399CDA	
63	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	37D080A5E9A526663E56EE20DE4BD9F7952DACC341491439080167AD5DD18CAC	
64	CN = GlobalSign GCC R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	762538439509C411C437D3C567563E1378671281FC4A1464ADD031870843676E	

65	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	5A817EADA4AD78734EBB2CF674352D97F4352290C40EAF10E764B1EAC075B0E6	
66	CN = AlphaSSL CA - SHA256 - G2, O = AlphaSSL	933E4A2D8DB1FF9FF0E508EA7F1637E074F660FE6F365A2233DFC2B52C889D98	
67	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	669E7727A92BE72D9718E16922DC1BC1492B1AF33FA4793E68D8778F19A2EBE0	
68	CN = GlobalSign HV ECC DV SSL CA 2018, O = GlobalSign nv-sa, C = BE	4B0D1392D39157353207A64CCB14683DDE9D2CED1FB58B16E038BE5707C27813	Revoked on July 08, 2020
69	CN = GlobalSign HV RSA DV SSL CA 2018, O = GlobalSign nv-sa, C = BE	54C37A8E853FD1D6378D378B939307EC321A31CC1A5A89E7180633BC13F18762	Revoked on October 21, 2020
70	CN = GlobalSign RSA DV SSL CA 2018, O = GlobalSign nv-sa, C = BE	9E898ED03FA46969690DAD73C7296675045FF9B5A0100A399BEB8435A98F5185	Revoked on January 20, 2021
71	CN = AlphaSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	4C013B8854689CB6626CC087B4D4FCCA45104E2D73BFADF33A6979ED124B7837	Revoked on December 09, 2020
72	CN = Cloudflare ECC DV CA, O = Cloudflare, Inc., L = San Francisco, ST = CA, C = US	0F4517487FD0A8BA3194A6122450A7B32C987FFF16F2D4AF54E6EDB6FED68E08	Revoked on September 16, 2020
73	CN = Cloudflare RSA DV CA, O = Cloudflare, Inc., L = San Francisco, ST = CA, C = US	D439F88E8F2F80A306F910DCDE548D71BBFD99A85FC7034EFB610E3749550932	Revoked on September 16, 2020
74	CN = AlphaSSL CA - G2, O = AlphaSSL	1DCA65B86A57336BA5AFB7214A36F7D6EDE698EB4F03387CB3AD6BBD3A93BAB6	Revoked on December 09, 2020

75	CN = GlobalSign Domain Validation CA - G2, O = GlobalSign nv-sa, C = BE	E87EA2BED6C6203B2C55B00FE49D2876FBA64702105AEB748B865A918B5C7D27	Revoked on December 09, 2020
76	CN = GlobalSign Domain Validation CA - G2, O = GlobalSign nv-sa, C = BE	BA0E2B6BF2C98ED2C3B1C1C08A1BBDCAF9270AC528A3194301DD2A0B6B67B9B3	Revoked on December 09, 2020
77	CN = GlobalSign Domain Validation CA - G2, O = GlobalSign nv-sa, C = BE	4E153A588877688F1A0C103A084C2EDB3AD1D8C480CF03D8AB6FED47D9204370	Revoked on December 09, 2020

OV SSL Issuing CAs			
#	Subject	Fingerprint SHA-256	Additional information
78	CN = GlobalSign Organization Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	699D54B7482A5D329331EA0415CC2EDCD60FDA01D19E71D054196BCE0677735C	
79	CN = GlobalSign Atlas ECCR5 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	2EB8A1317288F08233E6883CEBE67EA6A0989E22ACA42C58D59F5A834E02C513	
80	CN = GlobalSign Atlas R3 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	A6032CC352F1E2E3628E162A3047BC7D647E2D601A2C0F26CAAF9AAF7A54239C	
81	CN = GlobalSign ECC OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	87C71553445EB3C33C3E0710711B99E9C7773F04D91AC38A9F4C082EE24101EA	
82	CN = GlobalSign ECC384 SSL CA - G3, O = GlobalSign nv-sa, C = BE	DC6C44AC8A3CD5C3451273F4431526B2EF666062EE763258A928F60BD08E39FE	

