

INDEPENDENT ASSURANCE REPORT

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

Scope

We have been engaged, in a reasonable assurance engagement, to report on GlobalSign management's assertion that for its Certification Authority (CA) operations at its locations as detailed in [Appendix C](#), throughout the period April 1, 2022 to March 31, 2023 for its CAs as enumerated in [Appendix B](#), GlobalSign has:

- ▶ disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in the applicable versions of its Certification Practice Statements and Certificate Policies as enumerated in [Appendix A](#)
- ▶ maintained effective controls to provide reasonable assurance that:
 - GlobalSign's Certification Practice Statements are consistent with its Certificate Policies
 - GlobalSign provides its services in accordance with its Certificate Policies and Certification Practice Statements
- ▶ maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and certificates it manages is established and protected throughout their lifecycles;
 - the integrity of subscriber keys and certificates it manages is established and protected throughout their lifecycles;
 - subscriber information is properly authenticated (for the registration activities performed by GlobalSign); and
 - subordinate CA certificate requests are accurate, authenticated, and approved
- ▶ maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorized individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity

in accordance with [WebTrust Principles and Criteria for Certification Authorities, Version 2.2.2.](#)

GlobalSign does not escrow its CA keys. Accordingly, our procedures did not extend to controls that would address those criteria.

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 [WebTrust Principles and Criteria for Certification Authorities, Version 2.2.2.](#)

Our independence and quality management

We have complied with the independence and other ethical requirements of the *Code of Ethics for Professional Accountants* issued by the International Ethics Standards Board for Accountants, which is

founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

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

Practitioner's responsibilities

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

1. obtaining an understanding of GlobalSign's key and certificate lifecycle management business practices and its controls over key and certificate integrity, over the authenticity and confidentiality of subscriber and relying party information, over the continuity of key and certificate lifecycle management operations and over development, maintenance and operation of systems integrity;
2. selectively testing transactions executed in accordance with disclosed key and certificate lifecycle management business 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.

Opinion

In our opinion, throughout the period April 1, 2022 to March 31, 2023, GlobalSign management's assertion, as referred to above, is fairly stated, in all material respects, in accordance with [WebTrust Principles and Criteria for Certification Authorities, Version 2.2.2](#).

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, Version 2.2.2](#), nor the suitability of any of GlobalSign's services for any customer's intended purpose.

Use of the WebTrust seal

GlobalSign's use of the WebTrust for Certification Authorities Seal constitutes a symbolic representation of the contents of this report and it is not intended, nor should it be construed, to update this report or provide any additional assurance.

EY Bedrijfsrevisoren BV
Diegem, Belgium

Christel Weymeersch, Partner*

June 28, 2023

* Acting on behalf of a BV



Appendix A - Certification Practice Statements and Certificate Policies in Scope

Certification Practice Statement	Begin Effective Date	End Effective Date
Version 9.10	March 15, 2022	August 30, 2022
Version 9.11	August 30, 2022	March 28, 2023
Version 10.0	March 28, 2023	

Certificate Policy	Begin Effective Date	End Effective Date
Version 6.10	March 15, 2022	August 30, 2022
Version 6.11	August 30, 2022	March 28, 2023
Version 7.0	March 28, 2023	



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Appendix B - In-Scope CAs

The column "Issuance during the period?" indicates whether the CAs have issued end-entity certificates during the period April 1, 2022 to March 31, 2023.

Root CA				
#	Subject	Fingerprint SHA-256	Issuance during the period?	Additional information
1	CN = GlobalSign Root CA, OU = Root CA, O = GlobalSign nv-sa, C = BE	EBD41040E4BB3EC742C9E381D31EF2A41A48B6685C96E7CEF3C1DF6CD4331C99	No	
2	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	CBB522D7B7F127AD6A0113865BDF1CD4102E7D0759AF635A7CF4720DC963C53B	No	
3	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	179FBC148A3DD00FD24EA13458CC43BFA7F59C8182D783A513F6EBEC100C8924	No	
4	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	2CABEAFE37D06CA22ABA7391C0033D25982952C453647349763A3AB5AD6CCF69	No	
5	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	4FA3126D8D3A11D1C4855A4F807CBAD6CF919D3A5A88B03BEA2C6372D93C40C9	No	
6	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	CBB9C44D84B8043E1050EA31A69F514955D7BFD2E2C6B49301019AD61D9F5058	No	
7	CN = GlobalSign Secure Mail Root R45, O = GlobalSign nv-sa, C = BE	319AF0A7729E6F89269C131EA6A3A16FCD86389FDCAB3C47A4A675C161A3F974	No	
8	CN = GlobalSign Secure Mail Root E45, O = GlobalSign nv-sa, C = BE	5CBF6FB81FD417EA4128CD6F8172A3C9402094F74AB2ED3A06B4405D04F30B19	No	
9	CN = GlobalSign Code Signing Root R45, O = GlobalSign nv-sa, C = BE	7B9D553E1C92CB6E8803E137F4F287D4363757F5D44B37D52F9FCA22FB97DF86	No	
10	CN = GlobalSign Code Signing Root E45,	26C6C5FD4928FD57A8A4C5724FDD279745869C60C338E262FFE901C31BD1DB2B	No	



