

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

and, for its CAs in scope for Network Security Requirements as enumerated in [Appendix B](#):

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

in accordance with the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security, Version 2.6](#).

### Certification authority's responsibilities

GlobalSign's management is responsible for its assertion, including the fairness of its presentation, and the provision of its described services in accordance with the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security, Version 2.6](#).

## **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 SSL certificate lifecycle management business practices, including its relevant controls over the issuance, renewal, and revocation of SSL certificates, and obtaining an understanding of GlobalSign's network and certificate system security to meet the requirements set forth by the CA/Browser Forum;
2. Selectively testing transactions executed in accordance with disclosed SSL certificate lifecycle management practices
3. Testing and evaluating the operating effectiveness of the controls; and
4. Performing such other procedures as we considered necessary in the circumstances.

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

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

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	<p>We noted that GlobalSign has issued multiple certificates for which the subject information was not in accordance with the SSL Baseline Requirements i.e., 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 SSL Baseline Requirements.</p> <p>This caused WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.6, Principle 2, Criteria 2.15 and 4.2 to not be met.</p>	<p>Principle 2, Criterion 2.15: The CA maintains controls to provide reasonable assurance that Subject information of Certificates conforms to the Baseline Requirements, including: (...)  <ul style="list-style-type: none"> <li>▸ subject:localityName</li> <li>▸ subject:stateOrProvinceName</li> <li>▸ subject:postalCode</li> <li>▸ subject:countryName</li> </ul>           (...)</p> <p>Principle 2, Criterion 4.2: 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 SSL Baseline Requirements:  <ul style="list-style-type: none"> <li>▸ Identity (SSL Baseline Requirements Section 3.2.2.1)</li> <li>▸ DBA/Trade name (SSL Baseline Requirements Section 3.2.2.2)</li> <li>▸ Authenticity of Certificate Request (SSL Baseline Requirements Section 3.2.5)</li> <li>▸ Verification of Individual Applicant (SSL Baseline Requirements Section 3.2.3)</li> <li>▸ Verification of Country (SSL Baseline Requirements Section 3.2.2.3)</li> </ul> </p>

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

in accordance with the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security, Version 2.6](#).

This report does not include any representation as to the quality of GlobalSign's services beyond those covered by the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security, Version 2.6](#), 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

<b>Certification Practice Statement</b>	<b>Begin Effective Date</b>	<b>End Effective Date</b>
<a href="#">Version 9.7</a>	March 30, 2021	September 30, 2021
<a href="#">Version 9.8</a>	September 30, 2021	November 30, 2021
<a href="#">Version 9.9</a>	November 30, 2021	March 15, 2022
<a href="#">Version 9.10</a>	March 15, 2022	

<b>Certificate Policy</b>	<b>Begin Effective Date</b>	<b>End Effective Date</b>
<a href="#">Version 6.7</a>	March 30, 2021	September 30, 2021
<a href="#">Version 6.8</a>	September 30, 2021	November 30, 2021
<a href="#">Version 6.9</a>	November 30, 2021	March 15, 2022
<a href="#">Version 6.10</a>	March 15, 2022	

Appendix B - In-Scope CAs

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

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	2CABEAFE37D06CA22ABA7391C0033D25982952C453647349763A3AB5AD6CCF6 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,	7B9D553E1C92CB6E8803E137F4F287D4363757F5D44B37D52F9FCA22FB97DF86	



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	O = GlobalSign nv-sa, C = BE		
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	38BE6C7EEB4547D82B9287F243AF32A9DEEB5DC5C9A87A0056F938D91B456A5 A	
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	2BCBBFD66282C680491C8CD7735FDBBAB7A8079B127BEC60C535976834399AF 7	
14	CN = GlobalSign Client Authentication Root R45, O = GlobalSign nv-sa, C = BE	165C7E810BD37C1D57CE9849ACCD500E5CB01EEA37DC550DB07E598AAD2474A 8	
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	4774674B94B78F5CCBEF89FDDEBDABBD894A71B55576B8CC5E6876BA3EAB453 8	

DV TLS Issuing CA			
#	Subject	Fingerprint SHA-256	Additional information
17	CN = GlobalSign Atlas R3 AlphaSSL CA 2022 Q2,	45F1854530EC037AAACB4B2DE9B4D0FDBFC61888ABD4EE0414183D99E60437A C	



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	O = Globalsign nv-sa, C = BE		
18	CN = GlobalSign Atlas ECCR5 DV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	15B63CDD772A8D42DC5E48174C1F7E3D40FC82C478DF3A6443C7BD92FBC6D5D E	
19	CN = GlobalSign Atlas R3 DV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	735CC386EC1A82E657A5B451C94959611D3C7D0CBB1FD9D9EDB42C7192F8463 A	
20	CN = GlobalSign Atlas ECCR5 DV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	7B063A9CD48767C475AA6BCED4667CDC56068F8B7B895125BC4EB24682EEB60 6	
21	CN = GlobalSign Atlas R3 DV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	2DFE47E144ABB39F9FE451CECD352D9A9BD28982351E8B6524FEB101DBAB1FEC	
22	CN = GlobalSign Atlas R3 AlphaSSL CA 2022 Q1, O = Globalsign nv-sa, C = BE	A04FA69E84CCD44F5E526B558631E346B21417D4D1B606A08CADE3928DBF115 8	
23	CN = GlobalSign Atlas R3 DV ACME CA 2022 Q1, O = GlobalSign nv-sa, C = BE	92651CD48A0288AA3075354DDC15DC24D0AF8EE67015B68A145970A093475E1 9	
24	CN = Alibaba Cloud GCC R3 DV TLS CA 2021, O = Alibaba Cloud Computing Co., Ltd., C = CN	8F3E5D6858B927D284FDB85A1B15875CD78E63B820C20DDC539CCD84B0C1A6A A	
25	CN = Alibaba Cloud GCC R3 AlphaSSL CA 2021, O = Alibaba Cloud Computing Co., Ltd., C = CN	7AEDE5374ECA9FF34C5727C10DB982222D753157797449B88364F70EEFA0C24C	
26	CN = GlobalSign Atlas ECCR5 DV TLS CA 2022 Q1,	727A9069A3C60D213584E616D5BF55DFD19C71A3976645EA6A73B18F83760D2 4	





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	O = GlobalSign nv-sa, C = BE		
27	CN = GlobalSign Atlas R3 DV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	D9E4A803FB498EEE9379FCF90AC3067AE65D098CC77890C37E575E249CD7D7C9	
28	CN = GlobalSign Atlas ECCR5 DV ACME CA 2022 Q1, O = GlobalSign nv-sa, C = BE	A262F7D653E6C745EEABEBF6672A756B501A82F06708F2B5E77916217037BBCA	
29	CN = TK Elevator Atlas R6 DV CA 2021, O = TK Elevator GmbH, C = DE	988D6B2D87BAF43821C4D304BE2B0E8F325DC17B7A220E934F5C5B7BADFF8E1C	
30	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	EE793643199474ED60EFDC8CCDE4D37445921683593AA751BBF8EE491A391E97	
31	CN = GlobalSign Atlas R3 DV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	1DD095449FFB3CFF14B2224D596B83FD42F2B47683553C797D11150C918691BD	
32	CN = GlobalSign Atlas R3 DV ACME CA H2 2021, O = GlobalSign nv-sa, C = BE	B254F3CDEAF1D29AB53CB439E80FB996F1E90A283E9B5085B8749D18E4F5987B	
33	CN = GlobalSign Atlas R3 AlphaSSL CA H2 2021, O = Globalsign nv-sa, C = BE	11B6DB5B68DCDF34479AE7E7B7BBAA7165905577AD83D474F2BB9717CE244CE A	
34	CN = GlobalSign Atlas ECCR5 DV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	6916DA916EE1B1E98CB31EE94730EECD7F2C077965BDB8D4E16A3B81C58A29B6	
35	CN = GlobalSign Atlas ECCR5 DV ACME CA H2 2021, O = GlobalSign nv-sa, C = BE	61B30CEAEA0C8C6397C3599829809CB73CA8F817BB9CDF000D7453E44243802 8	



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36	CN = CUISEC GCC R3 TLS DV CA 2021, O = 联通智慧安全科技有限公司, C = CN	692FE1B8BA2699531DE4CD2F52AE38FA119AB01F4B31AB78FE6DB3FDF03A7031	
37	CN = VTB BANK GCC R6 DV CA 2021, O = VTB BANK (PJSC), C = RU	95BA96F72CB314ECD05CE0FD75D886381A368C8F5869F04BDD3024893F4E393B	Revoked on April 06, 2022
38	CN = GlobalSign Atlas R3 AlphaSSL CA H1 2021, O = Globalsign nv-sa, C = BE	1ABC5AD5BC3911A5B4A91E42BBA3212E2AA3DC80147EFE1D49572E4BE0532633	
39	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	BFDF4CF3F143AD0DB912D8AB3A7C12F617B9EA60CE8B1F4E44F74270FB21B19B	
40	CN = GlobalSign Atlas R3 DV ACME CA H1 2021, O = GlobalSign nv-sa, C = BE	70F5C63C4F112837AB99870B0ECB5D722EEA0B0D0DDB9320B98B99B9BD137866	
41	CN = GlobalSign Atlas ECCR5 DV ACME CA H1 2021, O = GlobalSign nv-sa, C = BE	E7757BB0C4942ADC108D092A17B812B1043E06A094DD5E214920325556FC6924	
42	CN = GlobalSign Atlas R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	B65FE6A1BF2D52FF68B7D3E9D0F06B300A1C3F248309B70405CA7BDEC054BDDD	
43	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	8C2410F76B149CA062B420AB611B6BF0A06E6E799A29587E4D4EC16D0537B7EA	
44	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	37D080A5E9A526663E56EE20DE4BD9F7952DACC341491439080167AD5DD18CAC	
45	CN = Valid Certificadora Digital SSL DV CA 2018,	FCF26FBC1B2A25A76AB4EA92B2CBEF367E0131091C802DA49898F78AE54B30F8	



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	O = VALID CERTIFICADORA DIGITAL, C = BR		
46	CN = Valid Certificadora Digital AlphaSSL CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	04DE47A9CDD3091CFC5EF6AAA3B7D4B53E13C4D4DC02364F6C0B408742EC3C7 6	
47	CN = Soluti CA - DV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	5C452334D9C9C9A2EA42CC77A7165E1795EE9D84EB70CB784B47EA9D92A582D 9	
48	CN = GlobalSign Domain Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	09BC1B137C031239EF788673E94EB17F5F3ECAB07D3ADBFB485E75ABFAAF3B9A	
49	CN = GlobalSign GCC R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	762538439509C411C437D3C567563E1378671281FC4A1464ADD031870843676 E	
50	CN = AlphaSSL CA - SHA256 - G2, O = AlphaSSL	933E4A2D8DB1FF9FF0E508EA7F1637E074F660FE6F365A2233DFC2B52C889D98	
51	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	5A817EADA4AD78734EBB2CF674352D97F4352290C40EAF10E764B1EAC075B0E 6	
52	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	669E7727A92BE72D9718E16922DC1BC1492B1AF33FA4793E68D8778F19A2EBE0	
53	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	6F335DD7CD4AAA1D9140F290E9E7B3498A7CC35A244AA300E146BA2D9D02B96 0	
54	CN = GlobalSign Atlas R3 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	59F5FF92B608A0119FF1DD7C603E0EB16F4FEAD9D4717AC3BC62D286AE399CDA	



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55	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	72132ECF2F8C75B5F214C00ED14562E14912B7F2F4D2633180F3E4918980FEC4	Revoked on November 17, 2021
56	CN = Alibaba Cloud GCC R3 DV TLS CA 2021, O = Aliyun Computing Co., Ltd., C = CN	0FBBBC699B65EA9B676F1042BE3F093224CB1F769F142579B8CA023AEDD6E706	Revoked on November 17, 2021

