

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, except for matters described in the assertion, for its Certification Authority (CA) operations at its locations as detailed in [Appendix C](#), throughout the period April 1, 2021 to March 31, 2022 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 1.7.8](#).

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 1.7.8](#).

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, *Quality Control for Firms that Perform Audits and Reviews of Historical Financial Information, and Other Assurance and Related Services, Engagements* and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Practitioner's responsibilities

Our responsibility is to express an opinion on management's assertion based on our procedures. We conducted our procedures in accordance with International Standard on Assurance Engagements 3000, *Assurance Engagements Other than Audits or Reviews of Historical Financial Information*, issued by the International Auditing and Assurance Standards Board. This standard requires that we

plan and perform our procedures to obtain reasonable assurance about whether, in all material respects, management’s assertion is fairly stated, and, accordingly, included:

1. Obtaining 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.

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

There are inherent limitations in the effectiveness of any system of internal control, including the possibility of human error and the circumvention of controls. For example, because of their nature, controls may not prevent, or detect unauthorised access to systems and information, or failure to comply with internal and external policies or requirements. Also, the projection to the future of any conclusions based on our findings is subject to the risk that controls may become ineffective.

Basis for qualified opinion

During our procedures, we noted the following that caused a qualification of our opinion:

	Observation	Relevant WebTrust criteria
1	We noted that GlobalSign has issued multiple certificates for which the subject information was not in accordance with the EV SSL requirements i.e., certificates contained incorrect serialNumber and businessCategory as disclosed in the Bugzilla incidents 1714968 and 1744518 (see Appendix D) and other certificates contained incorrect localityName, stateOrProvinceName or countryName as disclosed in the Bugzilla incidents 1707073 and 1708834 (see Appendix D). A part of these certificates was misissued because of the logic failure in the automation scripts used by GlobalSign and a part of the	Principle 2, Criterion 2.2.1: The CA maintains controls to provide reasonable assurance that EV SSL certificates issued meet the minimum requirements for Certificate Content and Profile, including additional technical requirements as specifically established in section 9 of the EV SSL Guidelines, including the following: <ul style="list-style-type: none"> ▸ Issuer Common Name Field ▸ Issuer Domain Component Field ▸ Issuer Organization Name Field ▸ Issuer Country Name Field ▸ Full legal organization name and if space is available the d/b/a name may also be disclosed

	<p>certificates was misissued because the information provided by the Applicant was not sufficiently verified as per the steps established by the EV SSL requirements.</p> <p>This caused WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL v1.7.8, Principle 2, Criterion 2.2.1 and 4.1 to not be met.</p>	<ul style="list-style-type: none"> ▸ Subject Alternative Name Extension ▸ Subject Common Name Field ▸ Subject Business Category Field ▸ Subject Jurisdiction of Incorporation or Registration Field ▸ Subject Registration Number Field ▸ Subject Physical Address of Place of Business Field ▸ Subject Organization Identifier Field ▸ Other Subject Attributes <p>Principle 2, Criterion 4.1: The CA maintains controls to provide reasonable assurance that the following information provided by the Applicant is verified directly by performing the steps established by the EV SSL Guidelines:</p> <p>For Private Organization Subjects:</p> <ul style="list-style-type: none"> ▸ legal existence and identity ▸ legal existence and identity - assumed name ▸ organization name ▸ registration number ▸ registered agent ▸ relationship to the parent, subsidiary, or affiliate (if applicable) <p>For Government Entities:</p> <ul style="list-style-type: none"> ▸ legal existence ▸ entity name ▸ registration number <p>For Business Entities:</p> <ul style="list-style-type: none"> ▸ legal existence ▸ organization name ▸ registration number ▸ principal individual ▸ relationship to the parent, subsidiary, or affiliate (if applicable) <p>For Non-Commercial Entities:</p> <ul style="list-style-type: none"> ▸ International Organization Entities ▸ legal entities ▸ entity name ▸ registration number
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Qualified Opinion

In our opinion, except for the matters described in the basis for qualified opinion section above, throughout the period April 1, 2021 to March 31, 2022, GlobalSign has, in all material respects:

- ▶ 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 1.7.8](#).

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 1.7.8](#), nor the suitability of any of GlobalSign’s services for any customer’s intended purpose.

EY Bedrijfsrevisoren BV
Diegem, Belgium

Christel Weymeersch, Partner*

June 29, 2022

* 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 9.7	March 30, 2021	September 30, 2021
Version 9.8	September 30, 2021	November 30, 2021
Version 9.9	November 30, 2021	March 15, 2022
Version 9.10	March 15, 2022	

Certificate Policy	Begin Effective Date	End Effective Date
Version 6.7	March 30, 2021	September 30, 2021
Version 6.8	September 30, 2021	November 30, 2021
Version 6.9	November 30, 2021	March 15, 2022
Version 6.10	March 15, 2022	

Appendix B - In-Scope CAs

Root CA			
#	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	CBB522D7B7F127AD6A0113865BDF1CD4102E7D0759AF635A7CF4720DC963C53 B	
3	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	179FBC148A3DD00FD24EA13458CC43BFA7F59C8182D783A513F6EBEC100C8924	
4	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	2CABEAFF37D06CA22ABA7391C0033D25982952C453647349763A3AB5AD6CCF6 9	
5	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	4FA3126D8D3A11D1C4855A4F807CBAD6CF919D3A5A88B03BEA2C6372D93C40C 9	
6	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	CBB9C44D84B8043E1050EA31A69F514955D7BFD2E2C6B49301019AD61D9F505 8	
7	CN = GlobalSign Secure Mail Root R45, O = GlobalSign nv-sa, C = BE	319AF0A7729E6F89269C131EA6A3A16FCD86389FDCAB3C47A4A675C161A3F97 4	
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	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	