	O = GlobalSign nv-sa, C = BE			
11	CN = GlobalSign Document Signing Root R45, O = GlobalSign nv-sa, C = BE	38BE6C7EEB4547D82B9287F243AF32A9DEEB5DC5C9A87A0056F938D91B456A5A	No	
12	CN = GlobalSign Document Signing Root E45, O = GlobalSign nv-sa, C = BE	F86973BDD0514735E10C1190D0345BF89C77E1C4ADB3F65963B803FD3C9E1FF	No	
13	CN = GlobalSign IoT Root R60, O = GlobalSign nv-sa, C = BE	36E80B78775DDA9D0BAC964AC29D5A5EC4F3684E0C74445E954A191C2939B8E0	No	
14	CN = GlobalSign IoT Root E60, O = GlobalSign nv-sa, C = BE	43ED443C1F0CD46C9914B4272C24DC42CF6FE62B4AAB37585878A26D882AE4CB	No	
15	CN = GlobalSign Timestamping Root R45, O = GlobalSign nv-sa, C = BE	2BCBBFD66282C680491C8CD7735FDBBAB7A8079B127BEC60C535976834399AF7	No	
16	CN = GlobalSign Client Authentication Root R45, O = GlobalSign nv-sa, C = BE	165C7E810BD37C1D57CE9849ACCD500E5CB01EEA37DC550DB07E598AAD2474A8	No	
17	CN = GlobalSign Client Authentication Root E45, O = GlobalSign nv-sa, C = BE	8B0F0FAA2C00FE0532A8A54E7BC5FD139C1922C4F10F0B16E10FB8BE1A634964	No	
18	CN = GlobalSign Timestamping Root E46, O = GlobalSign nv-sa, C = BE	4774674B94B78F5CCBEF89FDDEBDABBD894A71B55576B8CC5E6876BA3EAB4538	No	

DV TLS Issuing CA				
#	Subject	Fingerprint SHA-256	Issuance during the period?	Additional information
19	CN = GlobalSign Atlas R3 AlphaSSL CA 2023 Q2, O = GlobalSign nv-sa, C = BE	8FF94F390EF3D4B472C53399E25D8CA74636F68264F456FF5F111CD8CB9C0FD8	No	
20	CN = GlobalSign Atlas ECCR5 DV TLS	86E5811AF6678C23FE7133CC92A27E93CFB85682BE0C2954575E7A4D062	No	



	CA 2023 Q2, O = GlobalSign nv-sa, C = BE	85598		
21	CN = GlobalSign Atlas R3 DV TLS CA 2023 Q2, O = GlobalSign nv-sa, C = BE	FA41F99D084E19438144D4FA7457C89ABA1BBA150BFB9DC4BF9D4D73E6623C6F	No	
22	CN = GlobalSign Atlas ECCR5 DV ACME CA 2023 Q2, O = GlobalSign nv-sa, C = BE	F5CA53D8790D2AC5E1275D2E10DD914A924F2004951144FB8C73556163A2652E	No	
23	CN = GlobalSign Atlas R3 DV ACME CA 2023 Q2, O = GlobalSign nv-sa, C = BE	771CAE51FDB06185F011B768F6469918854E9EFC5992D626399F8AEF3FC10DB3	No	
24	CN = AlphaSSL CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	7C4E90207B2B7CAEC080426CC469908CB27B925EE3B1C999C22B8568812FDA8C	Yes	
25	CN = GlobalSign Atlas R3 AlphaSSL CA 2023 Q1, O = GlobalSign nv-sa, C = BE	D2DC5AADD24B42C8E2CFDE756AF6B7A43CCAEBF75B9BD29AEE7C28CDE8CF1B4	Yes	
26	CN = GlobalSign Atlas ECCR5 DV TLS CA 2023 Q1, O = GlobalSign nv-sa, C = BE	4C41707D884D7E7D3FDE3DF7C24C7FF6E46F9166651D82C3DA7C4798D7A0824F	No	
27	CN = GlobalSign Atlas R3 DV TLS CA 2023 Q1, O = GlobalSign nv-sa, C = BE	7EC4FDED077CDD799A439637FC88AAC9546A7B1AE9F4DB0AD71ACCB752E7E89	Yes	
28	CN = GlobalSign Atlas ECCR5 DV ACME CA 2023 Q1, O = GlobalSign nv-sa, C = BE	8CFDFAE1C0606B8E381AE6A2D4AFD1E50CEA63B652C2CB7314561D3353183369	No	
29	CN = GlobalSign Atlas R3 DV ACME CA 2023 Q1, O = GlobalSign nv-sa, C = BE	71D7D6011C10185939C69087DFD44E5AC28DA5A20EA77E650BF983E4DFB99D1C	Yes	
30	CN = GlobalSign GCC R3 AlphaSSL CA 2022, O = GlobalSign nv-sa, C = BE	CAC12CEBBCCD240269AF886C3C5EC64622881D676C625FCB7D144DCB3552EBC7	No	
31	CN = GlobalSign Atlas R3 AlphaSSL CA	8146EAB73A6237D9F0668BA9C8BB4226E8257A54FAC41DB9626EA4F567	Yes	



	2022 Q4, O = Globalsign nv-sa, C = BE	ED4D1A		
32	CN = GlobalSign Atlas ECCR5 DV TLS CA 2022 Q4, O = GlobalSign nv-sa, C = BE	710DE4D226429E1657C15042B3F404DE5BF6DEBFE00F77DFD671AEC67A374E48	No	
33	CN = GlobalSign Atlas R3 DV TLS CA 2022 Q4, O = GlobalSign nv-sa, C = BE	93AC271C0758A263A603567CDB6517D8FDEA13882154E0C41A75137C5613A222	Yes	
34	CN = GlobalSign Atlas ECCR5 DV ACME CA 2022 Q4, O = GlobalSign nv-sa, C = BE	649BFB0BAA0E25655EDB410B6B6E073D5670E00CB76F390BD97EB26ACC0AA44A	No	
35	CN = GlobalSign Atlas R3 DV ACME CA 2022 Q4, O = GlobalSign nv-sa, C = BE	5CB88E6EFF315E275745B3C7288064A56142AB3EF9AC7067F1BB3D298FBAEF95	Yes	
36	CN = GlobalSign Atlas R3 AlphaSSL CA 2022 Q3, O = Globalsign nv-sa, C = BE	89578D72697AC25ABC6F6D382387443965412AC7448F103C9B1D11AB63A555CD	Yes	
37	CN = GlobalSign Atlas ECCR5 DV TLS CA 2022 Q3, O = GlobalSign nv-sa, C = BE	E6C18D6D008C712B3017DE1AE7659418983254B01DE4895AE91F3B29FF482417	No	
38	CN = GlobalSign Atlas R3 DV TLS CA 2022 Q3, O = GlobalSign nv-sa, C = BE	12DCFF9B60269E3B546C3FFB7E74BA58EB7EEBCBF5956771F784F7A582C2EA7A	Yes	
39	CN = GlobalSign Atlas ECCR5 DV ACME CA 2022 Q3, O = GlobalSign nv-sa, C = BE	A8B2A4518A82A0CC0A60B2FB88B946557ADB4FA58458EC7680A77BB0E5334D8D	No	
40	CN = GlobalSign Atlas R3 DV ACME CA 2022 Q3, O = GlobalSign nv-sa, C = BE	EB5E6C1AE30A0F9B8C5769105BA9D6882E4ACCB4A5E2F2F72AC388A2FACA0FEF3	Yes	
41	CN = GlobalSign Atlas R3 AlphaSSL CA 2022 Q2, O = Globalsign nv-sa, C = BE	45F1854530EC037AAACB4B2DE9B4D0FDBFC61888ABD4EE0414183D99E60437AC	Yes	