OV TLS Issuing CA			
#	Subject	Fingerprint SHA-256	Additional information
57	CN = Trusted Root TLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	91F19CE503C9FE7FF9587D8EFBEF7315AAEE77DC2D14526126493B4AD6FE801F	
58	CN = GlobalSign Atlas ECCR5 OV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	A816AFF7746EA0F0A0A064C0432F9D2B7D0CE79EC2D1E9940F4A186A25182284	
59	CN = GlobalSign Atlas R3 OV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	AFDB3C396D85D19FBE58206DF0659EAE614C4AB18F5CCF20B783AAF0BBE96A03	
60	CN = GlobalSign Atlas ECCR5 OV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	CB2C685CB214DCD2F2CDA6E2C155AAF21A7E134BC0BCE808B1130C459125B0A4	
61	CN = GlobalSign Atlas R3 OV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	D50B20ADFF959BFBE83B6FD1FAB36FDE7941B960CFC6839AAC63B9FFDB46413	
62	CN = GlobalSign Atlas ECCR5 OV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	F9D3214AD6F5D6D2B3C8161F96028B76812B058614A66786B92C8FEBDAC020EE	



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63	CN = GlobalSign Atlas R3 OV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	536A35A3FA630379CF3B4D4B4E1395AF9CFED2243138E634E4369A31E2872843	
64	CN = GlobalSign Atlas ECCR5 OV ACME CA 2022 Q1, O = GlobalSign nv-sa, C = BE	218C470B78B02D39B84FC6892F5A1FE9C99D6B9A6B8B7471E039EDCFCA91004C	
65	CN = GlobalSign Atlas R3 OV ACME CA 2022 Q1, O = GlobalSign nv-sa, C = BE	EA532E6D78FF00FD4F56447F7E0A47D239D945424B77CF0D15A795CB4EE602BD	
66	CN = GlobalSign Atlas R3 OV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	4E1A564C71A04288970E53C037D1CFC25C1F9BEFC5276CF3BD501EE262F04202	
67	CN = GlobalSign Atlas ECCR5 OV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	90AF1B61A082662A639CAA68C6A3FB41EBBA3760C351A4A1E89FB6DACAD486F C	
68	CN = Alibaba Cloud GCC R3 TLS OV CA 2021, O = Alibaba Cloud Computing Co., Ltd., C = CN	31A096A1CB918876EE57C85B2349FC9CC2C2CB4FCF9BDD37787CE9DA57AF4790	
69	CN = CUISEC GCC R3 TLS OV CA 2021, O = 联通智慧安全科技有限公司, C = CN	C7F145D474F5DC20B27A64E1696179522469078B333FE8FF887B97CE7805E362	
70	CN = VTB BANK GCC R6 OV CA 2021, O = VTB BANK (PJSC), C = RU	312AB012744F859EEF8AE0FA25D0259E89DAAF51B94FAC67DFC61060F0DB2207	Revoked on April 06, 2022
71	CN = ATT Atlas R3 OV TLS CA 2020, O = ATT Services Inc, C = US	DC2728331312E75C4D7B442F3BDDA790CB77A9D6AC854D5BCE18AC43CA59909 A	
72	CN = CrowdStrike GCC R3 TLS OV CA 2020,	78CB512DE48CEDCD7134DF57C973C1E1A07692B8F542A44ACEBB8BB776D55D5 9	



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	O = CrowdStrike Inc., C = US		
73	CN = DPDHL Global TLS CA - I5, O = Deutsche Post AG, C = DE	32A4E554E363116FE48E22F01DAC1736752A71C720F99F462D565022D3BAD07D	
74	CN = RNP ICPEdu OV SSL CA 2019, O = Rede Nacional de Ensino e Pesquisa - RNP, C = BR	88FC18BD071BE1FBC53FFBC801F03F5B2C4DA87BBA0C098E2B4808F19EAB05FE	
75	CN = SHECA OV Secure Server CA, O = Shanghai Electronic Certificate Authority Center Co., Ltd., C = CN	AD7B58C3C5D9586BE5B62799C2792C4111C9852A96F7B0607221265713957E1 C	
76	CN = Valid Certificadora Digital SSL OV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	6B4F9DE13678846730D50E914A08E7BE9B742CA3A0A7D5393367830B93A6F55 3	
77	CN = Soluti CA - OV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	AB74B1411AD23E2227FB88A2A9304A1A45A5C4840B3635F1036A46E8374279A C	
78	CN = Prodrive Technologies B.V. OV SSL Issuing CA, O = Prodrive Technologies B.V., C = NL	580BB3AB127F5E13E940AE7365E3C69A62AD204D7FDFA451592FE7C47DC02A9 5	
79	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	E0C2EBD1F6BAD4FEAAE31A3107E69ABEE902DB38B9DFBE33F0570BDA3494C20 A	
80	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	4B7334E1D8999822BAFA8FF6888125389B18A4E5AB26FFA624C7F68FDC81FOCB	
81	CN = GlobalSign ECC CloudSSL CA - SHA384 - G3, O = GlobalSign nv-sa, C = BE	B0CD6AE7B9E20EC5F830FEE01F666D5D90E6E229D06BC46A30ACCEDFEC889648	



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82	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	0B339212D7CFF17A2C59E35669B58E77350133750A78DA9404770EDD470DEF76	
83	CN = GlobalSign RSA OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	B676FFA3179E8812093A1B5EAFEE876AE7A6AAF231078DAD1BFB21CD2893764 A	
84	CN = GlobalSign Organization Validated ECC CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	65EEC0CC6C970CC1CD73659115DC8D904E6F12E6DC8FD4DDA39D54CB3022478 0	
85	CN = GlobalSign ECC OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	87C71553445EB3C33C3E0710711B99E9C7773F04D91AC38A9F4C082EE24101EA	
86	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	74EF335E5E18788307FB9D89CB704BEC112ABD23487DBFF41C4DED5070F241D9	
87	CN = GlobalSign ECC384 SSL CA - G3, O = GlobalSign nv-sa, C = BE	DC6C44AC8A3CD5C3451273F4431526B2EF666062EE763258A928F60BD08E39FE	
88	CN = GlobalSign Organization Validated CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	1E1741A12EB8DA2BD76EA96C04F520359839710F620E80952F48DD0240A12CD 8	
89	CN = GlobalSign Organization Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	699D54B7482A5D329331EA0415CC2EDCD60FDA01D19E71D054196BCE0677735 C	
90	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	1C9737E968AD9DFF8D8D7FCF996A144BB97851A19011A0190C943CAE8D43CFE 0	
91	CN = GlobalSign Atlas ECCR5 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	2EB8A1317288F08233E6883CEBE67EA6A0989E22ACA42C58D59F5A834E02C513	



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92	CN = GlobalSign Atlas R3 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	A6032CC352F1E2E3628E162A3047BC7D647E2D601A2C0F26CAAF9AAF7A54239C	
93	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	E155EBF96334E79AE2E287D55CFC9185DE24935A653F13C5BA05AFF818771BC6	
94	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	C2E4236DB1B757B51B77921388EFA823E6A600FD4BDA30B63AB77886F25618B7	
95	CN = Beame.io CA 1, O = Beame.io Ltd, C = IL	0D36F6A2299E9E268F94ADB49E57E6717D713C3F47B889C40DCDC8CFE940CB80	

EV TLS Issuing CA			
#	Subject	Fingerprint SHA-256	Additional information
96	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	5E2A73EE6069DE65322DCF0430176B385F5238C296EE4392E7ED7DB4BE908A40	
97	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	398DC562DC098CF75F3A151216E583380C279444B0D63E766D9FDF6F47D04C60	
98	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	256602DC8A8041B2EDC0CAE611A6A98D9B39AD4DE3E19F62DC0A0A1958B72271	
99	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	9C9D5E986B5BEA7A1EC8457EBCAA600D2435803B91FEC97C4E5043BE6742D4B1	





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100	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	4CFA14BC7E8F48D4677B0604777AF76AB0C55B326F8B97BA95F6ACE115C05F16	
101	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	C9A74009DAE194A40BD122ABD015D44E93CB7879B0949054A31042EF4C99E5D6	
102	CN = GlobalSign Atlas R6 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	0ABB1CDE53CCAC170483DAFCD3CDB9F2622BA7E47D31EC0FD3DB271B4AAA5303	
103	CN = GlobalSign Atlas R46 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	385AA00A1848F807F665561E888B0D4F69614052D825F3C33970E00F4C3658DD	
104	CN = GlobalSign Atlas E46 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	44E683576E1C960D784D17BB2325C25CF1BE4E20470C31D9D73CACED496C95C9	
105	CN = CUISEC GCC R3 TLS EV CA 2021, O = 联通智慧安全科技有限公司, C = CN	9BFABD8D91284500B4D412C5725C87CB3A013F940FF1E62810E6929C69393ED9	
106	CN = VTB BANK GCC R6 EV CA 2021, O = VTB BANK (PJSC), C = RU	52C09A2CA179368703A1857004CD5A3C87D3BDAC3A558E143EF3508FBEEB1032	Revoked on April 06, 2022
107	CN = GlobalSign GCC E5 EV QWAC CA 2021, O = GlobalSign nv-sa, C = BE	0DD2C7E0AF8200F49F4192A89AE634D4CE41B80C63B0629CC68E538C316F020E	
108	CN = GlobalSign Extended Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	AED5DD9A5339685DFB029F6D89A14335A96512C3CACC52B2994AF8B6B37FA4D2	



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109	CN = GlobalSign ECC EV SSL CA 2018, O = GlobalSign nv-sa, C = BE	8F19FFE02FC795ED70765D1436ADDF772FE0F0773DA436EDBDB42A2E30E2E828	
110	CN = Valid Certificadora Digital SSL EV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	8AEFEBD88BE87A30B19C60C5BD0FB5E9FBCD15D5582D5FC9A7499578D68DCEC 0	
111	CN = Soluti CA - EV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	11FBA4A7EE579C70E1D57F9F9B6A8C209E1219C4F1D3846F83FFCE74E9E5E2CE	
112	CN = GlobalSign ECC384 EV SSL CA - G3, O = GlobalSign nv-sa, C = BE	15549187490314F5177641F0BEB32634AA1230EB2CF2C28AD9C73914FB18ABA0	
113	CN = GlobalSign Atlas R6 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	BCE7091355D2417A37F8CFE2AC8F17C2748888BA0EEA90000FC980ECFC2D041F	
114	CN = GlobalSign Atlas E46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	364DF25CC88F6FB0202C02CD9B8EA02DFE8AC02341EFF5A9DFFC5BE159ED5991	
115	CN = GlobalSign Atlas R46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	E1E15D289697AF3285BF34112A3E60BC11C0C8122DD2B9B3420AB2E5E57883C A	
116	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q1, O = GlobalSign nv-sa, C = BE	F2BC379B1EF45624D8F822B6E359502D470F384E53C082F7AE21869C13A5D345	
117	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q2, O = GlobalSign nv-sa, C = BE	250AFA50B60D30D1217D00E7DD8CCE6B51F5C0B6A6369324842C37DEB44F971 5	
118	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q3,	9D51DC2750A13BD627D99FDCC720D1904FE81059110BB9DE11B039A4B2ECA53 1	



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	O = GlobalSign nv-sa, C = BE		
119	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q4, O = GlobalSign nv-sa, C = BE	451FA3A18064B4DD03ADFE8B8BBF16258CB98A1A6FEE5D6B0A37C98A0B5E6DAE	
120	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q1, O = GlobalSign nv-sa, C = BE	4D81D18D57CDA96440CBFD0FA05CC387B7C69DE3A9E68B4036E1168EE2B7BD21	
121	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q2, O = GlobalSign nv-sa, C = BE	ED2B6C6F6C669EEC6C158B0FD61E4454185C42842523866F3B3EE9B1F0F62882	
122	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q3, O = GlobalSign nv-sa, C = BE	0DA5820FDFE4FCF9B9F94C140DB0F06D670D86FCB1BDD9597BCA8731532F353C	
123	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q4, O = GlobalSign nv-sa, C = BE	4EF99E6A8B14F69938715371B1D853472534CBF595A743CE993E7B386F99B895	
124	CN = GlobalSign GCC R3 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	D4A5941C7141ED1949A0C6CE9DD45A0AB94DC337902EB0A1209852738EEBE854	
125	CN = GlobalSign GCC E46 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	AA76C50166CD1B865B78D795C2C87A48D4A6229E65F8B38DBD005154EB2ED2DC	Revoked on November 17, 2021
126	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q4, O = GlobalSign nv-sa, C = BE	B51D85A08FACB06F97FDF58563749003033EE77DD583986204499197CA8E7077	
127	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q3,	29C840D062AC862DB4D20928D2AEFD83B35A46BD4533995FF2EFD3E3EE8CFFD9	