DV TLS Issuing CA			
#	Subject	Fingerprint SHA-256	Additional information
17	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	EE793643199474ED60EFDC8CCDE4D37445921683593AA751BBF8EE491A391E97	



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18	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	BFDF4CF3F143AD0DB912D8AB3A7C12F617B9EA60CE8B1F4E44F74270FB21B19B	
19	CN = GlobalSign Atlas R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	B65FE6A1BF2D52FF68B7D3E9D0F06B300A1C3F248309B70405CA7BDEC054BDDD	
20	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	8C2410F76B149CA062B420AB611B6BF0A06E6E799A29587E4D4EC16D0537B7E A	
21	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	37D080A5E9A526663E56EE20DE4BD9F7952DACC341491439080167AD5DD18CA C	
22	CN = Valid Certificadora Digital SSL DV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	FCF26FBC1B2A25A76AB4EA92B2CBEF367E0131091C802DA49898F78AE54B30F8	
23	CN = Valid Certificadora Digital AlphaSSL CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	04DE47A9CDD3091CFC5EF6AAA3B7D4B53E13C4D4DC02364F6C0B408742EC3C7 6	
24	CN = Soluti CA - DV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	5C452334D9C9C9A2EA42CC77A7165E1795EE9D84EB70CB784B47EA9D92A582D 9	
25	CN = GlobalSign Domain Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	09BC1B137C031239EF788673E94EB17F5F3ECAB07D3ADBFB485E75ABFAAF3B9A	
26	CN = GlobalSign GCC R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	762538439509C411C437D3C567563E1378671281FC4A1464ADD031870843676 E	

27	CN = AlphaSSL CA - SHA256 - G2, O = AlphaSSL	933E4A2D8DB1FF9FF0E508EA7F1637E074F660FE6F365A2233DFC2B52C889D98	
28	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	5A817EADA4AD78734EBB2CF674352D97F4352290C40EAF10E764B1EAC075B0E6	
29	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	669E7727A92BE72D9718E16922DC1BC1492B1AF33FA4793E68D8778F19A2EBE0	
30	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	6F335DD7CD4AAA1D9140F290E9E7B3498A7CC35A244AA300E146BA2D9D02B960	
31	CN = GlobalSign Atlas R3 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	59F5FF92B608A0119FF1DD7C603E0EB16F4FEAD9D4717AC3BC62D286AE399CDA	
32	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	72132ECF2F8C75B5F214C00ED14562E14912B7F2F4D2633180F3E4918980FEC4	Revoked on November 17, 2021

OV TLS Issuing CA			
#	Subject	Fingerprint SHA-256	Additional information
33	CN = Trusted Root TLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	91F19CE503C9FE7FF9587D8EFBEF7315AAEE77DC2D14526126493B4AD6FE801F	
34	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	0B339212D7CFF17A2C59E35669B58E77350133750A78DA9404770EDD470DEF76	



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35	CN = GlobalSign RSA OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	B676FFA3179E8812093A1B5EAFEE876AE7A6AAF231078DAD1BFB21CD2893764 A	
36	CN = GlobalSign Organization Validated ECC CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	65EEC0CC6C970CC1CD73659115DC8D904E6F12E6DC8FD4DDA39D54CB3022478 0	
37	CN = GlobalSign ECC OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	87C71553445EB3C33C3E0710711B99E9C7773F04D91AC38A9F4C082EE24101EA	
38	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	74EF335E5E18788307FB9D89CB704BEC112ABD23487DBFF41C4DED5070F241D9	
39	CN = GlobalSign ECC384 SSL CA - G3, O = GlobalSign nv-sa, C = BE	DC6C44AC8A3CD5C3451273F4431526B2EF666062EE763258A928F60BD08E39FE	
40	CN = GlobalSign Organization Validated CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	1E1741A12EB8DA2BD76EA96C04F520359839710F620E80952F48DD0240A12CD 8	
41	CN = GlobalSign Organization Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	699D54B7482A5D329331EA0415CC2EDCD60FDA01D19E71D054196BCE0677735 C	
42	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	1C9737E968AD9DFF8D8D7FCF996A144BB97851A19011A0190C943CAE8D43CFE 0	
43	CN = GlobalSign Atlas ECCR5 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	2EB8A1317288F08233E6883CEBE67EA6A0989E22ACA42C58D59F5A834E02C513	
44	CN = GlobalSign Atlas R3 OV TLS CA 2020-12,	A6032CC352F1E2E3628E162A3047BC7D647E2D601A2C0F26CAAF9AAF7A54239 C	



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	O = GlobalSign nv-sa, C = BE		
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EV TLS Issuing CA			
#	Subject	Fingerprint SHA-256	Additional information
45	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	5E2A73EE6069DE65322DCF0430176B385F5238C296EE4392E7ED7DB4BE908A40	
46	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	398DC562DC098CF75F3A151216E583380C279444B0D63E766D9DF6F47D04C60	
47	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	256602DC8A8041B2EDCOCAE611A6A98D9B39AD4DE3E19F62DC0A0A1958B7227 1	
48	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	9C9D5E986B5BEA7A1EC8457EBCAA600D2435803B91FEC97C4E5043BE6742D4B 1	
49	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	4CFA14BC7E8F48D4677B0604777AF76AB0C55B326F8B97BA95F6ACE115C05F16	
50	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	C9A74009DAE194A40BD122ABD015D44E93CB7879B0949054A31042EF4C99E5D 6	
51	CN = GlobalSign Atlas R6 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	0ABB1CDE53CCAC170483DAFCD3CDB9F2622BA7E47D31EC0FD3DB271B4AAA530 3	