42	CN = GlobalSign Atlas ECCR5 DV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	15B63CDD772A8D42DC5E48174C1F7E3D40FC82C478DF3A6443C7BD92FB C6D5DE	No	
43	CN = GlobalSign Atlas R3 DV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	735CC386EC1A82E657A5B451C94959611D3C7D0CBB1FD9D9EDB42C7192 F8463A	Yes	
44	CN = GlobalSign Atlas ECCR5 DV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	7B063A9CD48767C475AA6BCED4667CDC56068F8B7B895125BC4EB24682 EEB606	No	
45	CN = GlobalSign Atlas R3 DV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	2DFE47E144ABB39F9FE451CECD352D9A9BD28982351E8B6524FEB101DBA B1FEC	Yes	
46	CN = GlobalSign Atlas R3 AlphaSSL CA 2022 Q1, O = Globalsign nv-sa, C = BE	A04FA69E84CCD44F5E526B558631E346B21417D4D1B606A08CADE3928D BF1158	Yes	
47	CN = GlobalSign Atlas R3 DV ACME CA 2022 Q1, O = GlobalSign nv-sa, C = BE	92651CD48A0288AA3075354DDC15DC24D0AF8EE67015B68A145970A093 475E19	Yes	
48	CN = Alibaba Cloud GCC R3 DV TLS CA 2021, O = Alibaba Cloud Computing Co., Ltd., C = CN	8F3E5D6858B927D284FDB85A1B15875CD78E63B820C20DDC539CCD84B0 C1A6AA	No	
49	CN = Alibaba Cloud GCC R3 AlphaSSL CA 2021, O = Alibaba Cloud Computing Co., Ltd., C = CN	7AEDE5374ECA9FF34C5727C10DB982222D753157797449B88364F70EEFA 0C24C	No	
50	CN = GlobalSign Atlas ECCR5 DV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	727A9069A3C60D213584E616D5BF55DFD19C71A3976645EA6A73B18F83 760D24	No	
51	CN = GlobalSign Atlas R3 DV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	D9E4A803FB498EEE9379FCF90AC3067AE65D098CC77890C37E575E249CD 7D7C9	Yes	
52	CN = GlobalSign Atlas ECCR5 DV ACME CA 2022 Q1, O = GlobalSign nv-sa,	A262F7D653E6C745EEABEBF6672A756B501A82F06708F2B5E7791621703 7BBCA	No	



	C = BE			
53	CN = TK Elevator Atlas R6 DV CA 2021, O = TK Elevator GmbH, C = DE	988D6B2D87BAF43821C4D304BE2B0E8F325DC17B7A220E934F5C5B7BADFF8E1C	Yes	
54	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	EE793643199474ED60EFD8CCDE4D37445921683593AA751BBF8EE491A391E97	Yes	
55	CN = GlobalSign Atlas R3 DV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	1DD095449FFB3CFF14B2224D596B83FD42F2B47683553C797D11150C918691BD	Yes	
56	CN = GlobalSign Atlas R3 DV ACME CA H2 2021, O = GlobalSign nv-sa, C = BE	B254F3CDEAF1D29AB53CB439E80FB996F1E90A283E9B5085B8749D18E4F5987B	No	
57	CN = GlobalSign Atlas R3 AlphaSSL CA H2 2021, O = Globalsign nv-sa, C = BE	11B6DB5B68DCDF34479AE7E7B7BBAA7165905577AD83D474F2BB9717CE244CEA	Yes	
58	CN = GlobalSign Atlas ECCR5 DV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	6916DA916EE1B1E98CB31EE94730EECD7F2C077965BDB8D4E16A3B81C58A29B6	No	
59	CN = GlobalSign Atlas ECCR5 DV ACME CA H2 2021, O = GlobalSign nv-sa, C = BE	61B30CEAEA0C8C6397C3599829809CB73CA8F817BB9CDF000D7453E442438028	No	
60	CN = CUISEC GCC R3 TLS DV CA 2021, O = 联通智慧安全科技有限公司, C = CN	692FE1B8BA2699531DE4CD2F52AE38FA119AB01F4B31AB78FE6DB3FDF03A7031	Yes	
61	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	BFDF4CF3F143AD0DB912D8AB3A7C12F617B9EA60CE8B1F4E44F74270FB21B19B	Yes	
62	CN = GlobalSign Atlas R3 DV ACME CA H1 2021, O = GlobalSign nv-sa, C = BE	70F5C63C4F112837AB99870B0ECB5D722EEA0B0D0DB9320B98B99B9BD137866	No	
63	CN = GlobalSign Atlas ECCR5 DV ACME CA H1 2021, O = GlobalSign nv-sa,	E7757BB0C4942ADC108D092A17B812B1043E06A094DD5E214920325556FC6924	No	