83	CN = GlobalSign Organization Validated CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	1E1741A12EB8DA2BD76EA96C04F520359839710F620E80952F48DD0240A12CD8	
84	CN = GlobalSign Organization Validated ECC CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	65EEC0CC6C970CC1CD73659115DC8D904E6F12E6DC8FD4DDA39D54CB30224780	
85	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	1C9737E968AD9DFF8D8D7FCF996A144BB97851A19011A0190C943CAE8D43CFE0	
86	CN = GlobalSign RSA OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	B676FFA3179E8812093A1B5EAFEE876AE7A6AAF231078DAD1BFB21CD2893764A	
87	CN = ICPEdu, O = Rede Nacional de Ensino e Pesquisa - RNP, C = BR	D5E84D9A677E6CDA72DD1C1BA7AD8DDFC25EFAC220C8A9571CEC27C107555702	
88	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	74EF335E5E18788307FB9D89CB704BEC112ABD23487DBFF41C4DED5070F241D9	
89	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	0B339212D7CFF17A2C59E35669B58E77350133750A78DA9404770EDD470DEF76	
90	CN = Trusted Root TLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	91F19CE503C9FE7FF9587D8EFBEF7315AAEE77DC2D14526126493B4AD6FE801F	
91	CN = Trusted Root CA G2, O = GlobalSign nv-sa, OU = Trusted Root, C = BE	6E32A35B599E9087BB1AB35CE73022EC2E26AF34BE388919419C95700CD8E7FB	Revoked on July 11, 2020

92	CN = Trusted Root CA SHA256 G2, O = GlobalSign nv-sa, OU = Trusted Root, C = BE	01FD73EF5E70F526FC9C11F65FE2EE6F7125B3693949227FFD8E459E583C458A	Revoked on July 11, 2020
93	CN = GlobalSign Organization Validation CA - G2, O = GlobalSign nv-sa, C = BE	A66422C4E449D465CB023A7FC7633DE8ED1816985CA41093FC96B3663ED7A43B	Revoked on December 09, 2020
94	CN = GlobalSign Organization Validation CA - G2, O = GlobalSign nv-sa, C = BE	082B243047BF00F584401F538B504BAE9EC060E007FFF28B159C08417068654E	Revoked on December 09, 2020
95	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
96	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
97	CN = Soluti CA - EV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	11FBA4A7EE579C70E1D57F9F9B6A8C209E1219C4F1D3846F83FFCE74E9E5E2CE	
98	CN = Valid Certificadora Digital SSL EV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	8AEFEBD88BE87A30B19C60C5BD0FB5E9FBCD15D5582D5FC9A7499578D68DCECO	

99	CN = GlobalSign Atlas E46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	364DF25CC88F6FB0202C02CD9B8EA02DFE8AC02341EFF5A9DFFC5BE159ED5991	
100	CN = GlobalSign Atlas R46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	E1E15D289697AF3285BF34112A3E60BC11C0C8122DD2B9B3420AB2E5E57883CA	
101	CN = GlobalSign Atlas R6 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	BCE7091355D2417A37F8CFE2AC8F17C2748888BA0EEA90000FC980ECFC2D041F	
102	CN = GlobalSign ECC EV SSL CA 2018, O = GlobalSign nv-sa, C = BE	8F19FFE02FC795ED70765D1436ADDF772FE0F0773DA436EDBDB42A2E30E2E828	
103	CN = GlobalSign ECC384 EV SSL CA - G3, O = GlobalSign nv-sa, C = BE	15549187490314F5177641F0BEB32634AA1230EB2CF2C28AD9C73914FB18ABA0	
104	CN = GlobalSign Extended Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	AED5DD9A5339685DFB029F6D89A14335A96512C3CACC52B2994AF8B6B37FA4D2	
105	CN = GlobalSign R6 RSA EV SSL CA 2019, O = GlobalSign nv-sa, C = BE	57264B82A864DBA1C11EF3F80ABB94CAC3660662B0C22F571FF993B3FBCF76FB	Revoked on July 08, 2020
106	CN = GlobalSign ECC EV SSL CA 2019, O = GlobalSign nv-sa, C = BE	0D3176C58F321AA34C57C8DF7C17D1F4E76C797EC116C9F1D697748ED1FCE7D9	Revoked on July 08, 2020
107	CN = GlobalSign RSA EV SSL CA 2019, O = GlobalSign nv-sa, C = BE	0D6E46784F3B694E9C7506786417BC6F87F9D2F73D19B5E8081612B21137B766	Revoked on July 08, 2020