52	CN = GlobalSign Atlas R46 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	385AA00A1848F807F665561E888B0D4F69614052D825F3C33970E00F4C3658DD	
53	CN = GlobalSign Atlas E46 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	44E683576E1C960D784D17BB2325C25CF1BE4E20470C31D9D73CACED496C95C9	
54	CN = CUISEC GCC R3 TLS EV CA 2021, O = 联通智慧安全科技有限公司, C = CN	9BFABD8D91284500B4D412C5725C87CB3A013F940FF1E62810E6929C69393ED9	
55	CN = VTB BANK GCC R6 EV CA 2021, O = VTB BANK (PJSC), C = RU	52C09A2CA179368703A1857004CD5A3C87D3BDAC3A558E143EF3508FBEEB1032	Revoked on April 06, 2022
56	CN = GlobalSign GCC E5 EV QWAC CA 2021, O = GlobalSign nv-sa, C = BE	0DD2C7E0AF8200F49F4192A89AE634D4CE41B80C63B0629CC68E538C316F020E	
57	CN = GlobalSign Extended Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	AED5DD9A5339685DFB029F6D89A14335A96512C3CACC52B2994AF8B6B37FA4D2	
58	CN = GlobalSign ECC EV SSL CA 2018, O = GlobalSign nv-sa, C = BE	8F19FFE02FC795ED70765D1436ADDF772FE0F0773DA436EDBDB42A2E30E2E828	
59	CN = Valid Certificadora Digital SSL EV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	8AEFEBD88BE87A30B19C60C5BD0FB5E9FBCD15D5582D5FC9A7499578D68DCEC0	
60	CN = Soluti CA - EV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	11FBA4A7EE579C70E1D57F9F9B6A8C209E1219C4F1D3846F83FFCE74E9E5E2CE	
61	CN = GlobalSign ECC384 EV SSL CA - G3,	15549187490314F5177641F0BEB32634AA1230EB2CF2C28AD9C73914FB18ABA0	



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	O = GlobalSign nv-sa, C = BE		
62	CN = GlobalSign Atlas R6 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	BCE7091355D2417A37F8CFE2AC8F17C2748888BA0EEA90000FC980ECFC2D041F	
63	CN = GlobalSign Atlas E46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	364DF25CC88F6FB0202C02CD9B8EA02DFE8AC02341EFF5A9DFFC5BE159ED5991	
64	CN = GlobalSign Atlas R46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	E1E15D289697AF3285BF34112A3E60BC11C0C8122DD2B9B3420AB2E5E57883C A	
65	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q1, O = GlobalSign nv-sa, C = BE	F2BC379B1EF45624D8F822B6E359502D470F384E53C082F7AE21869C13A5D345	
66	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q2, O = GlobalSign nv-sa, C = BE	250AFA50B60D30D1217D00E7DD8CCE6B51F5C0B6A6369324842C37DEB44F971 5	
67	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q3, O = GlobalSign nv-sa, C = BE	9D51DC2750A13BD627D99FDCC720D1904FE81059110BB9DE11B039A4B2ECA53 1	
68	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q4, O = GlobalSign nv-sa, C = BE	451FA3A18064B4DD03ADFE8B8BBF16258CB98A1A6FEE5D6B0A37C98A0B5E6DA E	
69	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q1, O = GlobalSign nv-sa, C = BE	4D81D18D57CDA96440CBFD0FA05CC387B7C69DE3A9E68B4036E1168EE2B7BD2 1	
70	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q2,	ED2B6C6F6C669EEC6C158B0FD61E4454185C42842523866F3B3EE9B1F0F62882	



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	O = GlobalSign nv-sa, C = BE		
71	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q3, O = GlobalSign nv-sa, C = BE	ODA5820FD4E4FCF9B9F94C140DB0F06D670D86FCB1BDD9597BCA8731532F353C	
72	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q4, O = GlobalSign nv-sa, C = BE	4EF99E6A8B14F69938715371B1D853472534CBF595A743CE993E7B386F99B895	
73	CN = GlobalSign GCC R3 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	D4A5941C7141ED1949A0C6CE9DD45A0AB94DC337902EB0A1209852738EEBE85 4	
74	CN = GlobalSign GCC E46 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	AA76C50166CD1B865B78D795C2C87A48D4A6229E65F8B38DBD005154EB2ED2D C	Revoked on November 17, 2021
75	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q4, O = GlobalSign nv-sa, C = BE	B51D85A08FACB06F97FDF58563749003033EE77DD583986204499197CA8E7077	
76	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q3, O = GlobalSign nv-sa, C = BE	29C840D062AC862DB4D20928D2AEFD83B35A46BD4533995FF2EFD3E3EE8CFFD9	
77	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q2, O = GlobalSign nv-sa, C = BE	A40C91E466D62CDB32B7139E8748F0EB5A817F6BB8A9F999A7A9BF4306D6D5D 5	
78	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q1, O = GlobalSign nv-sa, C = BE	A7DCFD3D09377C39BA3A7F630E052EC593E9726D1DA57229E599D15AD6DCCA7 B	
79	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q4,	2DA52277662DC1C779E2439FAF58F85F87DBA73E0F16F1B0EB310A4919CFC3BA	