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	O = GlobalSign nv-sa, C = BE		
128	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q2, O = GlobalSign nv-sa, C = BE	A40C91E466D62CDB32B7139E8748F0EB5A817F6BB8A9F999A7A9BF4306D6D5D 5	
129	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q1, O = GlobalSign nv-sa, C = BE	A7DCFD3D09377C39BA3A7F630E052EC593E9726D1DA57229E599D15AD6DCCA7 B	
130	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q4, O = GlobalSign nv-sa, C = BE	2DA52277662DC1C779E2439FAF58F85F87DBA73E0F16F1B0EB310A4919CFC3BA	
131	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q3, O = GlobalSign nv-sa, C = BE	430B172A6F7146B16A75BCC5BFA1D60C61DEEAA2ABAC61B4394E4A6B291C48C C	
132	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q2, O = GlobalSign nv-sa, C = BE	F4C5F3956379493830DE7456E0A55D6FBC1B8EA08B756488FF005B6C394A69C7	
133	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q1, O = GlobalSign nv-sa, C = BE	F9120A71D50697B9992A7357A0A9A0DDC4BFC3598FCB4F01642964824D3CF27 6	
134	CN = GlobalSign GCC E5 UK EV QWAC CA 2021, O = GMO GlobalSign Ltd, C = GB	0966A88729C938F9DCD65BB3C63B608618EAE5183ED1FED752B323089687A20 E	
135	CN = GlobalSign GCC R3 UK EV QWAC CA 2020, O = GMO GlobalSign Ltd, C = GB	A33017D9DF494C09D58709107403AEE461B9461E81BA395C28C36693C27D198 6	
136	CN = GlobalSign GCC E46 UK EV QWAC CA 2020,	8814C0688344DE0F21AD1BD076E9F3248AF430E4FE760952E3A150DFAEDCE016	Revoked on November 17, 2021



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	O = GMO GlobalSign Ltd, C = GB		
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Other CA			
#	Subject	Fingerprint SHA-256	Additional information
137	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	1DF6054D6641404633641BB5FA3742FDA7D075E2514840AB61E00CCBBB7D341 D	Cross Sign CA
138	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	45CB1D874CB03BD5C5B6E079C8FC29E51521EE5628486301964A41F94BA59F88	Cross Sign CA
139	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	3F319B2AFED4A0F75127BE59925550D0428E68763A09E273EB6A9FF8D18DBB5B	Cross Sign CA
140	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A63C1398B5F8DD2D432FBE4C2C19142BEA6D5D0221FAE794718AE7597ACCA96 D	Cross Sign CA
141	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	0F1554C2FD591B0256A608E1C136A837E7A6E041561EE08A911B2AFDCD3C6C1 B	Cross Sign CA
142	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	DDA8DA736187D76F4FOED5A5F667B54D99A98AE06091D0E3A01714E9221695A D	Cross Sign CA
143	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A5E33C28E3013A71F5F760AE3B16595090043D2EC5209EC52903C4FBAD258DA D	Cross Sign CA
144	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	F349954E8FB6D44011BCB789D97D9A2CB2032BD5F0B598D1FB8A099F5848D523	Cross Sign CA
145	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	C84E1378B974A991ACDCDD733421E3061E6FA21A0491C8902BAFDE3855E0063 E	Cross Sign CA
146	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	33EF151EFB08D1C44FB85CC3F23EC6873014E9F881691BD4938B7F251580B694	Cross Sign CA



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147	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	445EEC78BC61215044A0379656AA2D5DB5E42F76CB70B8D14C2077AA943D4EB B	Cross Sign CA
148	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	C94FEDDA4E8608908580BC7F87B434E03BB262E42F64C63820A8F50FB17C1CEC	Cross Sign CA
149	CN = GlobalSign Root CA, OU = Root CA, O = GlobalSign nv-sa, C = BE	6ADD368DA35458A09EDF880D0570E863ADC8507D49406B4D97E44E53BC9308C 9	Cross Sign CA
150	CN = GlobalSign CA for AATL - SHA256 - G2, O = GlobalSign nv-sa, C = BE	AA89C466E9D06882C0DAAF72BE0F0FBCFE7C1EF2AAAD190640C4AD44F5517F34	
151	CN = GlobalSign CA for AATL - SHA384 - G4, O = GlobalSign nv-sa, C = BE	AC0AB963BB5F3DA05FBC8687F98C2B6EA0BB499E6118C1A9136B1BC7C3C71A6 B	
152	CN = GTS Root R1, O = Google Trust Services LLC, C = US	3EE0278DF71FA3C125C4CD487F01D774694E6FC57E0CD94C24EFD769133918E5	Google Cross-certificate *

Timestamp CA			
#	Subject	Fingerprint SHA-256	Additional information
153	CN = GlobalSign Partners Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	2A015531A5F3A4CE589BD853C71DD069587322F574D85C9C9B9F9DF8F86C075E	
154	CN = GlobalSign TSA CA for AATL, O = GlobalSign nv-sa, C = BE	4D8EB49380EC72AC9FDF21FE1C6DB2E9490C76BEADD1F7B528C3CCD272C8FE28	
155	CN = GlobalSign Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	F642418E4D0C63DEC785C960EFA68BA745F38851744EF81F225CB89305314D50	



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156	CN = GlobalSign Partners TSA CA for AATL, O = GlobalSign nv-sa, C = BE	7E8F914119BB1090D6204908E5AE1F40BE24C1491CD7D5CFB6A93618CBC00FD9	
157	CN = GlobalSign Timestamping CA - G2, O = GlobalSign nv-sa, C = BE	C977923C771E1A66C925A2B6F501732E678DC9887AFE6BFAAC039D1D9A71FOE C	
158	CN = GlobalSign Timestamping CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	9BF9496777D14425ED0086C1BB2C0707B62A61C194C5162E4F07637AFF166B76	
159	CN = GlobalSign Timestamping CA, O = GlobalSign, OU = Timestamping CA	DOCAE6947BC77F0B495CA808D6CDE685FCD20225E1E530B635B113ED40728EF3	
160	CN = GlobalSign Timestamping CA - R3, O = GlobalSign, OU = Timestamping CA	61C1067083AE044EF1D649CE590BBF09D9D739E025DA8D195F71CFAAD6EBAE6 9	

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

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

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





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

Other CA			
#	Subject	Fingerprint SHA-256	Additional information
11	CN = GlobalSign Timestamping Root E46, O = GlobalSign nv-sa, C = BE	24E9A5B561CDFEFEEEB73245DAC1B04465C513F936621D21902DD8A58FD6C461	Cross Sign CA
12	CN = GlobalSign, OU = GlobalSign ECC Root CA - R5, O = GlobalSign	0AED971671F8FE67EBA28817550AFEE946FDC2C52250003A6CFB87BC5AAD8A04	Cross Sign CA
13	CN = GlobalSign, OU = GlobalSign Root CA - R3, O = GlobalSign	2510E248903F01B63F9398179E5506979F0EF507E4174B657AF6F770A417EC94	Cross Sign CA



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14	CN = GlobalSign Timestamping Root R45, O = GlobalSign nv-sa, C = BE	6AFBC07C724C6F75C7743392F32BF5780BD5DD39268544D4882E7AEC1ADD028 2	Cross Sign CA
15	CN = GlobalSign Secure Mail Root E45, O = GlobalSign nv-sa, C = BE	5B87841E80AAFE877804E56694473DCA8BB9F1FF4FFCF885A3DAFD24463FCB64	Cross Sign CA
16	CN = GlobalSign Code Signing Root R45, O = GlobalSign nv-sa, C = BE	6385DDCD1B768648267EE5122897CA085FC45D6030ECB55098F583AF152AA4A 6	Cross Sign CA
17	CN = GlobalSign, OU = GlobalSign Root CA - R6, O = GlobalSign	75BFB522CC4B58DA22EE488517C5F2EFF92576D20F595F9ACE483A036FC1BB6B	Cross Sign CA
18	CN = GlobalSign Code Signing Root E45, O = GlobalSign nv-sa, C = BE	E506B72BB97A14D24959A0D1A977E1ACDB6155D68FB4846885E544D147E7D57 7	Cross Sign CA
19	CN = GlobalSign Client Authentication Root E45, O = GlobalSign nv-sa, C = BE	F375270F2F216B9F62CC31795619F6FE1943DF65D1B198D3341170A40725BFC7	Cross Sign CA
20	CN = GlobalSign Secure Mail Root R45, O = GlobalSign nv-sa, C = BE	5268C94573AF66BA5A3DE979F2048DE43BD4B68AF0B73A2D639159FAFE637F69	Cross Sign CA
21	CN = GlobalSign Code Signing Root R45, O = GlobalSign nv-sa, C = BE	05E0634B1FEB98AE6B4CF101728CF9D5A1793CEACE301506FF332B22D4CF08EB	Cross Sign CA
22	CN = GlobalSign Client Authentication Root R45, O = GlobalSign nv-sa, C = BE	3DA135562E942799D547CA72EA57D7AC03791B24D4E24BA2E1E1331E8A1678F 0	Cross Sign CA
23	CN = AbbVie Atlas R45 AATL CA 2022, O = AbbVie, Inc., C = US	6FD7EEFF0B14D389FC8115B4FCDF64EED38F29573F0B3969C71BEB0FE55C3F5B	



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24	CN = Statoil Qualified CA, O = Statoil ASA - 923609016, C = NO, DC = statoil, DC = com	5E297C0107659C8068CC7674635E56F74D05BFD6E687D3075FC48C7E8FF70D95	Revoked on March 31, 03
25	CN = GlobalSign R45 AATL Root CA 2020, O = GlobalSign nv-sa, C = BE	B296DC3BCF451217D7AD4F84FB8EE25CC92FC659CAFA0EB4A8B5B4DB3D0215C2	
26	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	F5E9E2705AB0C93E80652D2DEB573AB01D6700597BDA122BC08BA97FDC71336 8	
27	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified Authentication CA 2020, O = GMO GlobalSign Ltd, C = GB	1DBC5465732AC3232FF12641C2898EA0F239D06186DD1B085496ABC6E5BD07F 2	
28	CN = EUSPA AR45 SMIME CA 2021, O = European Union Agency for the Space Programme (EUSPA), C = CZ	A2F5C0CD7364E1123B21556FB7999BEA8E9F0AEF399A3544CD12EB83C238BA1E	
29	CN = COMESA GCC R45 SMIME CA 2021, O = Common Market for Eastern and Southern Africa Secretariat, C = ZM	C50DECEFBBC246CB07F4FEB282A7633337721F787F8EB68D897F05284FF94FA8A	
30	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Authentication CA 2021, O = GlobalSign nv-sa, C = BE	9BBAB193D19DBA9BA86497C633E89EB421131D29B64129B449832BEC2CC8259 F	
31	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified Authentication CA 2021,	102DCE6691C0B6DF7CD2521AF88C3546D7582A2CB7DAAD087F9C7DB2AF8351C 5	



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	O = GlobalSign nv-sa, C = BE		
32	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Non QSCD Signing CA 2021, O = GlobalSign nv-sa, C = BE	96B67EB3D828223480405557E3993A3B1781D527294D1978EB0C4ABCC6F40AF 2	
33	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified QSCD Signing CA 2021, O = GlobalSign nv-sa, C = BE	7A25E3C7B2B3325C5E65D01B9F6FF474ADE4BBCC8CCA3D7F29655352386F36B7	
34	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified QSCD Signing CA 2021, O = GlobalSign nv-sa, C = BE	625597092D6B09F1AB74ECF29F38E0E1C41AF487594B23489A8A604687ACAD9 9	
35	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified Non QSCD Signing CA 2021, O = GlobalSign nv-sa, C = BE	DBFF9EBA713FF77B60D52B37F35C5AD52D9CD06412F3BAD9128D77D95C7B887E	
36	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified Authentication CA 2020, O = GlobalSign nv-sa, C = BE	5F2155F9A7444615C673994CDA99E963BB558A367B20305520E93D15EF3AF4E8	
37	CN = NAESB GCC R45 Client Authentication CA 2020, O = GMO GlobalSign Inc., C = US	5EBD04144508FADD1B9DB79FF62B826D6FF893987B1534C0F8EEC2261D6AC452	
38	CN = InComm Agent Solutions Inc Atlas Issuing CA 2020, O = InComm Agent Solutions Inc, C = US	4DFD9A61EB32208A94F15719FF2EC71449BCB0F344C18D5D1D3994A6C30EC92E	
39	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified	EEE8A6FBDE0B1340552AE739832A686FE96103435AE1FCE9392D655E00D8670D	