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108	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
109	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
110	CN = GlobalSign EC Administration CA2, O = GlobalSign nv-sa, C = BE	C883B3ECC6AC0DEE75CDD585E73A209287BC0C9F9D79D488860F63E2EA8A7D2C	Revoked on December 09, 2020
111	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
112	CN = GlobalSign Extended Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	5BB2382D20E09AE56B4F3A5157838F7BAE49E42E3CE53484D66EEB2C0747EF4A	Revoked on January 20, 2021
113	CN = GlobalSign R6 Admin CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	C5B679106958152F83FB5886DDC41F0785193EF67C6975BE3E509F17F29B7A86	Revoked on July 08, 2020
114	CN = GlobalSign GCC E46 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	AA76C50166CD1B865B78D795C2C87A48D4A6229E65F8B38DBD005154EB2ED2DC	

115	CN = GlobalSign GCC E46 UK EV QWAC CA 2020, O = GMO GlobalSign Ltd, C = GB	8814C0688344DE0F21AD1BD076E9F3248AF430E4FE760952E3A150DFAEDCE016	
116	CN = GlobalSign GCC R3 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	D4A5941C7141ED1949A0C6CE9DD45A0AB94DC337902EB0A1209852738EEBE854	
117	CN = GlobalSign GCC R3 UK EV QWAC CA 2020, O = GMO GlobalSign Ltd, C = GB	A33017D9DF494C09D58709107403AEE461B9461E81BA395C28C36693C27D1986	
118	CN = GlobalSign RSA EV QWAC CA 2019, O = GlobalSign nv-sa, C = BE	EDC734C501501DC7A27448FA02C74931F8578BF297B173F34B841E82C6691926	Revoked on February 24, 2021
119	CN = GlobalSign GCC E5 EV QWAC CA 2021, O = GlobalSign nv-sa, C = BE	0DD2C7E0AF8200F49F4192A89AE634D4CE41B80C63B0629CC68E538C316F020E	
120	CN = GlobalSign GCC E5 UK EV QWAC CA 2021, O = GMO GlobalSign Ltd, C = GB	0966A88729C938F9DCD65BB3C63B608618EAE5183ED1FED752B323089687A20E	

Timestamp CAs			
#	Subject	Fingerprint SHA-256	Additional information
121	CN = GlobalSign Partners Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	2A015531A5F3A4CE589BD853C71DD069587322F574D85C9C9B9F9DF8F86C075E	



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122	CN = GlobalSign Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	F642418E4D0C63DEC785C960EFA68BA745F38851744EF81F225CB89305314D50	
123	CN = GlobalSign Partners TSA CA for AATL, O = GlobalSign nv-sa, C = BE	7E8F914119BB1090D6204908E5AE1F40BE24C1491CD7D5CFB6A93618CBC00FD9	
124	CN = GlobalSign TSA CA for AATL, O = GlobalSign nv-sa, C = BE	4D8EB49380EC72AC9FDF21FE1C6DB2E9490C76BEADD1F7B528C3CCD272C8FE28	
125	CN = GlobalSign Timestamping CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	9BF9496777D14425ED0086C1BB2C0707B62A61C194C5162E4F07637AFF166B76	
126	CN = GlobalSign Timestamping CA - R3, O = GlobalSign, OU = Timestamping CA	61C1067083AE044EF1D649CE590BBF09D9D739E025DA8D195F71CFAAD6EBAE69	
127	CN = GlobalSign Timestamping CA - G2, O = GlobalSign nv-sa, C = BE	C977923C771E1A66C925A2B6F501732E678DC9887AFE6BFAAC039D1D9A71F0EC	
128	CN = GlobalSign Timestamping CA, O = GlobalSign, OU = Timestamping CA	D0CAE6947BC77F0B495CA808D6CDE685FCD20225E1E530B635B113ED40728EF3	