	O = GlobalSign nv-sa, C = BE		
80	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q3, O = GlobalSign nv-sa, C = BE	430B172A6F7146B16A75BCC5BFA1D60C61DEEAA2ABAC61B4394E4A6B291C48C C	
81	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q2, O = GlobalSign nv-sa, C = BE	F4C5F3956379493830DE7456E0A55D6FBC1B8EA08B756488FF005B6C394A69C7	
82	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q1, O = GlobalSign nv-sa, C = BE	F9120A71D50697B9992A7357A0A9A0DDC4BFC3598FCB4F01642964824D3CF27 6	
83	CN = GlobalSign GCC E5 UK EV QWAC CA 2021, O = GMO GlobalSign Ltd, C = GB	0966A88729C938F9DCD65BB3C63B608618EAE5183ED1FED752B323089687A20 E	
84	CN = GlobalSign GCC R3 UK EV QWAC CA 2020, O = GMO GlobalSign Ltd, C = GB	A33017D9DF494C09D58709107403AEE461B9461E81BA395C28C36693C27D198 6	
85	CN = GlobalSign GCC E46 UK EV QWAC CA 2020, O = GMO GlobalSign Ltd, C = GB	8814C0688344DE0F21AD1BD076E9F3248AF430E4FE760952E3A150DFAEDCE016	Revoked on November 17, 2021

Other CA			
#	Subject	Fingerprint SHA-256	Additional information
86	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	1DF6054D6641404633641BB5FA3742FDA7D075E2514840AB61E00CCBBB7D341 D	Cross Sign CA

87	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	45CB1D874CB03BD5C5B6E079C8FC29E51521EE5628486301964A41F94BA59F88	Cross Sign CA
88	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	3F319B2AFED4A0F75127BE59925550D0428E68763A09E273EB6A9FF8D18DBB5B	Cross Sign CA
89	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A63C1398B5F8DD2D432FBE4C2C19142BEA6D5D0221FAE794718AE7597ACCA96 D	Cross Sign CA
90	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	0F1554C2FD591B0256A608E1C136A837E7A6E041561EE08A911B2AFDCD3C6C1 B	Cross Sign CA
91	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	DDA8DA736187D76F4F0ED5A5F667B54D99A98AE06091D0E3A01714E9221695A D	Cross Sign CA
92	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A5E33C28E3013A71F5F760AE3B16595090043D2EC5209EC52903C4FBAD258DA D	Cross Sign CA
93	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	F349954E8FB6D44011BCB789D97D9A2CB2032BD5F0B598D1FB8A099F5848D523	Cross Sign CA
94	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	C84E1378B974A991ACDCDD733421E3061E6FA21A0491C8902BAFDE3855E0063 E	Cross Sign CA
95	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	33EF151EFB08D1C44FB85CC3F23EC6873014E9F881691BD4938B7F251580B694	Cross Sign CA
96	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	445EEC78BC61215044A0379656AA2D5DB5E42F76CB70B8D14C2077AA943D4EB B	Cross Sign CA
97	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	C94FEDDA4E8608908580BC7F87B434E03BB262E42F64C63820A8F50FB17C1CEC	Cross Sign CA
98	CN = GlobalSign Root CA, OU = Root CA,	6ADD368DA35458A09EDF880D0570E863ADC8507D49406B4D97E44E53BC9308C 9	Cross Sign CA

	O = GlobalSign nv-sa, C = BE		
99	CN = GlobalSign CA for AATL - SHA256 - G2, O = GlobalSign nv-sa, C = BE	AA89C466E9D06882C0DAAF72BE0F0FBCFE7C1EF2AAAD190640C4AD44F5517F34	
100	CN = GlobalSign CA for AATL - SHA384 - G4, O = GlobalSign nv-sa, C = BE	ACOAB963BB5F3DA05FBC8687F98C2B6EA0BB499E6118C1A9136B1BC7C3C71A6 B	

Timestamp CA			
#	Subject	Fingerprint SHA-256	Additional information
101	CN = GlobalSign Partners Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	2A015531A5F3A4CE589BD853C71DD069587322F574D85C9C9B9F9DF8F86C075E	
102	CN = GlobalSign TSA CA for AATL, O = GlobalSign nv-sa, C = BE	4D8EB49380EC72AC9FDF21FE1C6DB2E9490C76BEADD1F7B528C3CCD272C8FE28	
103	CN = GlobalSign Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	F642418E4D0C63DEC785C960EFA68BA745F38851744EF81F225CB89305314D50	
104	CN = GlobalSign Partners TSA CA for AATL, O = GlobalSign nv-sa, C = BE	7E8F914119BB1090D6204908E5AE1F40BE24C1491CD7D5CFB6A93618CBC00FD9	
105	CN = GlobalSign Timestamping CA - G2, O = GlobalSign nv-sa, C = BE	C977923C771E1A66C925A2B6F501732E678DC9887AFE6BFAAC039D1D9A71FOE C	
106	CN = GlobalSign Timestamping CA - SHA256 - G2,	9BF9496777D14425ED0086C1BB2C0707B62A61C194C5162E4F07637AFF166B76	



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	O = GlobalSign nv-sa, C = BE		
107	CN = GlobalSign Timestamping CA, O = GlobalSign, OU = Timestamping CA	DOCAE6947BC77F0B495CA808D6CDE685FCD20225E1E530B635B113ED40728EF3	
108	CN = GlobalSign Timestamping CA - R3, O = GlobalSign, OU = Timestamping CA	61C1067083AE044EF1D649CE590BBF09D9D739E025DA8D195F71CFAAD6EBAE6 9	

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
SG-03	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