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	Authentication CA 2020, O = GMO GlobalSign Ltd, C = GB		
40	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified Authentication CA 2020, O = GlobalSign nv-sa, C = BE	E042DA36AA8B9A290A525B63AFBBD42E3DBA8286F7100C7981799C6EF2F8919 C	
41	CN = GlobalSign GCC R45 PersonalSign 3 CA 2020, O = GlobalSign nv-sa, C = BE	50161C1232F32E8057879F9C7651A9088F5AA1EF5AC9A9A4BD445C6E788EA6F8	
42	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	28CB8EE23E7BDBBF40B2959A57BB589991C2635CD3B71AAB0E84F993C559D29F	
43	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified QSCD Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	712C42F3C0FA3BDFA11B22AC9811C8EB912C4B464B43C705825DEEDC1195AD3 3	
44	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified Signing CA 2020, O = GlobalSign nv-sa, C = BE	35E9429CDE680D8D5311CDD46FAEF0AEE694B0556C3D69C4F670E243D64C87FE	
45	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified QSCD Signing CA 2020, O = GlobalSign nv-sa, C = BE	8115E2CB4F04E56EA70EA932D0622831DD53B22BF6A93B3ACD9125FAB0374AF 1	
46	CN = GlobalSign E45 AATL Root CA 2020, O = GlobalSign nv-sa, C = BE	87903E20623512D28BDBFACE4D41BD50F5BA6B1B2E8CCAB134CE161769EAECO 0	



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47	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas E45 UK Qualified Remote Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	B89EBBFC57AE60653C676B8EB399DC9415BBB738CB0370651A86BFF075C83A39	
48	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified Remote Signing CA 2020, O = GlobalSign nv-sa, C = BE	5CB0FDEF052BD18A0A40ADA2235F46EB42B6D0993ED5A50DE47E3EA12FF191B1	
49	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified QSCD Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	91F881C556A920B92C4C48221FAAC19615437CF4ACB7D079C0B426BF3483B3A E	
50	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified Signing CA 2020, O = GlobalSign nv-sa, C = BE	4E1474CFEB41D048C7E1E2C975D69AD3FD739BD44577A80D0432F233D51C5C7 7	
51	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified QSCD Signing CA 2020, O = GlobalSign nv-sa, C = BE	1B728D4A76506634A11007912F1D8C6B9AA39BE1AFCA49096657CF1FFB4513BF	
52	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas R45 UK Qualified Remote Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	0958E7A84F392A4F3B7DC5E30FDC8DF733E69B44C68C16FC0DA1741C08419DA0	
53	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Remote Signing CA 2020, O = GlobalSign nv-sa, C = BE	323F35F0DFB01D6B478C24026C66852AAD3E96DCB1C5BE17C1DA1EC47D77CC8 7	
54	CN = GlobalSign GCC R45 AATL CA 2020,	BCF8D9040635C95E84F9FEDDF36F9422C0D215C23798E9C2D5F3798ECF27B68A	



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	O = GlobalSign nv-sa, C = BE		
55	CN = GlobalSign Atlas R45 AATL CA 2020, O = GlobalSign nv-sa, C = BE	65573E11BB13C6ED115E0B90E2C30B1E4DE4D5CAC1B31EAB2D417C32A3DA5D79	
56	CN = European GNSS Agency Atlas R45 SMIME CA 2021, O = European GNSS Agency (GSA), C = CZ	F4EFE27C6B037747B3A89E23EE23C1B70A24DEB53B2E02F423BBOF73E1822267	
57	CN = GlobalSign Primary SHA256 CA for Adobe, OU = GlobalSign CDS, O = GlobalSign nv-sa, C = BE	8B8AAA67E1EB067303F09E17A505CE7B6CA1C8DC0E1DB59D982B579C69D644E1	
58	CN = Statoil Qualified CA, O = Equinor ASA, C = NO, DC = statoil, DC = com	0A665640BE77300E0DF23752F324499E132A99A7E5A81879AA9E58B65F501C97	Revoked on March 31, 03
59	CN = EY LLP GCC R3 SMIME CA 2020, O = Ernst Young LLP, C = GB	3A093122808FFFA440E19824D0BC7CD6B01D8D8277F7F42FA16E80A0205D4A7A	
60	CN = RWE Atlas R45 SMIME CA 2020, O = RWE AG, C = DE	BEE8FB99D7B9EC0CAEF1B1A6ACFFEABD777E31CBAC2D0E1846BDAEC4D5B18BE8	
61	CN = GROB-WERKE GmbH und Co. KG GCC R3 SMIME CA 2020, O = GROB-WERKE GmbH und Co. KG, C = DE	B75840FEA15C545335CD4BA58B707F53524CE984655AEBCC248A57E6F2403A8B	
62	CN = HERTZ GCC R45 SMIME CA 2020, O = The HERTZ Corporation, C = US	013C13426B92F703BA573D9E16C2E35AECA26C60F606B88D3CE2150C94D56C14	
63	CN = GlobalSign Atlas R3 SMIME CA 2020,	479D6A0980722966237F06C41842EE796B55D4D00A0D663B785D48433A29156E	



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	O = GlobalSign nv-sa, C = BE		
64	CN = Accenture Federal Services GCC R3 Global CA 2020, O = Accenture Federal Services LLC, C = US	9D61B40ECFE094B415FBF6AEEA1FDB27A1A4C3B6FD9008D768777D6D7FBAAEE9	
65	CN = GlobalSign ECC HV S/MIME CA 1, O = GlobalSign nv-sa, C = BE	EOCE5C4EF5D2186963D2B04ADE4612BBAF787E16048A5B468F7367776C3A03DE	
66	CN = GlobalSign Corporate IT Atlas R45 SMIME CA 2021, O = GlobalSign nv-sa, C = BE	7C4E78C74B4818D17EF8B8AB91E32DB4F7E3CE84A0C5E47AAA62AE39FAB60D0 1	
67	CN = CBMM GCC R3 SMIME CA 2020, O = COMPANHIA BRASILEIRA DE METALURGIA E MINERACAO, C = BR	F6F9C3FC5636C7E800EB1BDDFD33AAF98495C130DBF48F9BAF4AB7A1F665DFB4	
68	CN = DPDHL User CA I5, O = Deutsche Post AG, C = DE	163B5F69720164075C16CE760A93C85D5073CD5A0D41C7A3AFB0B5E75B3DC64 6	
69	CN = GlobalSign Atlas R6 AATL CA 2020, O = GlobalSign nv-sa, C = BE	96D0E059827A7C99BA5CF586D1B77397A3C83777C467BF1914762AE16ABE383 4	
70	CN = AbbVie Atlas R6 AATL ICA 2020, O = AbbVie, Inc., C = US	6509F94BCA4DC619F3E732D533ACD3D0F10ABA102A13123B6AF737C8E12DAA2 1	
71	CN = Trusted Root nonTLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	3A30D4A3043F195609E30F747754699CC6CC97E1F5FCB83DE87E659E579E39AD	
72	CN = DSigner GCC R3 SMIME CA 2020, O = DSIGNER, SOCIEDAD AN\C3\93NIMA, C = GT	3FA4A9B65FDF6876FE668DFECC434932EBC254FD741119FC432A5989A085F320	





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73	CN = Hyperion GCC R3 SMIME CA 2020, O = Hyperion Services Ltd., C = GB	9537738522B6A87FCF8338CF270203CCF1A7770BB14BB23FA2882A05FFB804E4	
74	CN = GlobalSign GCC R3 PersonalSign 2 CA 2020, O = GlobalSign nv-sa, C = BE	F0DBB9E90E6643CCB23660147E5DE24760440089D96F4AD0D82F66C3E7DA5C20	
75	CN = JCAN Public CA1 - G4, OU = JCAN Public CA1 - G4, O = JIPDEC, C = JP	9AC4C8E358C095C998122ADD17A336C0AC597ECBECB7EDC3F58A75040CF94A5F	
76	CN = CRB Group GCC R3 SMIME CA 2020, O = CRB Group, Inc., C = US	814179F36A71529C915C540261E44638E37A4FCE879740F0CE7351A8E9291A03	
77	CN=Quáalitas Compañía de Seguros S.A. de C.V. GCC R3 CA 2020; O=Quáalitas Compañía de Seguros S.A. de C.V.; C=MX	795A8468D098E3729E6A17920AA6D8F27E84DC180F85C9B28A77FB368DCC7895	
78	CN = GlobalSign GCC R6 AATL CA 2020, O = GlobalSign nv-sa, C = BE	75CC6021036890EAC71853FAE8382CF8DB33DC41706F42AAFE421E98AD38174C	
79	CN = GlobalSign GCC R3 PersonalSign 1 CA 2020, O = GlobalSign nv-sa, C = BE	583C7FC250856B7F947FC7CC076FE216273CA1713D122C2E5D8F6038FD6E3562	
80	CN = Giesecke and Devrient CA, OU = Corporate CA, O = Giesecke and Devrient, L = Munich, C = DE	4AB23AF5233FD65FBD981973515A7379C76B9B852A5B4E35890B7F60D1923A4F	Revoked on March 31, 03
81	CN = FIFCO Atlas R45 SMIME CA 2020, O = FIFCO, C = CR	80642AAC7C782BCDB0C3F6F385488F9BE3BB2DE30B863009E74B29F026C9EAE6	



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82	CN = Trafigura PTE Ltd Atlas R45 SMIME CA 2020, O = Trafigura PTE Ltd, C = SG	36FCE16CC976727765DF5E9FADB12C544D704C35150D1F17DDE1A42A85B88BE4	
83	CN = Spirit AeroSystems GCC R45 SMIME CA 2020, O = Spirit AeroSystems, Inc., C = US	90D87E23B012A357851472CE9F4E49201F67BA9EC1FB9CD236C0C5AAA15FFE9E	
84	CN = LinQuest GCC R3 SMIME CA 2020, O = LinQuest Corporation, C = US	DDD73ABF0259F18F77CA598C2745EA18243526B10D371D7E3B088D68C88C0A97	
85	CN = DexKo Global GCC R3 SMIME CA 2020, O = DexKo Global Inc., C = US	D531F24E655D1F28A344BD3E0E9B141CE88A4139C61CB0CF5184EF2E2B9531A7	
86	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Remote QSCD Delegated RA CA 2022, O = GlobalSign nv-sa, C = BE	AD304215A70BF5D06E84973BF49862F10CFF490DA9C97D1D6FA6934F8E3C98AF	
87	CN = Ford Motor Company - Enterprise Issuing CA01, ST = Michigan, L = Dearborn, O = Ford Motor Company, C = US	7B96DA88C60AE48624F480217865FEB124719022F49E58EE830B3E93D36D9AEF	
88	CN = InComm Agent Solutions Inc Root Certificate Authority, O = InComm Agent Solutions Inc, ST = Florida, C = US	ECF5DC23556585AE8F9CE5BA0955F982AFF77E975F84C53F4A098626C20BFE5A	
89	CN = Giesecke and Devrient CA, OU = Corporate CA, O = Giesecke and Devrient, L = Munich, C = DE	A53FB60B6C9CEC1175C729BB8A34D1AA1DA85AF234E41603621D983940026400	

Timestamp CA			
#	Subject	Fingerprint SHA-256	Additional information
90	CN = GlobalSign E46 AATL TimeStamping Root CA 2021, O = GlobalSign nv-sa, C = BE	2A34A0225DBC82845E8C5F2F13897179A9B2D91E74D93BDE0021F4F89804E59F	
91	CN = GlobalSign R45 AATL TimeStamping Root CA 2021, O = GlobalSign nv-sa, C = BE	3A6224E6EF98D0C4770C229E89CFA346623DF5A250D4B68D04CD5DA4BD85C4C E	
92	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas R45 UK Qualified Timestamping CA 2020, O = GMO GlobalSign Ltd, C = GB	4C03F2D6941F2DFCA27EDC599F385E6CD3FFD0CC842F2CCB95B77580A2D1FF93	
93	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Timestamping CA 2020, O = GlobalSign nv-sa, C = BE	D86E6264D58E4CA78AF419740D8186EA8EC48F0C33B4B4D7CA027931D627B1C 8	
94	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas ECCR5 UK Qualified Timestamping CA 2020, O = GMO GlobalSign Ltd, C = GB	40382F8827B75D25705A6B3DA32533C5F4218BD7FA697CB0B300E8F47047FBC9	
95	CN = GlobalSign CA for AATL - SHA256 - G3, O = GlobalSign nv-sa, C = BE	2E8820DC0EAF AE3D6D285C057ECE14470B377438B002CEDD4C72B4F343A54F43	
96	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas ECCR5 Qualified Timestamping CA 2020, O = GlobalSign nv-sa, C = BE	E55A4FE881A4B0433674EC0E5CC261A99CCE3FEF649528C7218085BEDCD11512	