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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GlobalSign Management's Assertion

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

The management of GlobalSign is responsible for establishing and maintaining effective controls over its EV SSL CA operations, including its EV SSL CA business practices disclosure on its website, EV SSL key lifecycle management controls, EV SSL certificate lifecycle management control. 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 EV SSL CA services. Based on that assessment, in GlobalSign management's opinion, in providing its EV 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 extended validation SSL ("EV SSL") certificate lifecycle management business practices in the applicable versions of the Certificate Practice Statement and Certificate Policy, as stipulated in [Appendix A](#), including its commitment to provide EV SSL certificates in conformity with the CA/Browser Forum Guidelines, and provided such services in accordance with its disclosed practices.
- Maintained effective controls to provide reasonable assurance that:
 - The integrity of keys and EV SSL certificates it manages was established and protected throughout their life cycles; and
 - EV SSL subscriber information was properly collected, authenticated (for the registration activities performed by GlobalSign)
- 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 - Extended Validation SSL, Version 1.7.3](#)



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Leuven, Belgium

Signed by: Arvid Vermote
Function: Chief Information Security Officer

June 29, 2021



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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

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	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	

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



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G3, O = GMO GlobalSign Inc., L = Portsmouth, ST = New Hampshire, C = US		
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DV SSL Issuing CAs			
#	Subject	Fingerprint SHA-256	Additional information
52	CN = GlobalSign Domain Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	09BC1B137C031239EF788673E94EB17F5F3ECAB07D3ADBF485E75ABFAAF3B9A	
53	CN = Soluti CA - DV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	5C452334D9C9C9A2EA42CC77A7165E1795EE9D84EB70CB784B47EA9D92A582D9	
54	CN = Valid Certificadora Digital AlphaSSL CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	04DE47A9CDD3091CFC5EF6AAA3B7D4B53E13C4D4DC02364F6C0B408742EC3C76	
55	CN = Valid Certificadora Digital SSL DV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	FCF26FBC1B2A25A76AB4EA92B2CBEF367E0131091C802DA49898F78AE54B30F8	
56	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	8C2410F76B149CA062B420AB611B6BF0A06E6E799A29587E4D4EC16D0537B7EA	
57	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	EE793643199474ED60EFDC8CCDE4D37445921683593AA751BBF8EE491A391E97	
58	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	BFDF4CF3F143AD0DB912D8AB3A7C12F617B9EA60CE8B1F4E44F74270FB21B19B	
59	CN = GlobalSign Atlas ECCR5 DV TLS	72132ECF2F8C75B5F214C00ED14562E14912B7F2F4D2633180F3E4918980FEC4	

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	CA 2020, O = GlobalSign nv-sa, C = BE		
60	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	6F335DD7CD4AAA1D9140F290E9E7B3498A7CC35A244AA300E146BA2D9D02B960	
61	CN = GlobalSign Atlas R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	B65FE6A1BF2D52FF68B7D3E9D0F06B300A1C3F248309B70405CA7BDEC054BDDD	
62	CN = GlobalSign Atlas R3 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	59F5FF92B608A0119FF1DD7C603E0EB16F4FEAD9D4717AC3BC62D286AE399CDA	
63	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	37D080A5E9A526663E56EE20DE4BD9F7952DACC341491439080167AD5DD18CAC	
64	CN = GlobalSign GCC R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	762538439509C411C437D3C567563E1378671281FC4A1464ADD031870843676E	
65	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	5A817EADA4AD78734EBB2CF674352D97F4352290C40EAF10E764B1EAC075B0E6	
66	CN = AlphaSSL CA - SHA256 - G2, O = AlphaSSL	933E4A2D8DB1FF9FF0E508EA7F1637E074F660FE6F365A2233DFC2B52C889D98	
67	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	669E7727A92BE72D9718E16922DC1BC1492B1AF33FA4793E68D8778F19A2EBE0	
68	CN = GlobalSign HV ECC DV SSL CA 2018, O = GlobalSign nv-sa, C = BE	4B0D1392D39157353207A64CCB14683DDE9D2CED1FB58B16E038BE5707C27813	Revoked on July 08, 2020
69	CN = GlobalSign HV RSA DV SSL CA 2018,	54C37A8E853FD1D6378D378B939307EC321A31CC1A5A89E7180633BC13F18762	Revoked on October 21, 2020