Bugzilla ID	Disclosure	Publicly Disclosed Link
1649937	GlobalSign: Incorrect OCSP Delegated Responder Certificate	Bugzilla Ticket Link
1651447	GlobalSign: Failure to revoke noncompliant ICA within 7 days	Bugzilla Ticket Link
1690807	RSA-1024 leaf certificate issued after 2013-12-31	Bugzilla Ticket Link
1707073	GlobalSign: Invalid countryName	Bugzilla Ticket Link
1708834	GlobalSign: Invalid stateOrProvinceName and locality pair	Bugzilla Ticket Link
1714968	GlobalSign: Incorrect RegNumber-Org Type combination	Bugzilla Ticket Link
1744518	GlobalSign: EV certificates with serialNumber Government Entity and businessCategory Private Organization	Bugzilla Ticket Link
1759854	GlobalSign: Certificate issued to FQDN with malformed CAA	Bugzilla Ticket Link
1760311	GlobalSign: OCSP responder certificates with more than 64 characters in CN	Bugzilla Ticket Link



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. During our assessment, we noted the following observations which caused the relevant criteria to not be met:

	Observation	Relevant WebTrust criteria
1	<p>We noted that GlobalSign has issued multiple certificates for which the subject information was not in accordance with the EV SSL requirements i.e., certificates contained incorrect serialNumber and businessCategory as disclosed in the Bugzilla incidents 1714968 and 1744518 (see Appendix D) and other certificates contained incorrect localityName, stateOrProvinceName or countryName as disclosed in the Bugzilla incidents 1707073 and 1708834 (see Appendix D). A part of these certificates was misissued because of the logic failure in the automation scripts used by GlobalSign and a part of the certificates was misissued because the information provided by the Applicant was not sufficiently verified as per the steps established by the EV SSL requirements.</p> <p>This caused WebTrust Principles and Criteria for Certification Authorities – Extended Validation SSL v1.7.8, Principle 2, Criterion 2.2.1 and 4.1 to not be met.</p>	<p>Principle 2, Criterion 2.2.1: The CA maintains controls to provide reasonable assurance that EV SSL certificates issued meet the minimum requirements for Certificate Content and Profile, including additional technical requirements as specifically established in section 9 of the EV SSL Guidelines, including the following:</p> <ul style="list-style-type: none"> • Issuer Common Name Field • Issuer Domain Component Field • Issuer Organization Name Field • Issuer Country Name Field • Full legal organization name and if space is available the d/b/a name may also be disclosed • Subject Alternative Name Extension • Subject Common Name Field • Subject Business Category Field • Subject Jurisdiction of Incorporation or Registration Field • Subject Registration Number Field • Subject Physical Address of Place of Business Field • Subject Organization Identifier Field • Other Subject Attributes <p>Principle 2, Criterion 4.1: The CA</p>

		<p>maintains controls to provide reasonable assurance that the following information provided by the Applicant is verified directly by performing the steps established by the EV SSL Guidelines:</p> <p>For Private Organization Subjects:</p> <ul style="list-style-type: none"> • legal existence and identity • legal existence and identity – assumed name • organization name • registration number • registered agent • relationship to the parent, subsidiary, or affiliate (if applicable) <p>For Government Entities:</p> <ul style="list-style-type: none"> • legal existence • entity name • registration number <p>For Business Entities:</p> <ul style="list-style-type: none"> • legal existence • organization name • registration number • principal individual • relationship to the parent, subsidiary, or affiliate (if applicable) <p>For Non-Commercial Entities:</p> <ul style="list-style-type: none"> • International Organization Entities • legal entities • entity name • registration number
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Based on that assessment, in GlobalSign management's opinion, except for the matters described in the preceding table, in providing its EV SSL Certification Authority (CA) services at its locations as detailed in [Appendix C](#), throughout the period April 1, 2021 to March 31, 2022, 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 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 1.7.8.](#)



Additionally, GlobalSign has 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.

GlobalSign
Leuven, Belgium

Signed by: Arvid Vermote
Function: Chief Information Security Officer

June 29, 2022

Appendix A – Certification Practice Statements and Certificate Policies in Scope

Certification Practice Statement	Begin Effective Date	End Effective Date
Version 9.7	March 30, 2021	September 30, 2021
Version 9.8	September 30, 2021	November 30, 2021
Version 9.9	November 30, 2021	March 15, 2022
Version 9.10	March 15, 2022	

Certificate Policy	Begin Effective Date	End Effective Date
Version 6.7	March 30, 2021	September 30, 2021
Version 6.8	September 30, 2021	November 30, 2021
Version 6.9	November 30, 2021	March 15, 2022
Version 6.10	March 15, 2022	

Appendix B – In-Scope CAs

Root CA			
#	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,	26C6C5FD4928FD57A8A4C5724FDD279745869C60C338E262FFE901C31BD1DB2B	



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	O = GlobalSign nv-sa, C = BE		
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	

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DV TLS Issuing CA			
#	Subject	Fingerprint SHA-256	Additional information
17	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	EE793643199474ED60EFDC8CCDE4D37445921683593AA751BBF8EE491A391E97	
18	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	BFDF4CF3F143AD0DB912D8AB3A7C12F617B9EA60CE8B1F4E44F74270FB21B19B	
19	CN = GlobalSign Atlas R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	B65FE6A1BF2D52FF68B7D3E9D0F06B300A1C3F248309B70405CA7BDEC054BDDDD	
20	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	8C2410F76B149CA062B420AB611B6BF0A06E6E799A29587E4D4EC16D0537B7EA	
21	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	37D080A5E9A526663E56EE20DE4BD9F7952DACC341491439080167AD5DD18CAC	
22	CN = Valid Certificadora Digital SSL DV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	FCF26FBC1B2A25A76AB4EA92B2CBEF367E0131091C802DA49898F78AE54B30F8	
23	CN = Valid Certificadora Digital AlphaSSL CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	04DE47A9CDD3091CFC5EF6AAA3B7D4B53E13C4D4DC02364F6C0B408742EC3C76	
24	CN = Soluti CA - DV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	5C452334D9C9C9A2EA42CC77A7165E1795EE9D84EB70CB784B47EA9D92A582D9	
25	CN = GlobalSign Domain Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	09BC1B137C031239EF788673E94EB17F5F3ECAB07D3ADBFB485E75ABFAAF3B9A	
26	CN = GlobalSign GCC R3 DV TLS CA	762538439509C411C437D3C567563E1378671281FC4A1464ADD031870843676E	