64	C = BE CN = GlobalSign Atlas R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	B65FE6A1BF2D52FF68B7D3E9D0F06B300A1C3F248309B70405CA7BDEC054BDDD	No	
65	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	8C2410F76B149CA062B420AB611B6BF0A06E6E799A29587E4D4EC16D0537B7EA	Yes	
66	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	37D080A5E9A526663E56EE20DE4BD9F7952DACC341491439080167AD5DD18CAC	Yes	
67	CN = Valid Certificadora Digital SSL DV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	FCF26FBC1B2A25A76AB4EA92B2CBEF367E0131091C802DA49898F78AE54B30F8	Yes	
68	CN = Valid Certificadora Digital AlphaSSL CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	04DE47A9CDD3091CFC5EF6AAA3B7D4B53E13C4D4DC02364F6C0B408742EC3C76	Yes	
69	CN = Soluti CA - DV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	5C452334D9C9C9A2EA42CC77A7165E1795EE9D84EB70CB784B47EA9D92A582D9	Yes	
70	CN = GlobalSign Domain Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	09BC1B137C031239EF788673E94EB17F5F3ECAB07D3ADBFB485E75ABFAAF3B9A	Yes	
71	CN = GlobalSign GCC R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	762538439509C411C437D3C567563E1378671281FC4A1464ADD031870843676E	Yes	
72	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	5A817EADA4AD78734EBB2CF674352D97F4352290C40EAF10E764B1EAC075B0E6	Yes	
73	CN = VTB BANK GCC R6 DV CA 2021, O = VTB BANK (PJSC), C = RU	95BA96F72CB314ECD05CE0FD75D886381A368C8F5869F04BDD3024893F4E393B	No	Revoked on April 06, 2022
74	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	6F335DD7CD4AAA1D9140F290E9E7B3498A7CC35A244AA300E146BA2D9D02B960	No	
75	CN = GlobalSign Atlas R3 DV TLS CA	59F5FF92B608A0119FF1DD7C603E0EB16F4FEAD9D4717AC3BC62D286AE3	No	



	2020-12, O = GlobalSign nv-sa, C = BE	99CDA		
76	CN = AlphaSSL CA - SHA256 - G2, O = AlphaSSL	933E4A2D8DB1FF9FF0E508EA7F1637E074F660FE6F365A2233DFC2B52C889D98	No	
77	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	669E7727A92BE72D9718E16922DC1BC1492B1AF33FA4793E68D8778F19A2EBE0	Yes	

OV TLS Issuing CA				
#	Subject	Fingerprint SHA-256	Issuance during the period?	Additional information
78	CN = GlobalSign Atlas ECCR5 OV TLS CA 2023 Q2, O = GlobalSign nv-sa, C = BE	7CFB624140EFD55D44A324D10721CAF48DC64755DB6D11920F8D2B512F7EB70F	No	
79	CN = GlobalSign Atlas R3 OV TLS CA 2023 Q2, O = GlobalSign nv-sa, C = BE	EBA6880A6D960A2692A05AA539EF1C8EC03B3C455308DEE5A0F6A4DC050EDEA3	No	
80	CN = GlobalSign Atlas ECCR5 OV ACME CA 2023 Q2, O = GlobalSign nv-sa, C = BE	6564BF50F3520375B11F2A5BD432BB44E810ADC7EB2C4AD22F9CBE0C32B46162	No	
81	CN = GlobalSign Atlas R3 OV ACME CA 2023 Q2, O = GlobalSign nv-sa, C = BE	2127DBB280A2B296039D17E2E642EB9346C33990AB4298A664ADCA002FF67FFD	No	
82	CN = GlobalSign Atlas ECCR5 OV TLS CA 2023 Q1, O = GlobalSign nv-sa, C = BE	BA2F574809F5FD3638F15A7E42DB3B465C8D66297B26451457F1633B7F762F35	Yes	
83	CN = GlobalSign Atlas R3 OV TLS CA 2023 Q1, O = GlobalSign nv-sa, C = BE	D413C51E43C6880D9F39A295C496D8B50B1F6A446363A7C1AFACA9B510E5C300	Yes	
84	CN = GlobalSign Atlas ECCR5 OV ACME CA 2023 Q1, O = GlobalSign nv-sa, C = BE	4D048713242889EFF7F69C21359C6A9F211DD52C19E9BF3EAF3FCF5C8D178ACB	No	



85	CN = GlobalSign Atlas R3 OV ACME CA 2023 Q1, O = GlobalSign nv-sa, C = BE	B22FF48B90A07C0AE65DD09AB80DD44AEF1912421DFFB7301583C24DCB637692	Yes	
86	CN = GlobalSign Atlas ECCR5 OV TLS CA 2022 Q4, O = GlobalSign nv-sa, C = BE	D54CD0DADA36808945D1E4E414322E00AB09B9A800DA32D6C2B34B2CA12B9CEA	Yes	
87	CN = GlobalSign Atlas R3 OV TLS CA 2022 Q4, O = GlobalSign nv-sa, C = BE	B7DD3E11DB6F04EF6BD1E98768C6805CCCCD1D37F8BD858B6D21645797147784	Yes	
88	CN = GlobalSign Atlas ECCR5 OV ACME CA 2022 Q4, O = GlobalSign nv-sa, C = BE	C7AC7C5B8162E0F0931D1B2F7740C2284FF1595C10E82DB1EE3A1258F0A7406F	No	
89	CN = GlobalSign Atlas R3 OV ACME CA 2022 Q4, O = GlobalSign nv-sa, C = BE	FA6331BA628DF599BEB2243BDE3A15098587704E956FE50A7933ABC0FCF79EF7	No	
90	CN = Prodrive Technologies GCC R3 OV TLS CA 2022, O = Prodrive Technologies B.V., C = NL	1005370ED276B0CEF39244E9E699CE4807BF9ADE05BFA59F263809FB4606B72C	Yes	
91	CN = GlobalSign Atlas ECCR5 OV TLS CA 2022 Q3, O = GlobalSign nv-sa, C = BE	E68C3376F010219CCA14E337F33183EF9D861E573A9D76287F3AAAD4D04FA38F	Yes	
92	CN = GlobalSign Atlas R3 OV TLS CA 2022 Q3, O = GlobalSign nv-sa, C = BE	29E93053769D4D1BAB841B8F5C2603BED5E0B82F339670869566892146E89141	Yes	
93	CN = GlobalSign Atlas ECCR5 OV ACME CA 2022 Q3, O = GlobalSign nv-sa, C = BE	E4C2D8C6E54ECE1C996A305972B1AE0B064F105BE06CFD7295FD2DAE33B97E1A	No	
94	CN = GlobalSign Atlas R3 OV ACME CA 2022 Q3, O = GlobalSign nv-sa, C = BE	F06E2C3D05AF608C7BACB6366F7A47A017ADEC22F712BD417335396CB8B555BE	No	
95	CN = GlobalSign Atlas ECCR5 OV TLS CA 2022 Q2, O = GlobalSign nv-sa,	A816AFF7746EA0F0A0A064C0432F9D2B7D0CE79EC2D1E9940F4A186A25182284	Yes	