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	O = GlobalSign nv-sa, C = BE		
70	CN = GlobalSign RSA DV SSL CA 2018, O = GlobalSign nv-sa, C = BE	9E898ED03FA46969690DAD73C7296675045FF9B5A0100A399BEB8435A98F5185	Revoked on January 20, 2021
71	CN = AlphaSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	4C013B8854689CB6626CC087B4D4FCCA45104E2D73BFADF33A6979ED124B7837	Revoked on December 09, 2020
72	CN = Cloudflare ECC DV CA, O = Cloudflare, Inc., L = San Francisco, ST = CA, C = US	0F4517487FD0A8BA3194A6122450A7B32C987FFF16F2D4AF54E6EDB6FED68E08	Revoked on September 16, 2020
73	CN = Cloudflare RSA DV CA, O = Cloudflare, Inc., L = San Francisco, ST = CA, C = US	D439F88E8F2F80A306F910DCDE548D71BBFD99A85FC7034EFB610E3749550932	Revoked on September 16, 2020
74	CN = AlphaSSL CA - G2, O = AlphaSSL	1DCA65B86A57336BA5AFB7214A36F7D6EDE698EB4F03387CB3AD6BBD3A93BAB6	Revoked on December 09, 2020
75	CN = GlobalSign Domain Validation CA - G2, O = GlobalSign nv-sa, C = BE	E87EA2BED6C6203B2C55B00FE49D2876FBA64702105AEB748B865A918B5C7D27	Revoked on December 09, 2020
76	CN = GlobalSign Domain Validation CA - G2, O = GlobalSign nv-sa, C = BE	BA0E2B6BF2C98ED2C3B1C1C08A1BBDCAF9270AC528A3194301DD2A0B6B67B9B3	Revoked on December 09, 2020
77	CN = GlobalSign Domain Validation CA - G2, O = GlobalSign nv-sa, C = BE	4E153A588877688F1A0C103A084C2EDB3AD1D8C480CF03D8AB6FED47D9204370	Revoked on December 09, 2020

OV SSL Issuing CAs

#	Subject	Fingerprint SHA-256	Additional information
78	CN = GlobalSign Organization	699D54B7482A5D329331EA0415CC2EDCD60FDA01D19E71D054196BCE0677735C	

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	Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE		
79	CN = GlobalSign Atlas ECCR5 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	2EB8A1317288F08233E6883CEBE67EA6A0989E22ACA42C58D59F5A834E02C513	
80	CN = GlobalSign Atlas R3 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	A6032CC352F1E2E3628E162A3047BC7D647E2D601A2C0F26CAA9AAAF7A54239C	
81	CN = GlobalSign ECC OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	87C71553445EB3C33C3E0710711B99E9C7773F04D91AC38A9F4C082EE24101EA	
82	CN = GlobalSign ECC384 SSL CA - G3, O = GlobalSign nv-sa, C = BE	DC6C44AC8A3CD5C3451273F4431526B2EF666062EE763258A928F60BD08E39FE	
83	CN = GlobalSign Organization Validated CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	1E1741A12EB8DA2BD76EA96C04F520359839710F620E80952F48DD0240A12CD8	
84	CN = GlobalSign Organization Validated ECC CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	65EEC0CC6C970CC1CD73659115DC8D904E6F12E6DC8FD4DDA39D54CB30224780	
85	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	1C9737E968AD9DFF8D8D7FCF996A144BB97851A19011A0190C943CAE8D43CFE0	
86	CN = GlobalSign RSA OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	B676FFA3179E8812093A1B5EAFEE876AE7A6AAF231078DAD1BFB21CD2893764A	
87	CN = ICPEdu, O = Rede Nacional de Ensino e Pesquisa - RNP,	D5E84D9A677E6CDA72DD1C1BA7AD8DDFC25EFAC220C8A9571CEC27C107555702	