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	2020, O = GlobalSign nv-sa, C = BE		
27	CN = AlphaSSL CA - SHA256 - G2, O = AlphaSSL	933E4A2D8DB1FF9FF0E508EA7F1637E074F660FE6F365A2233DFC2B52C889D98	
28	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	5A817EADA4AD78734EBB2CF674352D97F4352290C40EAF10E764B1EAC075B0E6	
29	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	669E7727A92BE72D9718E16922DC1BC1492B1AF33FA4793E68D8778F19A2EBE0	
30	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	6F335DD7CD4AAA1D9140F290E9E7B3498A7CC35A244AA300E146BA2D9D02B960	
31	CN = GlobalSign Atlas R3 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	59F5FF92B608A0119FF1DD7C603E0EB16F4FEAD9D4717AC3BC62D286AE399CDA	
32	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	72132ECF2F8C75B5F214C00ED14562E14912B7F2F4D2633180F3E4918980FEC4	Revoked on November 17, 2021

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OV TLS Issuing CA			
#	Subject	Fingerprint SHA-256	Additional information
33	CN = Trusted Root TLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	91F19CE503C9FE7FF9587D8EFBEF7315AAEE77DC2D14526126493B4AD6FE801F	
34	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	0B339212D7CFF17A2C59E35669B58E77350133750A78DA9404770EDD470DEF76	
35	CN = GlobalSign RSA OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	B676FFA3179E8812093A1B5EAFEE876AE7A6AAF231078DAD1BFB21CD2893764A	
36	CN = GlobalSign Organization Validated ECC CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	65EEC0CC6C970CC1CD73659115DC8D904E6F12E6DC8FD4DDA39D54CB30224780	
37	CN = GlobalSign ECC OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	87C71553445EB3C33C3E0710711B99E9C7773F04D91AC38A9F4C082EE24101EA	
38	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	74EF335E5E18788307FB9D89CB704BEC112ABD23487DBFF41C4DED5070F241D9	
39	CN = GlobalSign ECC384 SSL CA - G3, O = GlobalSign nv-sa, C = BE	DC6C44AC8A3CD5C3451273F4431526B2EF666062EE763258A928F60BD08E39FE	
40	CN = GlobalSign Organization Validated CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	1E1741A12EB8DA2BD76EA96C04F520359839710F620E80952F48DD0240A12CD8	
41	CN = GlobalSign Organization Validation CA - SHA256 - G3, O = GlobalSign nv-sa,	699D54B7482A5D329331EA0415CC2EDCD60FDA01D19E71D054196BCE0677735C	

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	C = BE		
42	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	1C9737E968AD9DFF8D8D7FCF996A144BB97851A19011A0190C943CAE8D43CFE0	
43	CN = GlobalSign Atlas ECCR5 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	2EB8A1317288F08233E6883CEBE67EA6A0989E22ACA42C58D59F5A834E02C513	
44	CN = GlobalSign Atlas R3 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	A6032CC352F1E2E3628E162A3047BC7D647E2D601A2C0F26CAAF9AAF7A54239C	

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EV TLS Issuing CA			
#	Subject	Fingerprint SHA-256	Additional information
45	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	5E2A73EE6069DE65322DCF0430176B385F5238C296EE4392E7ED7DB4BE908A40	
46	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	398DC562DC098CF75F3A151216E583380C279444B0D63E766D9FDF6F47D04C60	
47	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	256602DC8A8041B2EDC0CAE611A6A98D9B39AD4DE3E19F62DC0A0A1958B72271	
48	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	9C9D5E986B5BEA7A1EC8457EBCAA600D2435803B91FEC97C4E5043BE6742D4B1	
49	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	4CFA14BC7E8F48D4677B0604777AF76AB0C55B326F8B97BA95F6ACE115C05F16	
50	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	C9A74009DAE194A40BD122ABD015D44E93CB7879B0949054A31042EF4C99E5D6	
51	CN = GlobalSign Atlas R6 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	0ABB1CDE53CCAC170483DAFCD3CDB9F2622BA7E47D31EC0FD3DB271B4AAA5303	
52	CN = GlobalSign Atlas R46 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	385AA00A1848F807F665561E888B0D4F69614052D825F3C33970E00F4C3658DD	
53	CN = GlobalSign Atlas E46 EV TLS CA H2 2021, O = GlobalSign nv-sa,	44E683576E1C960D784D17BB2325C25CF1BE4E20470C31D9D73CACED496C95C9	