96	C = BE CN = GlobalSign Atlas R3 OV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	AFDB3C396D85D19FBE58206DF0659EAE614C4AB18F5CCF20B783AAF0BBE96A03	Yes	
97	CN = GlobalSign Atlas ECCR5 OV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	CB2C685CB214DCD2F2CDA6E2C155AAF21A7E134BC0BCE808B1130C459125B0A4	No	
98	CN = GlobalSign Atlas R3 OV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	D50B20ADFF959BFBE83B6FD1FAB36FDE7941B960CFC6839AAC63B9FFDB46413	No	
99	CN = GlobalSign Atlas ECCR5 OV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	F9D3214AD6F5D6D2B3C8161F96028B76812B058614A66786B92C8FEBDA C020EE	Yes	
100	CN = GlobalSign Atlas R3 OV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	536A35A3FA630379CF3B4D4B4E1395AF9CFED2243138E634E4369A31E2872843	Yes	
101	CN = GlobalSign Atlas ECCR5 OV ACME CA 2022 Q1, O = GlobalSign nv-sa, C = BE	218C470B78B02D39B84FC6892F5A1FE9C99D6B9A6B8B7471E039EDCFCA91004C	No	
102	CN = GlobalSign Atlas R3 OV ACME CA 2022 Q1, O = GlobalSign nv-sa, C = BE	EA532E6D78FF00FD4F56447F7E0A47D239D945424B77CF0D15A795CB4EE602BD	No	
103	CN = GlobalSign Atlas R3 OV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	4E1A564C71A04288970E53C037D1CFC25C1F9BEFC5276CF3BD501EE262F04202	No	
104	CN = GlobalSign Atlas ECCR5 OV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	90AF1B61A082662A639CAA68C6A3FB41EBBA3760C351A4A1E89FB6DACA D486FC	No	
105	CN = Alibaba Cloud GCC R3 TLS OV CA 2021, O = Alibaba Cloud Computing Co., Ltd., C = CN	31A096A1CB918876EE57C85B2349FC9CC2C2CB4FCF9BDD37787CE9DA57AF4790	No	
106	CN = CUISEC GCC R3 TLS OV CA 2021,	C7F145D474F5DC20B27A64E1696179522469078B333FE8FF887B97CE7805E362	Yes	



	O = 联通智慧安全科技有限公司, CN			
107	CN = ATT Atlas R3 OV TLS CA 2020, O = ATT Services Inc, C = US	DC2728331312E75C4D7B442F3BDDA790CB77A9D6AC854D5BCE18AC43CA59909A	Yes	
108	CN = CrowdStrike GCC R3 TLS OV CA 2020, O = CrowdStrike Inc., C = US	78CB512DE48CEDCD7134DF57C973C1E1A07692B8F542A44ACEBB8BB776D55D59	Yes	
109	CN = DPDHL Global TLS CA - I5, O = Deutsche Post AG, C = DE	32A4E554E363116FE48E22F01DAC1736752A71C720F99F462D565022D3BAD07D	Yes	
110	CN = RNP ICPEdu OV SSL CA 2019, O = Rede Nacional de Ensino e Pesquisa - RNP, C = BR	88FC18BD071BE1FBC53FFBC801F03F5B2C4DA87BBA0C098E2B4808F19EA B05FE	Yes	
111	CN = SHECA OV Secure Server CA, O = Shanghai Electronic Certificate Authority Center Co., Ltd., C = CN	AD7B58C3C5D9586BE5B62799C2792C4111C9852A96F7B0607221265713957E1C	No	
112	CN = Valid Certificadora Digital SSL OV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	6B4F9DE13678846730D50E914A08E7BE9B742CA3A0A7D5393367830B93A6F553	Yes	
113	CN = Soluti CA - OV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	AB74B1411AD23E2227FB88A2A9304A1A45A5C4840B3635F1036A46E8374279AC	Yes	
114	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	E0C2EBD1F6BAD4FEAAE31A3107E69ABEE902DB38B9DFBE33F0570BDA3494C20A	Yes	
115	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	4B7334E1D8999822BAFA8FF6888125389B18A4E5AB26FFA624C7F68FDC81F0CB	Yes	
116	CN = GlobalSign ECC CloudSSL CA - SHA384 - G3, O = GlobalSign nv-sa, C = BE	BOCD6AE7B9E20EC5F830FEE01F666D5D90E6E229D06BC46A30ACCEDFEC889648	Yes	
117	CN = GlobalSign RSA OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	B676FFA3179E8812093A1B5EAFEE876AE7A6AAF231078DAD1BFB21CD2893764A	Yes	