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	C = BR		
88	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	74EF335E5E18788307FB9D89CB704BEC112ABD23487DBFF41C4DED5070F241D9	
89	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	0B339212D7CFF17A2C59E35669B58E77350133750A78DA9404770EDD470DEF76	
90	CN = Trusted Root TLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	91F19CE503C9FE7FF9587D8EFBEF7315AAEE77DC2D14526126493B4AD6FE801F	
91	CN = Trusted Root CA G2, O = GlobalSign nv-sa, OU = Trusted Root, C = BE	6E32A35B599E9087BB1AB35CE73022EC2E26AF34BE388919419C95700CD8E7FB	Revoked on July 11, 2020
92	CN = Trusted Root CA SHA256 G2, O = GlobalSign nv-sa, OU = Trusted Root, C = BE	01FD73EF5E70F526FC9C11F65FE2EE6F7125B3693949227FFD8E459E583C458A	Revoked on July 11, 2020
93	CN = GlobalSign Organization Validation CA - G2, O = GlobalSign nv-sa, C = BE	A66422C4E449D465CB023A7FC7633DE8ED1816985CA41093FC96B3663ED7A43B	Revoked on December 09, 2020
94	CN = GlobalSign Organization Validation CA - G2, O = GlobalSign nv-sa, C = BE	082B243047BF00F584401F538B504BAE9EC060E007FFF28B159C08417068654E	Revoked on December 09, 2020
95	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
96	CN = GlobalSign Organization Validation CA - G2,	A6233ECB77053F72937E894372A601ED3ABEA90CC3B5D89512720BF3FFCBDC9D	Revoked on December 9, 2020

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	O = GlobalSign nv-sa, C = BE		
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EV SSL Issuing CAs			
#	Subject	Fingerprint SHA-256	Additional information
97	CN = Soluti CA - EV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	11FBA4A7EE579C70E1D57F9F9B6A8C209E1219C4F1D3846F83FFCE74E9E5E2CE	
98	CN = Valid Certificadora Digital SSL EV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	8AEFEBD88BE87A30B19C60C5BD0FB5E9FBCD15D5582D5FC9A7499578D68DCEC0	
99	CN = GlobalSign Atlas E46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	364DF25CC88F6FB0202C02CD9B8EA02DFE8AC02341EFF5A9DFFC5BE159ED5991	
100	CN = GlobalSign Atlas R46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	E1E15D289697AF3285BF34112A3E60BC11C0C8122DD2B9B3420AB2E5E57883CA	
101	CN = GlobalSign Atlas R6 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	BCE7091355D2417A37F8CFE2AC8F17C2748888BA0EEA90000FC980ECFC2D041F	
102	CN = GlobalSign ECC EV SSL CA 2018, O = GlobalSign nv-sa, C = BE	8F19FFE02FC795ED70765D1436ADDF772FE0F0773DA436EDBDB42A2E30E2E828	
103	CN = GlobalSign ECC384 EV SSL CA - G3, O = GlobalSign nv-sa, C = BE	15549187490314F5177641F0BEB32634AA1230EB2CF2C28AD9C73914FB18ABA0	
104	CN = GlobalSign Extended Validation CA - SHA256 - G3, O = GlobalSign nv-sa,	AED5DD9A5339685DFB029F6D89A14335A96512C3CACC52B2994AF8B6B37FA4D2	