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	C = BE		
54	CN = CUISEC GCC R3 TLS EV CA 2021, O = 联通智慧安全科技有限公司, C = CN	9BFABD8D91284500B4D412C5725C87CB3A013F940FF1E62810E6929C69393ED9	
55	CN = VTB BANK GCC R6 EV CA 2021, O = VTB BANK (PJSC), C = RU	52C09A2CA179368703A1857004CD5A3C87D3BDAC3A558E143EF3508FBEEB1032	Revoked on April 06, 2022
56	CN = GlobalSign GCC E5 EV QWAC CA 2021, O = GlobalSign nv-sa, C = BE	0DD2C7E0AF8200F49F4192A89AE634D4CE41B80C63B0629CC68E538C316F020E	
57	CN = GlobalSign Extended Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	AED5DD9A5339685DFB029F6D89A14335A96512C3CACC52B2994AF8B6B37FA4D2	
58	CN = GlobalSign ECC EV SSL CA 2018, O = GlobalSign nv-sa, C = BE	8F19FFE02FC795ED70765D1436ADDF772FE0F0773DA436EDBDB42A2E30E2E828	
59	CN = Valid Certificadora Digital SSL EV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	8AEFEBD88BE87A30B19C60C5BD0FB5E9FBCD15D5582D5FC9A7499578D68DCEC0	
60	CN = Soluti CA - EV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	11FBA4A7EE579C70E1D57F9F9B6A8C209E1219C4F1D3846F83FFCE74E9E5E2CE	
61	CN = GlobalSign ECC384 EV SSL CA - G3, O = GlobalSign nv-sa, C = BE	15549187490314F5177641F0BEB32634AA1230EB2CF2C28AD9C73914FB18ABA0	
62	CN = GlobalSign Atlas R6 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	BCE7091355D2417A37F8CFE2AC8F17C2748888BA0EEA90000FC980ECFC2D041F	
63	CN = GlobalSign Atlas E46 EV TLS CA 2020,	364DF25CC88F6FB0202C02CD9B8EA02DFE8AC02341EFF5A9DFFC5BE159ED5991	

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	O = GlobalSign nv-sa, C = BE		
64	CN = GlobalSign Atlas R46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	E1E15D289697AF3285BF34112A3E60BC11C0C8122DD2B9B3420AB2E5E57883CA	
65	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q1, O = GlobalSign nv-sa, C = BE	F2BC379B1EF45624D8F822B6E359502D470F384E53C082F7AE21869C13A5D345	
66	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q2, O = GlobalSign nv-sa, C = BE	250AFA50B60D30D1217D00E7DD8CCE6B51F5C0B6A6369324842C37DEB44F9715	
67	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q3, O = GlobalSign nv-sa, C = BE	9D51DC2750A13BD627D99FDCC720D1904FE81059110BB9DE11B039A4B2ECA531	
68	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q4, O = GlobalSign nv-sa, C = BE	451FA3A18064B4DD03ADFE8B8BBF16258CB98A1A6FEE5D6B0A37C98A0B5E6DAE	
69	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q1, O = GlobalSign nv-sa, C = BE	4D81D18D57CDA96440CBFD0FA05CC387B7C69DE3A9E68B4036E1168EE2B7BD21	
70	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q2, O = GlobalSign nv-sa, C = BE	ED2B6C6F6C669EEC6C158B0FD61E4454185C42842523866F3B3EE9B1F0F62882	
71	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q3, O = GlobalSign nv-sa, C = BE	0DA5820FD4FCF9B9F94C140DB0F06D670D86FCB1BDD9597BCA8731532F353C	
72	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q4, O = GlobalSign nv-sa, C = BE	4EF99E6A8B14F69938715371B1D853472534CBF595A743CE993E7B386F99B895	

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73	CN = GlobalSign GCC R3 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	D4A5941C7141ED1949A0C6CE9DD45A0AB94DC337902EB0A1209852738EEBE854	
74	CN = GlobalSign GCC E46 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	AA76C50166CD1B865B78D795C2C87A48D4A6229E65F8B38DBD005154EB2ED2DC	Revoked on November 17, 2021
75	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q4, O = GlobalSign nv-sa, C = BE	B51D85A08FACB06F97FDF58563749003033EE77DD583986204499197CA8E7077	
76	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q3, O = GlobalSign nv-sa, C = BE	29C840D062AC862DB4D20928D2AEFD83B35A46BD4533995FF2EFD3E3EE8CFFD9	
77	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q2, O = GlobalSign nv-sa, C = BE	A40C91E466D62CDB32B7139E8748F0EB5A817F6BB8A9F999A7A9BF4306D6D5D5	
78	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q1, O = GlobalSign nv-sa, C = BE	A7DCFD3D09377C39BA3A7F630E052EC593E9726D1DA57229E599D15AD6DCCA7B	
79	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q4, O = GlobalSign nv-sa, C = BE	2DA52277662DC1C779E2439FAF58F85F87DBA73E0F16F1B0EB310A4919CFC3BA	
80	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q3, O = GlobalSign nv-sa, C = BE	430B172A6F7146B16A75BCC5BFA1D60C61DEEAA2ABAC61B4394E4A6B291C48CC	
81	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q2, O = GlobalSign nv-sa, C = BE	F4C5F3956379493830DE7456E0A55D6FBC1B8EA08B756488FF005B6C394A69C7	
82	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q1,	F9120A71D50697B9992A7357A0A9A0DDC4BFC3598FCB4F01642964824D3CF276	

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	O = GlobalSign nv-sa, C = BE		
83	CN = GlobalSign GCC E5 UK EV QWAC CA 2021, O = GMO GlobalSign Ltd, C = GB	0966A88729C938F9DCD65BB3C63B608618EAE5183ED1FED752B323089687A20E	
84	CN = GlobalSign GCC R3 UK EV QWAC CA 2020, O = GMO GlobalSign Ltd, C = GB	A33017D9DF494C09D58709107403AEE461B9461E81BA395C28C36693C27D1986	
85	CN = GlobalSign GCC E46 UK EV QWAC CA 2020, O = GMO GlobalSign Ltd, C = GB	8814C0688344DE0F21AD1BD076E9F3248AF430E4FE760952E3A150DFAEDCE016	Revoked on November 17, 2021