118	CN = GlobalSign Organization Validated ECC CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	65EEC0CC6C970CC1CD73659115DC8D904E6F12E6DC8FD4DDA39D54CB30224780	No	
119	CN = GlobalSign ECC OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	87C71553445EB3C33C3E0710711B99E9C7773F04D91AC38A9F4C082EE24101EA	Yes	
120	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	74EF335E5E18788307FB9D89CB704BEC112ABD23487DBFF41C4DED5070F241D9	Yes	
121	CN = GlobalSign Organization Validated CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	1E1741A12EB8DA2BD76EA96C04F520359839710F620E80952F48DD0240A12CD8	Yes	
122	CN = GlobalSign Organization Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	699D54B7482A5D329331EA0415CC2EDCD60FDA01D19E71D054196BCE0677735C	Yes	
123	CN = Trusted Root TLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	91F19CE503C9FE7FF9587D8EFBEF7315AAEE77DC2D14526126493B4AD6FE801F	No	
124	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	1C9737E968AD9DFF8D8D7FCF996A144BB97851A19011A0190C943CAE8D43CFE0	Yes	
125	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	E155EBF96334E79AE2E287D55CFC9185DE24935A653F13C5BA05AFF818771BC6	Yes	Revoked on July 07, 2022
126	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	C2E4236DB1B757B51B77921388EFA823E6A600FD4BDA30B63AB77886F25618B7	Yes	Revoked on July 07, 2022
127	CN = GlobalSign ECC384 SSL CA - G3, O = GlobalSign nv-sa, C = BE	DC6C44AC8A3CD5C3451273F4431526B2EF666062EE763258A928F60BD08E39FE	No	Revoked on July 07, 2022
128	CN = VTB BANK GCC R6 OV CA 2021, O = VTB BANK (PJSC), C = RU	312AB012744F859EEF8AE0FA25D0259E89DAAF51B94FAC67DFC61060F0DB2207	No	Revoked on April 06, 2022
129	CN = GlobalSign Atlas ECCR5 OV TLS CA 2020-12,	2EB8A1317288F08233E6883CEBE67EA6A0989E22ACA42C58D59F5A834E02C513	No	



130	O = GlobalSign nv-sa, CN = GlobalSign Atlas R3 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	A6032CC352F1E2E3628E162A3047BC7D647E2D601A2C0F26CAAF9AAF7A54239C	No	
131	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	0B339212D7CFF17A2C59E35669B58E77350133750A78DA9404770EDD470DEF76	Yes	
132	CN = Prodrive Technologies B.V. OV SSL Issuing CA, O = Prodrive Technologies B.V., C = NL	580BB3AB127F5E13E940AE7365E3C69A62AD204D7FDFA451592FE7C47DC02A95	Yes	
133	CN = AC Defesa GR3 OV TLS CA 2023, O = Ministerio da Defesa, C = BR	23D5EFBFB41CE7B1F30BAB8A8F64AF85EDBB5D7A49C08D616DE4C47CADB03597	Yes	

EV TLS Issuing CA				
#	Subject	Fingerprint SHA-256	Issuance during the period?	Additional information
134	CN = GlobalSign Atlas E46 EV TLS CA 2023 Q2, O = GlobalSign nv-sa, C = BE	B95D0B51AAB7504D0F8780173B8C395DD718371BA61ADE30C11B1B77B33EC01B	No	
135	CN = GlobalSign Atlas R46 EV TLS CA 2023 Q2, O = GlobalSign nv-sa, C = BE	BA0DF2D121A739E0002AA19B5B2400F4204A324F28669356CEB0B1B2DADF8B86	No	
136	CN = GlobalSign Atlas R6 EV TLS CA 2023 Q2, O = GlobalSign nv-sa, C = BE	AEDCC1DBC44D96F692BD451D76A3229839151D5BE82FE8D0D1B23030F48FB19	No	
137	CN = GlobalSign Atlas E46 EV TLS CA 2023 Q1, O = GlobalSign nv-sa, C = BE	8D1EE31E047C9E604CF0603A9076DC45A7BD4D4AF4584D2156F03752626D8A6E	No	
138	CN = GlobalSign Atlas R46 EV TLS CA 2023 Q1, O = GlobalSign nv-sa, C = BE	A02C04DAB0B317A4910753F2F74E3C78B39AD210E5CB72870B278122AD35B265	No	



139	CN = GlobalSign Atlas R6 EV TLS CA 2023 Q1, O = GlobalSign nv-sa, C = BE	1083D57464FD5128B80B22965FA205E13168DDFCCDF17A7095F3BE0ED0A B3A91	No	
140	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q4, O = GlobalSign nv-sa, C = BE	A34B15C8D1C296106ACBC14680160027B1FA49114C21BD99B3AE59BD8C 4C7B54	Yes	
141	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q4, O = GlobalSign nv-sa, C = BE	B050000CF749EC658A6B9ED8D4C3A393435644A327603FB036327E32A4 7BFBA4	Yes	
142	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q4, O = GlobalSign nv-sa, C = BE	C1262AC6412075B2513AE5E563FCCEDB4B3E59B812695EE0CD87223A2C 2D048B	Yes	
143	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q3, O = GlobalSign nv-sa, C = BE	4006CDDFF6D8D52DC090FF5382B9C30CEA8CC5005DF2D5E8203CD6792179 7750D	No	
144	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q3, O = GlobalSign nv-sa, C = BE	0ED5AA0061D09B703E1B3150FB6367870BBF245CCEED4FE08F2DBE42017 23A8D	No	
145	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q3, O = GlobalSign nv-sa, C = BE	0C92594BD394B4887A1D66EC5E631FFAD3BA4B07FE2EB6D15D2F5FEE4C9 0C454	No	
146	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q4, O = GlobalSign nv-sa, C = BE	B51D85A08FACB06F97FDF58563749003033EE77DD583986204499197CA8 E7077	No	
147	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q3, O = GlobalSign nv-sa, C = BE	29C840D062AC862DB4D20928D2AEFD83B35A46BD4533995FF2EFD3E3EE8 CFFD9	No	
148	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q2, O = GlobalSign nv-sa, C = BE	A40C91E466D62CDB32B7139E8748F0EB5A817F6BB8A9F999A7A9BF4306 D6D5D5	No	
149	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q1, O = GlobalSign nv-sa,	A7DCFD3D09377C39BA3A7F630E052EC593E9726D1DA57229E599D15AD6 DCCA7B	No	