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97	CN = GlobalSign Qualified Time Stamping CA 2019, O = GlobalSign nv-sa, C = BE	74ABE5E5CCEB75491FF72C4CF325405D8ADBF390E189CF430BA60E62798878E	
98	CN = GlobalSign Timestamping CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	BE33D1C57EBDDD927B57BDB604BE457B552FE568E7F3DCBA093C39ED1C30A239	
99	CN = GlobalSign Timestamping CA - G3, O = GlobalSign nv-sa, C = BE	95C6A747DD0BC755A1941827E894B8083592241B792541E2EB1B30FB9B13F57F	

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

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

## GlobalSign Management’s Assertion

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

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

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

GlobalSign management has assessed its disclosures of its certificate practices and controls over its SSL CA services. 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 SSL Baseline Requirements i.e., 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 SSL Baseline Requirements.</p> <p>This caused WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.6, Principle 2, Criteria 2.15 and 4.2 to not be met.</p>	<p>Principle 2, Criterion 2.15: The CA maintains controls to provide reasonable assurance that Subject information of Certificates conforms to the Baseline Requirements, including: (...)</p> <ul style="list-style-type: none"> <li>• subject:localityName</li> <li>• subject:stateOrProvinceName</li> <li>• subject:postalCode</li> <li>• subject:countryName</li> </ul> <p>(...)</p> <p>Principle 2, Criterion 4.2: 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 SSL Baseline Requirements:</p> <ul style="list-style-type: none"> <li>• Identity (SSL Baseline Requirements Section 3.2.2.1)</li> <li>• DBA/Trade name (SSL Baseline Requirements Section 3.2.2.2)</li> <li>• Authenticity of Certificate Request (SSL Baseline Requirements Section 3.2.5)</li> <li>• Verification of Individual Applicant (SSL Baseline Requirements Section 3.2.3)</li> <li>• Verification of Country (SSL Baseline Requirements Section 3.2.2.3)</li> </ul>



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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 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 SSL certificate lifecycle management business practices in the applicable versions of the Certificate Practice Statements and Certificate Policies, as stipulated in [Appendix A](#), including its commitment to provide SSL certificates in conformity with the CA/Browser Forum Guidelines, and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
  - The integrity of keys and SSL certificates it manages is established and protected throughout their lifecycles; and
  - SSL subscriber information is properly authenticated (for the registration activities performed by GlobalSign)
- maintained effective controls to provide reasonable assurance that:
  - Logical and physical access to CA systems and data is restricted to authorized individuals; and
  - The continuity of key and certificate management operations is maintained; and
  - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity
- maintained effective controls to provide reasonable assurance that it meets the Network and Certificate System Security Requirements as set forth by the CA/Browser Forum

in accordance with the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security, Version 2.6](#).

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





**GlobalSign**  
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Appendix A – Certification Practice Statements and Certificate Policies in Scope

<b>Certification Practice Statement</b>	<b>Begin Effective Date</b>	<b>End Effective Date</b>
<a href="#">Version 9.7</a>	March 30, 2021	September 30, 2021
<a href="#">Version 9.8</a>	September 30, 2021	November 30, 2021
<a href="#">Version 9.9</a>	November 30, 2021	March 15, 2022
<a href="#">Version 9.10</a>	March 15, 2022	

<b>Certificate Policy</b>	<b>Begin Effective Date</b>	<b>End Effective Date</b>
<a href="#">Version 6.7</a>	March 30, 2021	September 30, 2021
<a href="#">Version 6.8</a>	September 30, 2021	November 30, 2021
<a href="#">Version 6.9</a>	November 30, 2021	March 15, 2022
<a href="#">Version 6.10</a>	March 15, 2022	



## Appendix B – In-Scope CAs

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

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	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	

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DV TLS Issuing CA			
#	Subject	Fingerprint SHA-256	Additional information
17	CN = GlobalSign Atlas R3 AlphaSSL CA 2022 Q2, O = Globalsign nv-sa, C = BE	45F1854530EC037AAACB4B2DE9B4D0FDBFC61888ABD4EE0414183D99E60437AC	
18	CN = GlobalSign Atlas ECCR5 DV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	15B63CDD772A8D42DC5E48174C1F7E3D40FC82C478DF3A6443C7BD92FBC6D5DE	
19	CN = GlobalSign Atlas R3 DV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	735CC386EC1A82E657A5B451C94959611D3C7D0CBB1FD9D9EDB42C7192F8463A	
20	CN = GlobalSign Atlas ECCR5 DV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	7B063A9CD48767C475AA6BCED4667CDC56068F8B7B895125BC4EB24682EEB606	
21	CN = GlobalSign Atlas R3 DV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	2DFE47E144ABB39F9FE451CECD352D9A9BD28982351E8B6524FEB101DBAB1FEC	
22	CN = GlobalSign Atlas R3 AlphaSSL CA 2022 Q1, O = Globalsign nv-sa, C = BE	A04FA69E84CCD44F5E526B558631E346B21417D4D1B606A08CADE3928DBF1158	
23	CN = GlobalSign Atlas R3 DV ACME CA 2022 Q1, O = GlobalSign nv-sa, C = BE	92651CD48A0288AA3075354DDC15DC24D0AF8EE67015B68A145970A093475E19	
24	CN = Alibaba Cloud GCC R3 DV TLS CA 2021, O = Alibaba Cloud Computing Co., Ltd., C = CN	8F3E5D6858B927D284FDB85A1B15875CD78E63B820C20DDC539CCD84B0C1A6AA	
25	CN = Alibaba Cloud GCC R3 AlphaSSL CA 2021, O = Alibaba Cloud Computing Co., Ltd.,	7AEDE5374ECA9FF34C5727C10DB982222D753157797449B88364F70EEFA0C24C	

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	C = CN		
26	CN = GlobalSign Atlas ECCR5 DV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	727A9069A3C60D213584E616D5BF55DFD19C71A3976645EA6A73B18F83760D24	
27	CN = GlobalSign Atlas R3 DV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	D9E4A803FB498EEE9379FCF90AC3067AE65D098CC77890C37E575E249CD7D7C9	
28	CN = GlobalSign Atlas ECCR5 DV ACME CA 2022 Q1, O = GlobalSign nv-sa, C = BE	A262F7D653E6C745EEABEBF6672A756B501A82F06708F2B5E77916217037BBCA	
29	CN = TK Elevator Atlas R6 DV CA 2021, O = TK Elevator GmbH, C = DE	988D6B2D87BAF43821C4D304BE2B0E8F325DC17B7A220E934F5C5B7BADFF8E1C	
30	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	EE793643199474ED60EFDC8CCDE4D37445921683593AA751BBF8EE491A391E97	
31	CN = GlobalSign Atlas R3 DV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	1DD095449FFB3CFF14B2224D596B83FD42F2B47683553C797D11150C918691BD	
32	CN = GlobalSign Atlas R3 DV ACME CA H2 2021, O = GlobalSign nv-sa, C = BE	B254F3CDEAF1D29AB53CB439E80FB996F1E90A283E9B5085B8749D18E4F5987B	
33	CN = GlobalSign Atlas R3 AlphaSSL CA H2 2021, O = Globalsign nv-sa, C = BE	11B6DB5B68DCDF34479AE7E7B7BBAA7165905577AD83D474F2BB9717CE244CEA	
34	CN = GlobalSign Atlas ECCR5 DV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	6916DA916EE1B1E98CB31EE94730EECD7F2C077965BDB8D4E16A3B81C58A29B6	
35	CN = GlobalSign Atlas ECCR5 DV ACME CA H2 2021,	61B30CEAEA0C8C6397C3599829809CB73CA8F817BB9CDF000D7453E442438028	

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	O = GlobalSign nv-sa, C = BE		
36	CN = CUISEC GCC R3 TLS DV CA 2021, O = 联通智慧安全科技有限公司, C = CN	692FE1B8BA2699531DE4CD2F52AE38FA119AB01F4B31AB78FE6DB3FDF03A7031	
37	CN = VTB BANK GCC R6 DV CA 2021, O = VTB BANK (PJSC), C = RU	95BA96F72CB314ECD05CE0FD75D886381A368C8F5869F04BDD3024893F4E393B	Revoked on April 06, 2022
38	CN = GlobalSign Atlas R3 AlphaSSL CA H1 2021, O = Globalsign nv-sa, C = BE	1ABC5AD5BC3911A5B4A91E42BBA3212E2AA3DC80147EFE1D49572E4BE0532633	
39	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	BFDF4CF3F143AD0DB912D8AB3A7C12F617B9EA60CE8B1F4E44F74270FB21B19B	
40	CN = GlobalSign Atlas R3 DV ACME CA H1 2021, O = GlobalSign nv-sa, C = BE	70F5C63C4F112837AB99870B0ECB5D722EEA0B0D0DDB9320B98B99B9BD137866	
41	CN = GlobalSign Atlas ECCR5 DV ACME CA H1 2021, O = GlobalSign nv-sa, C = BE	E7757BB0C4942ADC108D092A17B812B1043E06A094DD5E214920325556FC6924	
42	CN = GlobalSign Atlas R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	B65FE6A1BF2D52FF68B7D3E9D0F06B300A1C3F248309B70405CA7BDEC054BDDD	
43	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	8C2410F76B149CA062B420AB611B6BF0A06E6E799A29587E4D4EC16D0537B7EA	
44	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	37D080A5E9A526663E56EE20DE4BD9F7952DACC341491439080167AD5DD18CAC	
45	CN = Valid Certificadora Digital SSL DV CA 2018,	FCF26FBC1B2A25A76AB4EA92B2CBEF367E0131091C802DA49898F78AE54B30F8	

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	O = VALID CERTIFICADORA DIGITAL, C = BR		
46	CN = Valid Certificadora Digital AlphaSSL CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	04DE47A9CDD3091CFC5EF6AAA3B7D4B53E13C4D4DC02364F6C0B408742EC3C76	
47	CN = Soluti CA - DV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	5C452334D9C9C9A2EA42CC77A7165E1795EE9D84EB70CB784B47EA9D92A582D9	
48	CN = GlobalSign Domain Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	09BC1B137C031239EF788673E94EB17F5F3ECAB07D3ADBFB485E75ABFAAF3B9A	
49	CN = GlobalSign GCC R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	762538439509C411C437D3C567563E1378671281FC4A1464ADD031870843676E	
50	CN = AlphaSSL CA - SHA256 - G2, O = AlphaSSL	933E4A2D8DB1FF9FF0E508EA7F1637E074F660FE6F365A2233DFC2B52C889D98	
51	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	5A817EADA4AD78734EBB2CF674352D97F4352290C40EAF10E764B1EAC075B0E6	
52	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	669E7727A92BE72D9718E16922DC1BC1492B1AF33FA4793E68D8778F19A2EBE0	
53	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	6F335DD7CD4AAA1D9140F290E9E7B3498A7CC35A244AA300E146BA2D9D02B960	
54	CN = GlobalSign Atlas R3 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	59F5FF92B608A0119FF1DD7C603E0EB16F4FEAD9D4717AC3BC62D286AE399CDA	
55	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020, O = GlobalSign nv-sa,	72132ECF2F8C75B5F214C00ED14562E14912B7F2F4D2633180F3E4918980FEC4	Revoked on November 17, 2021

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	C = BE		
56	CN = Alibaba Cloud GCC R3 DV TLS CA 2021, O = Aliyun Computing Co., Ltd., C = CN	0FBBBC699B65EA9B676F1042BE3F093224CB1F769F142579B8CA023AEDD6E706	Revoked on November 17, 2021