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Other CA			
#	Subject	Fingerprint SHA-256	Additional information
86	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	1DF6054D6641404633641BB5FA3742FDA7D075E2514840AB61E00CCBBB7D341D	Cross Sign CA
87	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	45CB1D874CB03BD5C5B6E079C8FC29E51521EE5628486301964A41F94BA59F88	Cross Sign CA
88	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	3F319B2AFED4A0F75127BE59925550D0428E68763A09E273EB6A9FF8D18DBB5B	Cross Sign CA
89	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A63C1398B5F8DD2D432FBE4C2C19142BEA6D5D0221FAE794718AE7597ACCA96D	Cross Sign CA
90	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	0F1554C2FD591B0256A608E1C136A837E7A6E041561EE08A911B2AFDCD3C6C1B	Cross Sign CA
91	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	DDA8DA736187D76F4F0ED5A5F667B54D99A98AE06091D0E3A01714E9221695AD	Cross Sign CA
92	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A5E33C28E3013A71F5F760AE3B16595090043D2EC5209EC52903C4FBAD258DAD	Cross Sign CA
93	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	F349954E8FB6D44011BCB789D97D9A2CB2032BD5F0B598D1FB8A099F5848D523	Cross Sign CA
94	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	C84E1378B974A991ACDCDD733421E3061E6FA21A0491C8902BAFDE3855E0063E	Cross Sign CA
95	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	33EF151EFB08D1C44FB85CC3F23EC6873014E9F881691BD4938B7F251580B694	Cross Sign CA
96	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	445EEC78BC61215044A0379656AA2D5DB5E42F76CB70B8D14C2077AA943D4EBB	Cross Sign CA
97	CN = GlobalSign, O = GlobalSign,	C94FEDDA4E8608908580BC7F87B434E03BB262E42F64C63820A8F50FB17C1CEC	Cross Sign CA

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	OU = GlobalSign Root CA - R3		
98	CN = GlobalSign Root CA, OU = Root CA, O = GlobalSign nv-sa, C = BE	6ADD368DA35458A09EDF880D0570E863ADC8507D49406B4D97E44E53BC9308C9	Cross Sign CA
99	CN = GlobalSign CA for AATL - SHA256 - G2, O = GlobalSign nv-sa, C = BE	AA89C466E9D06882C0DAAF72BE0F0FBCFE7C1EF2AAAD190640C4AD44F5517F34	
100	CN = GlobalSign CA for AATL - SHA384 - G4, O = GlobalSign nv-sa, C = BE	AC0AB963BB5F3DA05FBC8687F98C2B6EA0BB499E6118C1A9136B1BC7C3C71A6B	

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Timestamp CA			
#	Subject	Fingerprint SHA-256	Additional information
101	CN = GlobalSign Partners Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	2A015531A5F3A4CE589BD853C71DD069587322F574D85C9C9B9F9DF8F86C075E	
102	CN = GlobalSign TSA CA for AATL, O = GlobalSign nv-sa, C = BE	4D8EB49380EC72AC9FDF21FE1C6DB2E9490C76BEADD1F7B528C3CCD272C8FE28	
103	CN = GlobalSign Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	F642418E4D0C63DEC785C960EFA68BA745F38851744EF81F225CB89305314D50	
104	CN = GlobalSign Partners TSA CA for AATL, O = GlobalSign nv-sa, C = BE	7E8F914119BB1090D6204908E5AE1F40BE24C1491CD7D5CFB6A93618CBC00FD9	
105	CN = GlobalSign Timestamping CA - G2, O = GlobalSign nv-sa, C = BE	C977923C771E1A66C925A2B6F501732E678DC9887AFE6BFAAC039D1D9A71F0EC	
106	CN = GlobalSign Timestamping CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	9BF9496777D14425ED0086C1BB2C0707B62A61C194C5162E4F07637AFF166B76	
107	CN = GlobalSign Timestamping CA, O = GlobalSign, OU = Timestamping CA	D0CAE6947BC77F0B495CA808D6CDE685FCD20225E1E530B635B113ED40728EF3	
108	CN = GlobalSign Timestamping CA - R3, O = GlobalSign, OU = Timestamping CA	61C1067083AE044EF1D649CE590BBF09D9D739E025DA8D195F71CFAAD6EBAE69	

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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
SG-03	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



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Appendix D – Publicly disclosed incidents

Bugzilla ID	Disclosure	Publicly Disclosed Link
1649937	GlobalSign: Incorrect OCSP Delegated Responder Certificate	Bugzilla Ticket Link
1651447	GlobalSign: Failure to revoke noncompliant ICA within 7 days	Bugzilla Ticket Link
1690807	RSA-1024 leaf certificate issued after 2013-12-31	Bugzilla Ticket Link
1707073	GlobalSign: Invalid countryName	Bugzilla Ticket Link
1708834	GlobalSign: Invalid stateOrProvinceName and locality pair	Bugzilla Ticket Link
1714968	GlobalSign: Incorrect RegNumber-Org Type combination	Bugzilla Ticket Link
1744518	GlobalSign: EV certificates with serialNumber Government Entity and businessCategory Private Organization	Bugzilla Ticket Link
1759854	GlobalSign: Certificate issued to FQDN with malformed CAA	Bugzilla Ticket Link
1760311	GlobalSign: OCSP responder certificates with more than 64 characters in CN	Bugzilla Ticket Link