	C = BE			
150	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q4, O = GlobalSign nv-sa, C = BE	2DA52277662DC1C779E2439FAF58F85F87DBA73E0F16F1B0EB310A4919CFC3BA	No	
151	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q3, O = GlobalSign nv-sa, C = BE	430B172A6F7146B16A75BCC5BFA1D60C61DEEAA2ABAC61B4394E4A6B291C48CC	No	
152	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q2, O = GlobalSign nv-sa, C = BE	F4C5F3956379493830DE7456E0A55D6FBC1B8EA08B756488FF005B6C394A69C7	No	
153	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q1, O = GlobalSign nv-sa, C = BE	F9120A71D50697B9992A7357A0A9A0DDC4BFC3598FCB4F01642964824D3CF276	No	
154	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	5E2A73EE6069DE65322DCF0430176B385F5238C296EE4392E7ED7DB4BE908A40	No	
155	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	398DC562DC098CF75F3A151216E583380C279444B0D63E766D9DF6F47D04C60	No	
156	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	256602DC8A8041B2EDC0CAE611A6A98D9B39AD4DE3E19F62DC0A0A1958B72271	No	
157	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	9C9D5E986B5BEA7A1EC8457EBCAA600D2435803B91FEC97C4E5043BE6742D4B1	No	
158	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	4CFA14BC7E8F48D4677B0604777AF76AB0C55B326F8B97BA95F6ACE115C05F16	No	
159	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	C9A74009DAE194A40BD122ABD015D44E93CB7879B0949054A31042EF4C99E5D6	No	
160	CN = GlobalSign GCC E5 UK EV QWAC CA 2021,	0966A88729C938F9DCD65BB3C63B608618EAE5183ED1FED752B323089687A20E	No	



	O = GMO GlobalSign Ltd, CN = GlobalSign			
161	CN = GlobalSign Atlas R6 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	0ABB1CDE53CCAC170483DAFCD3CDB9F2622BA7E47D31EC0FD3DB271B4AA5303	No	
162	CN = GlobalSign Atlas R46 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	385AA00A1848F807F665561E888B0D4F69614052D825F3C33970E00F4C3658DD	No	
163	CN = GlobalSign Atlas E46 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	44E683576E1C960D784D17BB2325C25CF1BE4E20470C31D9D73CACED496C95C9	No	
164	CN = CUISEC GCC R3 TLS EV CA 2021, O = 联通智慧安全科技有限公司, C = CN	9BFABD8D91284500B4D412C5725C87CB3A013F940FF1E62810E6929C69393ED9	Yes	
165	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q1, O = GlobalSign nv-sa, C = BE	F2BC379B1EF45624D8F822B6E359502D470F384E53C082F7AE21869C13A5D345	No	
166	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q2, O = GlobalSign nv-sa, C = BE	250AFA50B60D30D1217D00E7DD8CCE6B51F5C0B6A6369324842C37DEB44F9715	No	
167	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q3, O = GlobalSign nv-sa, C = BE	9D51DC2750A13BD627D99FDCC720D1904FE81059110BB9DE11B039A4B2ECA531	No	
168	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q4, O = GlobalSign nv-sa, C = BE	451FA3A18064B4DD03ADFE8B8BBF16258CB98A1A6FEE5D6B0A37C98A0B5E6DAE	No	
169	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q1, O = GlobalSign nv-sa, C = BE	4D81D18D57CDA96440CBFD0FA05CC387B7C69DE3A9E68B4036E1168EE2B7BD21	No	
170	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q2, O = GlobalSign nv-sa, C = BE	ED2B6C6F6C669EEC6C158B0FD61E4454185C42842523866F3B3EE9B1F0F62882	No	
171	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q3,	ODA5820FDFE4FCF9B9F94C140DB0F06D670D86FCB1BDD9597BCA8731532F353C	No	



	O = GlobalSign nv-sa, C = BE			
172	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q4, O = GlobalSign nv-sa, C = BE	4EF99E6A8B14F69938715371B1D853472534CBF595A743CE993E7B386F99B895	No	
173	CN = GlobalSign GCC E5 EV QWAC CA 2021, O = GlobalSign nv-sa, C = BE	0DD2C7E0AF8200F49F4192A89AE634D4CE41B80C63B0629CC68E538C316F020E	No	
174	CN = GlobalSign Atlas R3 AlphaSSL CA H1 2021, O = GlobalSign nv-sa, C = BE	1ABC5AD5BC3911A5B4A91E42BBA3212E2AA3DC80147EFE1D49572E4BE0532633	No	
175	CN = GlobalSign Extended Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	AED5DD9A5339685DFB029F6D89A14335A96512C3CACC52B2994AF8B6B37FA4D2	Yes	
176	CN = GlobalSign ECC EV SSL CA 2018, O = GlobalSign nv-sa, C = BE	8F19FFE02FC795ED70765D1436ADDF772FE0F0773DA436EDBDB42A2E30E2E828	Yes	
177	CN = GlobalSign GCC R3 UK EV QWAC CA 2020, O = GMO GlobalSign Ltd, C = GB	A33017D9DF494C09D58709107403AEE461B9461E81BA395C28C36693C27D1986	No	
178	CN = GlobalSign GCC R3 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	D4A5941C7141ED1949A0C6CE9DD45A0AB94DC337902EB0A1209852738EEBE854	Yes	
179	CN = Valid Certificadora Digital SSL EV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	8AEFEBD88BE87A30B19C60C5BD0FB5E9FBCD15D5582D5FC9A7499578D68DCECO	Yes	
180	CN = Soluti CA - EV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	11FBA4A7EE579C70E1D57F9F9B6A8C209E1219C4F1D3846F83FFCE74E9E5E2CE	Yes	
181	CN = GlobalSign Atlas R6 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	BCE7091355D2417A37F8CFE2AC8F17C2748888BA0EEA90000FC980ECFC2D041F	No	
182	CN = GlobalSign Atlas E46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	364DF25CC88F6FB0202C02CD9B8EA02DFE8AC02341EFF5A9DFFC5BE159ED5991	No	



	O = GlobalSign nv-sa, C = BE			
183	CN = GlobalSign Atlas R46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	E1E15D289697AF3285BF34112A3E60BC11C0C8122DD2B9B3420AB2E5E57883CA	No	
184	CN = GlobalSign ECC384 EV SSL CA - G3, O = GlobalSign nv-sa, C = BE	15549187490314F5177641F0BEB32634AA1230EB2CF2C28AD9C73914FB18ABA0	No	Revoked on July 07, 2022
185	CN = VTB BANK GCC R6 EV CA 2021, O = VTB BANK (PJSC), C = RU	52C09A2CA179368703A1857004CD5A3C87D3BDAC3A558E143EF3508FBE EB1032	No	Revoked on April 06, 2022