	C = BE		
105	CN = GlobalSign R6 RSA EV SSL CA 2019, O = GlobalSign nv-sa, C = BE	57264B82A864DBA1C11EF3F80ABB94CAC3660662B0C22F571FF993B3FBCF76FB	Revoked on July 08, 2020
106	CN = GlobalSign ECC EV SSL CA 2019, O = GlobalSign nv-sa, C = BE	0D3176C58F321AA34C57C8DF7C17D1F4E76C797EC116C9F1D697748ED1FCE7D9	Revoked on July 08, 2020
107	CN = GlobalSign RSA EV SSL CA 2019, O = GlobalSign nv-sa, C = BE	0D6E46784F3B694E9C7506786417BC6F87F9D2F73D19B5E8081612B21137B766	Revoked on July 08, 2020
108	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
109	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
110	CN = GlobalSign EC Administration CA2, O = GlobalSign nv-sa, C = BE	C883B3ECC6AC0DEE75CDD585E73A209287BC0C9F9D79D488860F63E2EA8A7D2C	Revoked on December 09, 2020
111	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
112	CN = GlobalSign Extended Validation	5BB2382D20E09AE56B4F3A5157838F7BAE49E42E3CE53484D66EEB2C0747EF4A	Revoked on January 20, 2021



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	CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE		
113	CN = GlobalSign R6 Admin CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	C5B679106958152F83FB5886DDC41F0785193EF67C6975BE3E509F17F29B7A86	Revoked on July 08, 2020
114	CN = GlobalSign GCC E46 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	AA76C50166CD1B865B78D795C2C87A48D4A6229E65F8B38DBD005154EB2ED2DC	
115	CN = GlobalSign GCC E46 UK EV QWAC CA 2020, O = GMO GlobalSign Ltd, C = GB	8814C0688344DE0F21AD1BD076E9F3248AF430E4FE760952E3A150DFAEDCE016	
116	CN = GlobalSign GCC R3 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	D4A5941C7141ED1949A0C6CE9DD45A0AB94DC337902EB0A1209852738EEBE854	
117	CN = GlobalSign GCC R3 UK EV QWAC CA 2020, O = GMO GlobalSign Ltd, C = GB	A33017D9DF494C09D58709107403AEE461B9461E81BA395C28C36693C27D1986	
118	CN = GlobalSign RSA EV QWAC CA 2019, O = GlobalSign nv-sa, C = BE	EDC734C501501DC7A27448FA02C74931F8578BF297B173F34B841E82C6691926	Revoked on February 24, 2021
119	CN = GlobalSign GCC E5 EV QWAC CA 2021, O = GlobalSign nv-sa, C = BE	0DD2C7E0AF8200F49F4192A89AE634D4CE41B80C63B0629CC68E538C316F020E	
120	CN = GlobalSign GCC E5 UK EV QWAC CA 2021, O = GMO GlobalSign Ltd, C = GB	0966A88729C938F9DCD65BB3C63B608618EAE5183ED1FED752B323089687A20E	

Timestamp CAs

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#	Subject	Fingerprint SHA-256	Additional information
121	CN = GlobalSign Partners Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	2A015531A5F3A4CE589BD853C71DD069587322F574D85C9C9B9F9DF8F86C075E	
122	CN = GlobalSign Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	F642418E4D0C63DEC785C960EFA68BA745F38851744EF81F225CB89305314D50	
123	CN = GlobalSign Partners TSA CA for AATL, O = GlobalSign nv-sa, C = BE	7E8F914119BB1090D6204908E5AE1F40BE24C1491CD7D5CFB6A93618CBC00FD9	
124	CN = GlobalSign TSA CA for AATL, O = GlobalSign nv-sa, C = BE	4D8EB49380EC72AC9FDF21FE1C6DB2E9490C76BEADD1F7B528C3CCD272C8FE28	
125	CN = GlobalSign Timestamping CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	9BF9496777D14425ED0086C1BB2C0707B62A61C194C5162E4F07637AFF166B76	
126	CN = GlobalSign Timestamping CA - R3, O = GlobalSign, OU = Timestamping CA	61C1067083AE044EF1D649CE590BBF09D9D739E025DA8D195F71CFAAD6EBAE69	
127	CN = GlobalSign Timestamping CA - G2, O = GlobalSign nv-sa, C = BE	C977923C771E1A66C925A2B6F501732E678DC9887AFE6BFAAC039D1D9A71F0EC	
128	CN = GlobalSign Timestamping CA, O = GlobalSign, OU = Timestamping CA	D0CAE6947BC77F0B495CA808D6CDE685FCD20225E1E530B635B113ED40728EF3	

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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