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OV TLS Issuing CA			
#	Subject	Fingerprint SHA-256	Additional information
57	CN = Trusted Root TLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	91F19CE503C9FE7FF9587D8EFBEF7315AAEE77DC2D14526126493B4AD6FE801F	
58	CN = GlobalSign Atlas ECCR5 OV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	A816AFF7746EA0F0A0A064C0432F9D2B7D0CE79EC2D1E9940F4A186A25182284	
59	CN = GlobalSign Atlas R3 OV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	AFDB3C396D85D19FBE58206DF0659EAE614C4AB18F5CCF20B783AAF0BBE96A03	
60	CN = GlobalSign Atlas ECCR5 OV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	CB2C685CB214DCD2F2CDA6E2C155AAF21A7E134BC0BCE808B1130C459125B0A4	
61	CN = GlobalSign Atlas R3 OV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	D50B20ADFF959BFBEE83B6FD1FAB36FDE7941B960CFC6839AAC63B9FFDB46413	
62	CN = GlobalSign Atlas ECCR5 OV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	F9D3214AD6F5D6D2B3C8161F96028B76812B058614A66786B92C8FEBDAC020EE	
63	CN = GlobalSign Atlas R3 OV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	536A35A3FA630379CF3B4D4B4E1395AF9CFED2243138E634E4369A31E2872843	
64	CN = GlobalSign Atlas ECCR5 OV ACME CA 2022 Q1, O = GlobalSign nv-sa, C = BE	218C470B78B02D39B84FC6892F5A1FE9C99D6B9A6B8B7471E039EDCFCA91004C	
65	CN = GlobalSign Atlas R3 OV ACME CA 2022 Q1, O = GlobalSign nv-sa,	EA532E6D78FF00FD4F56447F7E0A47D239D945424B77CF0D15A795CB4EE602BD	

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	C = BE		
66	CN = GlobalSign Atlas R3 OV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	4E1A564C71A04288970E53C037D1CFC25C1F9BEFC5276CF3BD501EE262F04202	
67	CN = GlobalSign Atlas ECCR5 OV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	90AF1B61A082662A639CAA68C6A3FB41EBBA3760C351A4A1E89FB6DACAD486FC	
68	CN = Alibaba Cloud GCC R3 TLS OV CA 2021, O = Alibaba Cloud Computing Co., Ltd., C = CN	31A096A1CB918876EE57C85B2349FC9CC2C2CB4FCF9BDD37787CE9DA57AF4790	
69	CN = CUISEC GCC R3 TLS OV CA 2021, O = 联通智慧安全科技有限公司, C = CN	C7F145D474F5DC20B27A64E1696179522469078B333FE8FF887B97CE7805E362	
70	CN = VTB BANK GCC R6 OV CA 2021, O = VTB BANK (PJSC), C = RU	312AB012744F859EEF8AE0FA25D0259E89DAAF51B94FAC67DFC61060F0DB2207	Revoked on April 06, 2022
71	CN = ATT Atlas R3 OV TLS CA 2020, O = ATT Services Inc, C = US	DC2728331312E75C4D7B442F3BDDA790CB77A9D6AC854D5BCE18AC43CA59909A	
72	CN = CrowdStrike GCC R3 TLS OV CA 2020, O = CrowdStrike Inc., C = US	78CB512DE48CEDCD7134DF57C973C1E1A07692B8F542A44ACEBB8BB776D55D59	
73	CN = DPDHL Global TLS CA - I5, O = Deutsche Post AG, C = DE	32A4E554E363116FE48E22F01DAC1736752A71C720F99F462D565022D3BAD07D	
74	CN = RNP ICPEdu OV SSL CA 2019, O = Rede Nacional de Ensino e Pesquisa - RNP, C = BR	88FC18BD071BE1FBC53FFBC801F03F5B2C4DA87BBA0C098E2B4808F19EAB05FE	
75	CN = SHECA OV Secure Server CA, O = Shanghai Electronic Certificate Authority Center Co., Ltd.,	AD7B58C3C5D9586BE5B62799C2792C4111C9852A96F7B0607221265713957E1C	

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	C = CN		
76	CN = Valid Certificadora Digital SSL OV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	6B4F9DE13678846730D50E914A08E7BE9B742CA3A0A7D5393367830B93A6F553	
77	CN = Soluti CA - OV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	AB74B1411AD23E2227FB88A2A9304A1A45A5C4840B3635F1036A46E8374279AC	
78	CN = Prodrive Technologies B.V. OV SSL Issuing CA, O = Prodrive Technologies B.V., C = NL	580BB3AB127F5E13E940AE7365E3C69A62AD204D7FDFA451592FE7C47DC02A95	
79	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	E0C2EBD1F6BAD4FEAAE31A3107E69ABEE902DB38B9DFBE33F0570BDA3494C20A	
80	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	4B7334E1D8999822BAFA8FF6888125389B18A4E5AB26FFA624C7F68FDC81F0CB	
81	CN = GlobalSign ECC CloudSSL CA - SHA384 - G3, O = GlobalSign nv-sa, C = BE	B0CD6AE7B9E20EC5F830FEE01F666D5D90E6E229D06BC46A30ACCEDFEC889648	
82	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	0B339212D7CFF17A2C59E35669B58E77350133750A78DA9404770EDD470DEF76	
83	CN = GlobalSign RSA OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	B676FFA3179E8812093A1B5EAFEE876AE7A6AAF231078DAD1BFB21CD2893764A	
84	CN = GlobalSign Organization Validated ECC CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	65EEC0CC6C970CC1CD73659115DC8D904E6F12E6DC8FD4DDA39D54CB30224780	
85	CN = GlobalSign ECC OV SSL CA	87C71553445EB3C33C3E0710711B99E9C7773F04D91AC38A9F4C082EE24101EA	

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	2018, O = GlobalSign nv-sa, C = BE		
86	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	74EF335E5E18788307FB9D89CB704BEC112ABD23487DBFF41C4DED5070F241D9	
87	CN = GlobalSign ECC384 SSL CA - G3, O = GlobalSign nv-sa, C = BE	DC6C44AC8A3CD5C3451273F4431526B2EF666062EE763258A928F60BD08E39FE	
88	CN = GlobalSign Organization Validated CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	1E1741A12EB8DA2BD76EA96C04F520359839710F620E80952F48DD0240A12CD8	
89	CN = GlobalSign Organization Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	699D54B7482A5D329331EA0415CC2EDCD60FDA01D19E71D054196BCE0677735C	
90	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	1C9737E968AD9DFF8D8D7FCF996A144BB97851A19011A0190C943CAE8D43CFE0	
91	CN = GlobalSign Atlas ECCR5 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	2EB8A1317288F08233E6883CEBE67EA6A0989E22ACA42C58D59F5A834E02C513	
92	CN = GlobalSign Atlas R3 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	A6032CC352F1E2E3628E162A3047BC7D647E2D601A2C0F26CAAF9AAF7A54239C	
93	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	E155EBF96334E79AE2E287D55CFC9185DE24935A653F13C5BA05AFF818771BC6	
94	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa,	C2E4236DB1B757B51B77921388EFA823E6A600FD4BDA30B63AB77886F25618B7	

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	C = BE		
95	CN = Beame.io CA 1, O = Beame.io Ltd, C = IL	0D36F6A2299E9E268F94ADB49E57E6717D713C3F47B889C40DCDC8CFE940CB80	

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EV TLS Issuing CA			
#	Subject	Fingerprint SHA-256	Additional information
96	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	5E2A73EE6069DE65322DCF0430176B385F5238C296EE4392E7ED7DB4BE908A40	
97	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	398DC562DC098CF75F3A151216E583380C279444B0D63E766D9FDF6F47D04C60	
98	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	256602DC8A8041B2EDC0CAE611A6A98D9B39AD4DE3E19F62DC0A0A1958B72271	
99	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	9C9D5E986B5BEA7A1EC8457EBCAA600D2435803B91FEC97C4E5043BE6742D4B1	
100	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	4CFA14BC7E8F48D4677B0604777AF76AB0C55B326F8B97BA95F6ACE115C05F16	
101	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	C9A74009DAE194A40BD122ABD015D44E93CB7879B0949054A31042EF4C99E5D6	
102	CN = GlobalSign Atlas R6 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	0ABB1CDE53CCAC170483DAFCD3CDB9F2622BA7E47D31EC0FD3DB271B4AAA5303	
103	CN = GlobalSign Atlas R46 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	385AA00A1848F807F665561E888B0D4F69614052D825F3C33970E00F4C3658DD	
104	CN = GlobalSign Atlas E46 EV TLS CA H2 2021, O = GlobalSign nv-sa,	44E683576E1C960D784D17BB2325C25CF1BE4E20470C31D9D73CACED496C95C9	



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

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	O = GlobalSign nv-sa, C = BE		
115	CN = GlobalSign Atlas R46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	E1E15D289697AF3285BF34112A3E60BC11C0C8122DD2B9B3420AB2E5E57883CA	
116	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q1, O = GlobalSign nv-sa, C = BE	F2BC379B1EF45624D8F822B6E359502D470F384E53C082F7AE21869C13A5D345	
117	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q2, O = GlobalSign nv-sa, C = BE	250AFA50B60D30D1217D00E7DD8CCE6B51F5C0B6A6369324842C37DEB44F9715	
118	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q3, O = GlobalSign nv-sa, C = BE	9D51DC2750A13BD627D99FDCC720D1904FE81059110BB9DE11B039A4B2ECA531	
119	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q4, O = GlobalSign nv-sa, C = BE	451FA3A18064B4DD03ADFE8B8BBF16258CB98A1A6FEE5D6B0A37C98A0B5E6DAE	
120	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q1, O = GlobalSign nv-sa, C = BE	4D81D18D57CDA96440CBFD0FA05CC387B7C69DE3A9E68B4036E1168EE2B7BD21	
121	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q2, O = GlobalSign nv-sa, C = BE	ED2B6C6F6C669EEC6C158B0FD61E4454185C42842523866F3B3EE9B1F0F62882	
122	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q3, O = GlobalSign nv-sa, C = BE	0DA5820FD4FCF9B9F94C140DB0F06D670D86FCB1BDD9597BCA8731532F353C	
123	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q4, O = GlobalSign nv-sa, C = BE	4EF99E6A8B14F69938715371B1D853472534CBF595A743CE993E7B386F99B895	

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124	CN = GlobalSign GCC R3 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	D4A5941C7141ED1949A0C6CE9DD45A0AB94DC337902EB0A1209852738EEBE854	
125	CN = GlobalSign GCC E46 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	AA76C50166CD1B865B78D795C2C87A48D4A6229E65F8B38DBD005154EB2ED2DC	Revoked on November 17, 2021
126	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q4, O = GlobalSign nv-sa, C = BE	B51D85A08FACB06F97FDF58563749003033EE77DD583986204499197CA8E7077	
127	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q3, O = GlobalSign nv-sa, C = BE	29C840D062AC862DB4D20928D2AEFD83B35A46BD4533995FF2EFD3E3EE8CFFD9	
128	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q2, O = GlobalSign nv-sa, C = BE	A40C91E466D62CDB32B7139E8748F0EB5A817F6BB8A9F999A7A9BF4306D6D5D5	
129	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q1, O = GlobalSign nv-sa, C = BE	A7DCFD3D09377C39BA3A7F630E052EC593E9726D1DA57229E599D15AD6DCCA7B	
130	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q4, O = GlobalSign nv-sa, C = BE	2DA52277662DC1C779E2439FAF58F85F87DBA73E0F16F1B0EB310A4919CFC3BA	
131	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q3, O = GlobalSign nv-sa, C = BE	430B172A6F7146B16A75BCC5BFA1D60C61DEEAA2ABAC61B4394E4A6B291C48CC	
132	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q2, O = GlobalSign nv-sa, C = BE	F4C5F3956379493830DE7456E0A55D6FBC1B8EA08B756488FF005B6C394A69C7	
133	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q1,	F9120A71D50697B9992A7357A0A9A0DDC4BFC3598FCB4F01642964824D3CF276	

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	O = GlobalSign nv-sa, C = BE		
134	CN = GlobalSign GCC E5 UK EV QWAC CA 2021, O = GMO GlobalSign Ltd, C = GB	0966A88729C938F9DCD65BB3C63B608618EAE5183ED1FED752B323089687A20E	
135	CN = GlobalSign GCC R3 UK EV QWAC CA 2020, O = GMO GlobalSign Ltd, C = GB	A33017D9DF494C09D58709107403AEE461B9461E81BA395C28C36693C27D1986	
136	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
137	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	1DF6054D6641404633641BB5FA3742FDA7D075E2514840AB61E00CCBBB7D341D	Cross Sign CA
138	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	45CB1D874CB03BD5C5B6E079C8FC29E51521EE5628486301964A41F94BA59F88	Cross Sign CA
139	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	3F319B2AFED4A0F75127BE59925550D0428E68763A09E273EB6A9FF8D18DBB5B	Cross Sign CA
140	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A63C1398B5F8DD2D432FBE4C2C19142BEA6D5D0221FAE794718AE7597ACCA96D	Cross Sign CA
141	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	0F1554C2FD591B0256A608E1C136A837E7A6E041561EE08A911B2AFDCD3C6C1B	Cross Sign CA
142	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	DDA8DA736187D76F4F0ED5A5F667B54D99A98AE06091D0E3A01714E9221695AD	Cross Sign CA
143	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A5E33C28E3013A71F5F760AE3B16595090043D2EC5209EC52903C4FBAD258DAD	Cross Sign CA
144	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	F349954E8FB6D44011BCB789D97D9A2CB2032BD5F0B598D1FB8A099F5848D523	Cross Sign CA
145	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	C84E1378B974A991ACDCDD733421E3061E6FA21A0491C8902BAFDE3855E0063E	Cross Sign CA
146	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	33EF151EFB08D1C44FB85CC3F23EC6873014E9F881691BD4938B7F251580B694	Cross Sign CA
147	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	445EEC78BC61215044A0379656AA2D5DB5E42F76CB70B8D14C2077AA943D4EBB	Cross Sign CA
148	CN = GlobalSign, O = GlobalSign,	C94FEDDA4E8608908580BC7F87B434E03BB262E42F64C63820A8F50FB17C1CEC	Cross Sign CA

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	OU = GlobalSign Root CA - R3		
149	CN = GlobalSign Root CA, OU = Root CA, O = GlobalSign nv-sa, C = BE	6ADD368DA35458A09EDF880D0570E863ADC8507D49406B4D97E44E53BC9308C9	Cross Sign CA
150	CN = GlobalSign CA for AATL - SHA256 - G2, O = GlobalSign nv-sa, C = BE	AA89C466E9D06882C0DAAF72BE0F0FBCFE7C1EF2AAAD190640C4AD44F5517F34	
151	CN = GlobalSign CA for AATL - SHA384 - G4, O = GlobalSign nv-sa, C = BE	AC0AB963BB5F3DA05FBC8687F98C2B6EA0BB499E6118C1A9136B1BC7C3C71A6B	
152	CN = GTS Root R1, O = Google Trust Services LLC, C = US	3EE0278DF71FA3C125C4CD487F01D774694E6FC57E0CD94C24EFD769133918E5	Google Cross-certificate *

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Timestamp CA			
#	Subject	Fingerprint SHA-256	Additional information
153	CN = GlobalSign Partners Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	2A015531A5F3A4CE589BD853C71DD069587322F574D85C9C9B9F9DF8F86C075E	
154	CN = GlobalSign TSA CA for AATL, O = GlobalSign nv-sa, C = BE	4D8EB49380EC72AC9DFD21FE1C6DB2E9490C76BEADD1F7B528C3CCD272C8FE28	
155	CN = GlobalSign Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	F642418E4D0C63DEC785C960EFA68BA745F38851744EF81F225CB89305314D50	
156	CN = GlobalSign Partners TSA CA for AATL, O = GlobalSign nv-sa, C = BE	7E8F914119BB1090D6204908E5AE1F40BE24C1491CD7D5CFB6A93618CBC00FD9	
157	CN = GlobalSign Timestamping CA - G2, O = GlobalSign nv-sa, C = BE	C977923C771E1A66C925A2B6F501732E678DC9887AFE6BFAAC039D1D9A71F0EC	
158	CN = GlobalSign Timestamping CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	9BF9496777D14425ED0086C1BB2C0707B62A61C194C5162E4F07637AFF166B76	
159	CN = GlobalSign Timestamping CA, O = GlobalSign, OU = Timestamping CA	D0CAE6947BC77F0B495CA808D6CDE685FCD20225E1E530B635B113ED40728EF3	
160	CN = GlobalSign Timestamping CA - R3, O = GlobalSign, OU = Timestamping CA	61C1067083AE044EF1D649CE590BBF09D9D739E025DA8D195F71CFAAD6EBAE69	

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

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

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



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

<b>Other CA</b>			
<b>#</b>	<b>Subject</b>	<b>Fingerprint SHA-256</b>	<b>Additional information</b>
11	CN = GlobalSign Timestamping Root E46, O = GlobalSign nv-sa, C = BE	24E9A5B561CDFEFEEEB73245DAC1B04465C513F936621D21902DD8A58FD6C461	Cross Sign CA
12	CN = GlobalSign, OU = GlobalSign ECC Root CA - R5, O = GlobalSign	0AED971671F8FE67EBA28817550AFEE946FDC2C52250003A6CFB87BC5AAD8A04	Cross Sign CA
13	CN = GlobalSign, OU = GlobalSign Root CA - R3, O = GlobalSign	2510E248903F01B63F9398179E5506979F0EF507E4174B657AF6F770A417EC94	Cross Sign CA
14	CN = GlobalSign Timestamping Root R45, O = GlobalSign nv-sa, C = BE	6AFBC07C724C6F75C7743392F32BF5780BD5DD39268544D4882E7AEC1ADD0282	Cross Sign CA
15	CN = GlobalSign Secure Mail Root E45, O = GlobalSign nv-sa, C = BE	5B87841E80AAFE877804E56694473DCA8BB9F1FF4FFCF885A3DAFD24463FCB64	Cross Sign CA
16	CN = GlobalSign Code Signing Root	6385DDCD1B768648267EE5122897CA085FC45D6030ECB55098F583AF152AA4A6	Cross Sign CA



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	R45, O = GlobalSign nv-sa, C = BE		
17	CN = GlobalSign, OU = GlobalSign Root CA - R6, O = GlobalSign	75BFB522CC4B58DA22EE488517C5F2EFF92576D20F595F9ACE483A036FC1BB6B	Cross Sign CA
18	CN = GlobalSign Code Signing Root E45, O = GlobalSign nv-sa, C = BE	E506B72BB97A14D24959A0D1A977E1ACDB6155D68FB4846885E544D147E7D577	Cross Sign CA
19	CN = GlobalSign Client Authentication Root E45, O = GlobalSign nv-sa, C = BE	F375270F2F216B9F62CC31795619F6FE1943DF65D1B198D3341170A40725BFC7	Cross Sign CA
20	CN = GlobalSign Secure Mail Root R45, O = GlobalSign nv-sa, C = BE	5268C94573AF66BA5A3DE979F2048DE43BD4B68AF0B73A2D639159FAFE637F69	Cross Sign CA
21	CN = GlobalSign Code Signing Root R45, O = GlobalSign nv-sa, C = BE	05E0634B1FEB98AE6B4CF101728CF9D5A1793CEACE301506FF332B22D4CF08EB	Cross Sign CA
22	CN = GlobalSign Client Authentication Root R45, O = GlobalSign nv-sa, C = BE	3DA135562E942799D547CA72EA57D7AC03791B24D4E24BA2E1E1331E8A1678F0	Cross Sign CA
23	CN = AbbVie Atlas R45 AATL CA 2022, O = AbbVie, Inc., C = US	6FD7EEFF0B14D389FC8115B4FCDF64EED38F29573F0B3969C71BEB0FE55C3F5B	
24	CN = Statoil Qualified CA, O = Statoil ASA - 923609016, C = NO, DC = statoil, DC = com	5E297C0107659C8068CC7674635E56F74D05BFD6E687D3075FC48C7E8FF70D95	Revoked on March 31, 03
25	CN = GlobalSign R45 AATL Root CA 2020, O = GlobalSign nv-sa, C = BE	B296DC3BCF451217D7AD4F84FB8EE25CC92FC659CAFA0EB4A8B5B4DB3D0215C2	

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26	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	F5E9E2705AB0C93E80652D2DEB573AB01D6700597BDA122BC08BA97FDC713368	
27	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified Authentication CA 2020, O = GMO GlobalSign Ltd, C = GB	1DBC5465732AC3232FF12641C2898EA0F239D06186DD1B085496ABC6E5BD07F2	
28	CN = EUSPA AR45 SMIME CA 2021, O = European Union Agency for the Space Programme (EUSPA), C = CZ	A2F5C0CD7364E1123B21556FB7999BEA8E9F0AEF399A3544CD12EB83C238BA1E	
29	CN = COMESA GCC R45 SMIME CA 2021, O = Common Market for Eastern and Southern Africa Secretariat, C = ZM	C50DECEFCB246CB07F4FEB282A7633337721F787F8EB68D897F05284FF94FA8A	
30	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Authentication CA 2021, O = GlobalSign nv-sa, C = BE	9BBAB193D19DBA9BA86497C633E89EB421131D29B64129B449832BEC2CC8259F	
31	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified Authentication CA 2021, O = GlobalSign nv-sa, C = BE	102DCE6691C0B6DF7CD2521AF88C3546D7582A2CB7DAAD087F9C7DB2AF8351C 5	
32	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Non QSCD Signing CA 2021, O = GlobalSign nv-sa, C = BE	96B67EB3D828223480405557E3993A3B1781D527294D1978EB0C4ABCC6F40AF2	
33	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified QSCD Signing CA 2021, O = GlobalSign nv-sa,	7A25E3C7B2B3325C5E65D01B9F6FF474ADE4BBCC8CCA3D7F29655352386F36B7	

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	C = BE		
34	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified QSCD Signing CA 2021, O = GlobalSign nv-sa, C = BE	625597092D6B09F1AB74ECF29F38E0E1C41AF487594B23489A8A604687ACAD99	
35	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified Non QSCD Signing CA 2021, O = GlobalSign nv-sa, C = BE	DBFF9EBA713FF77B60D52B37F35C5AD52D9CD06412F3BAD9128D77D95C7B887 E	
36	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified Authentication CA 2020, O = GlobalSign nv-sa, C = BE	5F2155F9A7444615C673994CDA99E963BB558A367B20305520E93D15EF3AF4E8	
37	CN = NAESB GCC R45 Client Authentication CA 2020, O = GMO GlobalSign Inc., C = US	5EBD04144508FADD1B9DB79FF62B826D6FF893987B1534C0F8EEC2261D6AC452	
38	CN = InComm Agent Solutions Inc Atlas Issuing CA 2020, O = InComm Agent Solutions Inc, C = US	4DFD9A61EB32208A94F15719FF2EC71449BCB0F344C18D5D1D3994A6C30EC92E	
39	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified Authentication CA 2020, O = GMO GlobalSign Ltd, C = GB	EEE8A6FBDE0B1340552AE739832A686FE96103435AE1FCE9392D655E00D8670D	
40	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified Authentication CA 2020, O = GlobalSign nv-sa, C = BE	E042DA36AA8B9A290A525B63AFBBD42E3DBA8286F7100C7981799C6EF2F8919C	
41	CN = GlobalSign GCC R45 PersonalSign 3 CA 2020, O = GlobalSign nv-sa, C = BE	50161C1232F32E8057879F9C7651A9088F5AA1EF5AC9A9A4BD445C6E788EA6F8	

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42	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	28CB8EE23E7BDBBF40B2959A57BB589991C2635CD3B71AAB0E84F993C559D29F	
43	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified QSCD Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	712C42F3C0FA3BDF A11B22AC9811C8EB912C4B464B43C705825DEEDC1195AD33	
44	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified Signing CA 2020, O = GlobalSign nv-sa, C = BE	35E9429CDE680D8D5311CDD46FAEF0AEE694B0556C3D69C4F670E243D64C87FE	
45	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified QSCD Signing CA 2020, O = GlobalSign nv-sa, C = BE	8115E2CB4F04E56EA70EA932D0622831DD53B22BF6A93B3ACD9125FAB0374AF1	
46	CN = GlobalSign E45 AATL Root CA 2020, O = GlobalSign nv-sa, C = BE	87903E20623512D28BDBFACE4D41BD50F5BA6B1B2E8CCAB134CE161769EAE00	
47	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas E45 UK Qualified Remote Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	B89EBBFC57AE60653C676B8EB399DC9415BBB738CB0370651A86BFF075C83A39	
48	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified Remote Signing CA 2020, O = GlobalSign nv-sa, C = BE	5CB0FDEF052BD18A0A40ADA2235F46EB42B6D0993ED5A50DE47E3EA12FF191B1	
49	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified QSCD Signing CA 2020, O = GMO GlobalSign Ltd,	91F881C556A920B92C4C48221FAAC19615437CF4ACB7D079C0B426BF3483B3AE	

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	C = GB		
50	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified Signing CA 2020, O = GlobalSign nv-sa, C = BE	4E1474CFEB41D048C7E1E2C975D69AD3FD739BD44577A80D0432F233D51C5C77	
51	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified QSCD Signing CA 2020, O = GlobalSign nv-sa, C = BE	1B728D4A76506634A11007912F1D8C6B9AA39BE1AFCA49096657CF1FFB4513BF	
52	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas R45 UK Qualified Remote Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	0958E7A84F392A4F3B7DC5E30FDC8DF733E69B44C68C16FC0DA1741C08419DA0	
53	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Remote Signing CA 2020, O = GlobalSign nv-sa, C = BE	323F35F0DFB01D6B478C24026C66852AAD3E96DCB1C5BE17C1DA1EC47D77CC8 7	
54	CN = GlobalSign GCC R45 AATL CA 2020, O = GlobalSign nv-sa, C = BE	BCF8D9040635C95E84F9FEDDF36F9422C0D215C23798E9C2D5F3798ECF27B68A	
55	CN = GlobalSign Atlas R45 AATL CA 2020, O = GlobalSign nv-sa, C = BE	65573E11BB13C6ED115E0B90E2C30B1E4DE4D5CAC1B31EAB2D417C32A3DA5D7 9	
56	CN = European GNSS Agency Atlas R45 SMIME CA 2021, O = European GNSS Agency (GSA), C = CZ	F4EFE27C6B037747B3A89E23EE23C1B70A24DEB53B2E02F423BB0F73E1822267	
57	CN = GlobalSign Primary SHA256 CA for Adobe, OU = GlobalSign CDS, O = GlobalSign nv-sa, C = BE	8B8AAA67E1EB067303F09E17A505CE7B6CA1C8DC0E1DB59D982B579C69D644E1	

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58	CN = Statoil Qualified CA, O = Equinor ASA, C = NO, DC = statoil, DC = com	0A665640BE77300E0DF23752F324499E132A99A7E5A81879AA9E58B65F501C97	Revoked on March 31, 03
59	CN = EY LLP GCC R3 SMIME CA 2020, O = Ernst Young LLP, C = GB	3A093122808FFFA440E19824D0BC7CD6B01D8D8277F7F42FA16E80A0205D4A7A	
60	CN = RWE Atlas R45 SMIME CA 2020, O = RWE AG, C = DE	BEE8FB99D7B9EC0CAEF1B1A6ACFFEABD777E31CBAC2D0E1846BDAEC4D5B18 BE8	
61	CN = GROB-WERKE GmbH und Co. KG GCC R3 SMIME CA 2020, O = GROB-WERKE GmbH und Co. KG, C = DE	B75840FEA15C545335CD4BA58B707F53524CE984655AEBCC248A57E6F2403A8B	
62	CN = HERTZ GCC R45 SMIME CA 2020, O = The HERTZ Corporation, C = US	013C13426B92F703BA573D9E16C2E35AECA26C60F606B88D3CE2150C94D56C14	
63	CN = GlobalSign Atlas R3 SMIME CA 2020, O = GlobalSign nv-sa, C = BE	479D6A0980722966237F06C41842EE796B55D4D00A0D663B785D48433A29156E	
64	CN = Accenture Federal Services GCC R3 Global CA 2020, O = Accenture Federal Services LLC, C = US	9D61B40ECFE094B415FBF6AEEA1FDB27A1A4C3B6FD9008D768777D6D7FBAAEE 9	
65	CN = GlobalSign ECC HV S/MIME CA 1, O = GlobalSign nv-sa, C = BE	E0CE5C4EF5D2186963D2B04ADE4612BBAF787E16048A5B468F7367776C3A03DE	
66	CN = GlobalSign Corporate IT Atlas R45 SMIME CA 2021, O = GlobalSign nv-sa, C = BE	7C4E78C74B4818D17EF8B8AB91E32DB4F7E3CE84A0C5E47AAA62AE39FAB60D0 1	
67	CN = CBMM GCC R3 SMIME CA 2020,	F6F9C3FC5636C7E800EB1BDDFD33AAF98495C130DBF48F9BAF4AB7A1F665DFB	

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	O = COMPANHIA BRASILEIRA DE METALURGIA E MINERACAO, C = BR	4	
68	CN = DPDHL User CA I5, O = Deutsche Post AG, C = DE	163B5F69720164075C16CE760A93C85D5073CD5A0D41C7A3AFB0B5E75B3DC646	
69	CN = GlobalSign Atlas R6 AATL CA 2020, O = GlobalSign nv-sa, C = BE	96D0E059827A7C99BA5CF586D1B77397A3C83777C467BF1914762AE16ABE3834	
70	CN = AbbVie Atlas R6 AATL ICA 2020, O = AbbVie, Inc., C = US	6509F94BCA4DC619F3E732D533ACD3D0F10ABA102A13123B6AF737C8E12DAA21	
71	CN = Trusted Root nonTLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	3A30D4A3043F195609E30F747754699CC6CC97E1F5FCB83DE87E659E579E39AD	
72	CN = DSigner GCC R3 SMIME CA 2020, O = DSIGNER, SOCIEDAD AN\C3\93NIMA, C = GT	3FA4A9B65FDF6876FE668DFECC434932EBC254FD741119FC432A5989A085F320	
73	CN = Hyperion GCC R3 SMIME CA 2020, O = Hyperion Services Ltd., C = GB	9537738522B6A87FCF8338CF270203CCF1A7770BB14BB23FA2882A05FFB804E4	
74	CN = GlobalSign GCC R3 PersonalSign 2 CA 2020, O = GlobalSign nv-sa, C = BE	F0DBB9E90E6643CCB23660147E5DE24760440089D96F4AD0D82F66C3E7DA5C20	
75	CN = JCAN Public CA1 - G4, OU = JCAN Public CA1 - G4, O = JIPDEC, C = JP	9AC4C8E358C095C998122ADD17A336C0AC597ECBECB7EDC3F58A75040CF94A5 F	
76	CN = CRB Group GCC R3 SMIME CA 2020, O = CRB Group, Inc., C = US	814179F36A71529C915C540261E44638E37A4FCE879740F0CE7351A8E9291A03	

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77	CN=Quáalitas Compañía de Seguros S.A. de C.V. GCC R3 CA 2020; O=Quáalitas Compañía de Seguros S.A. de C.V.; C=MX	795A8468D098E3729E6A17920AA6D8F27E84DC180F85C9B28A77FB368DCC7895	
78	CN = GlobalSign GCC R6 AATL CA 2020, O = GlobalSign nv-sa, C = BE	75CC6021036890EAC71853FAE8382CF8DB33DC41706F42AAFE421E98AD38174C	
79	CN = GlobalSign GCC R3 PersonalSign 1 CA 2020, O = GlobalSign nv-sa, C = BE	583C7FC250856B7F947FC7CC076FE216273CA1713D122C2E5D8F6038FD6E3562	
80	CN = Giesecke and Devrient CA, OU = Corporate CA, O = Giesecke and Devrient, L = Munich, C = DE	4AB23AF5233FD65FBD981973515A7379C76B9B852A5B4E35890B7F60D1923A4F	Revoked on March 31, 03
81	CN = FIFCO Atlas R45 SMIME CA 2020, O = FIFCO, C = CR	80642AAC7C782BCDB0C3F6F385488F9BE3BB2DE30B863009E74B29F026C9EAE6	
82	CN = Trafigura PTE Ltd Atlas R45 SMIME CA 2020, O = Trafigura PTE Ltd, C = SG	36FCE16CC976727765DF5E9FADB12C544D704C35150D1F17DDE1A42A85B88BE4	
83	CN = Spirit AeroSystems GCC R45 SMIME CA 2020, O = Spirit AeroSystems, Inc., C = US	90D87E23B012A357851472CE9F4E49201F67BA9EC1FB9CD236C0C5AAA15FFE9E	
84	CN = LinQuest GCC R3 SMIME CA 2020, O = LinQuest Corporation, C = US	DDD73ABF0259F18F77CA598C2745EA18243526B10D371D7E3B088D68C88C0A97	
85	CN = DexKo Global GCC R3 SMIME CA 2020, O = DexKo Global Inc., C = US	D531F24E655D1F28A344BD3E0E9B141CE88A4139C61CB0CF5184EF2E2B9531A7	
86	2.5.4.97 = NTRBE-0459134256,	AD304215A70BF5D06E84973BF49862F10CFF490DA9C97D1D6FA6934F8E3C98AF	

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	CN = GlobalSign Atlas R45 Remote QSCD Delegated RA CA 2022, O = GlobalSign nv-sa, C = BE		
87	CN = Ford Motor Company - Enterprise Issuing CA01, ST = Michigan, L = Dearborn, O = Ford Motor Company, C = US	7B96DA88C60AE48624F480217865FEB124719022F49E58EE830B3E93D36D9AEF	
88	CN = InComm Agent Solutions Inc Root Certificate Authority, O = InComm Agent Solutions Inc, ST = Florida, C = US	ECF5DC23556585AE8F9CE5BA0955F982AFF77E975F84C53F4A098626C20BFE5A	
89	CN = Giesecke and Devrient CA, OU = Corporate CA, O = Giesecke and Devrient, L = Munich, C = DE	A53FB60B6C9CEC1175C729BB8A34D1AA1DA85AF234E41603621D983940026400	

**Timestamp CA**

#	Subject	Fingerprint SHA-256	Additional information
90	CN = GlobalSign E46 AATL TimeStamping Root CA 2021, O = GlobalSign nv-sa, C = BE	2A34A0225DBC82845E8C5F2F13897179A9B2D91E74D93BDE0021F4F89804E59F	
91	CN = GlobalSign R45 AATL TimeStamping Root CA 2021, O = GlobalSign nv-sa, C = BE	3A6224E6EF98D0C4770C229E89CFA346623DF5A250D4B68D04CD5DA4BD85C4C E	
92	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas R45 UK Qualified Timestamping CA 2020, O = GMO GlobalSign Ltd, C = GB	4C03F2D6941F2DFCA27EDC599F385E6CD3FFD0CC842F2CCB95B77580A2D1FF9 3	
93	2.5.4.97 = NTRBE-0459134256,	D86E6264D58E4CA78AF419740D8186EA8EC48F0C33B4B4D7CA027931D627B1C8	

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	CN = GlobalSign Atlas R45 Qualified Timestamping CA 2020, O = GlobalSign nv-sa, C = BE		
94	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas ECCR5 UK Qualified Timestamping CA 2020, O = GMO GlobalSign Ltd, C = GB	40382F8827B75D25705A6B3DA32533C5F4218BD7FA697CB0B300E8F47047FBC9	
95	CN = GlobalSign CA for AATL - SHA256 - G3, O = GlobalSign nv-sa, C = BE	2E8820DC0EAF4E3D6D285C057ECE14470B377438B002CEDD4C72B4F343A54F43	
96	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas ECCR5 Qualified Timestamping CA 2020, O = GlobalSign nv-sa, C = BE	E55A4FE881A4B0433674EC0E5CC261A99CCE3FEF649528C7218085BEDCD11512	
97	CN = GlobalSign Qualified Time Stamping CA 2019, O = GlobalSign nv-sa, C = BE	74ABE5E5CCEB75491FF72C4CF325405D8ADBFE390E189CF430BA60E62798878E	
98	CN = GlobalSign Timestamping CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	BE33D1C57EBDDD927B57BDB604BE457B552FE568E7F3DCBA093C39ED1C30A239	
99	CN = GlobalSign Timestamping CA - G3, O = GlobalSign nv-sa, C = BE	95C6A747DD0BC755A1941827E894B8083592241B792541E2EB1B30FB9B13F57F	

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

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## Appendix C – Locations

<b>Location Identifier</b>	<b>Country</b>	<b>State / Province</b>
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

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