Non-EV Code Signing CA				
#	Subject	Fingerprint SHA-256	Issuance during the period?	Additional information
186	CN = GlobalSign GCC R45 CodeSigning CA 2020, O = GlobalSign nv-sa, C = BE	74D499A72D0BA5D4DDEC55805ECF157C891E45E5D490A19DC5FD4476954E774B	Yes	
187	CN = GlobalSign CodeSigning CA - G3, O = GlobalSign nv-sa, C = BE	4047C9D69260C07213BCB8608A7EC5E2838A56B79F67847812EAC0778D0D27F1	No	
188	CN = GlobalSign CodeSigning CA - G2, O = GlobalSign nv-sa, C = BE	FFFE077503FD72F0E5338B0A7B4E218E7D1FF82E493E7E852AE51AA1C7585D17	No	
189	CN = GlobalSign CodeSigning CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	BE40813869AB27A071D12AD6A8830583EBC3B618E3F2346359F4B11A1C9434EE	No	
190	CN = GlobalSign CodeSigning CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	FB54EEA9BCE8E9EA9782154F3D414277FB709F49B947D73978AC278546C2CE03	No	

EV Code Signing CA				
#	Subject	Fingerprint SHA-256	Issuance during the	Additional information



191	CN = GlobalSign GCC R45 EV CodeSigning CA 2020, O = GlobalSign nv-sa, C = BE	CD0E144DD10BAC221FE2FB901058D16450A0578B3C47C770908F2E9ADA28EF12	period? Yes	
192	CN = GlobalSign Extended Validation CodeSigning CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	1E864278C20881B671C0C6D2E14B61150AD1F13CF92C6EC14B550DCBC47E1541	No	
193	CN = GlobalSign Extended Validation CodeSigning CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	DD038E87E0B4D2C369680D3DE78638AB39FC1D7E50632996921101768DB8D4D8	No	

Timestamp CA				
#	Subject	Fingerprint SHA-256	Issuance during the period?	Additional information
194	CN = GlobalSign Atlas E46 TimeStamping CA 2022, O = GlobalSign nv-sa, C = BE	FE7C73361732C6C64739FA83A1D7C781EE1AEA990A605AD2FC72FB9586A452FC	No	
195	CN = GlobalSign Atlas R45 TimeStamping CA 2022, O = GlobalSign nv-sa, C = BE	0C74179FDE6EFAD4A052C55DF083048430560483706179F305102E0C74B96CCB	No	
196	CN = GlobalSign E46 AATL TimeStamping Root CA 2021, O = GlobalSign nv-sa, C = BE	2A34A0225DBC82845E8C5F2F13897179A9B2D91E74D93BDE0021F4F89804E59F	No	
197	CN = GlobalSign R45 AATL TimeStamping Root CA 2021, O = GlobalSign nv-sa, C = BE	3A6224E6EF98D0C4770C229E89CFA346623DF5A250D4B68D04CD5DA4BD85C4CE	Yes	
198	CN = GlobalSign Partners Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	2A015531A5F3A4CE589BD853C71DD069587322F574D85C9C9B9F9DF8F86C075E	Yes	
199	CN = GlobalSign Timestamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	F642418E4D0C63DEC785C960EFA68BA745F38851744EF81F225CB89305314D50	Yes	



200	CN = GlobalSign Partners TSA CA for Building a better working world, O = GlobalSign nv-sa, C = BE	7E8F914119BB1090D6204908E5AE1F40BE24C1491CD7D5CFB6A93618CBC00FD9	No	
201	CN = GlobalSign Timestamping CA - G2, O = GlobalSign nv-sa, C = BE	C977923C771E1A66C925A2B6F501732E678DC9887AFE6BFAAC039D1D9A71F0EC	No	
202	CN = GlobalSign Timestamping CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	9BF9496777D14425ED0086C1BB2C0707B62A61C194C5162E4F07637AFF166B76	No	
203	CN = GlobalSign Timestamping CA, O = GlobalSign, OU = Timestamping CA	DOCAE6947BC77F0B495CA808D6CDE685FCD20225E1E530B635B113ED40728EF3	No	
204	CN = GlobalSign Timestamping CA - R3, O = GlobalSign, OU = Timestamping CA	61C1067083AE044EF1D649CE590BBF09D9D739E025DA8D195F71CFAAD6EBAE69	No	
205	CN = GlobalSign Timestamping CA - G3, O = GlobalSign nv-sa, C = BE	95C6A747DD0BC755A1941827E894B8083592241B792541E2EB1B30FB9B13F57F	Yes	
206	CN = GlobalSign Timestamping CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	BE33D1C57EBDDD927B57BDB604BE457B552FE568E7F3DCBA093C39ED1C30A239	Yes	

Other CA				
#	Subject	Fingerprint SHA-256	Issuance during the period?	Additional information
207	CN = Hongkong Post Root CA 3, O = Hongkong Post, L = Hong Kong, ST = Hong Kong, C = HK	00482341B104A0DE6E0F1D508DB84CB514F7494FE04982133A5C750136C55DC8	No	Hong Kong Post Audit Report (*)
208	CN = GTS Root R1, O = Google Trust Services LLC, C = US	3EE0278DF71FA3C125C4CD487F01D774694E6FC57E0CD94C24EFD769133918E5	No	Google Audit Report (*)
209	CN = Bechtel Atlas R45 SMIME ICA 2022,	6390D54F26A13B6511B25130EC0580987AFAB843F15A1E16695AA456BD36C043	Yes	



	O = Bechtel Corporation, C = US			
210	CN = RT2 Atlas Client Authentication ICA 2022, O = Real Time Technologies, Inc., C = US	086E13C1B237ABB0B2FD6A3424419E6F241BBB849CB60054F2309F1480592B5F	No	
211	CN = Clayco Atlas R45 SMIME CA 2022, O = Clayco, Inc., C = US	5B92AF30724309D82A1DEDDFB0975A336A7C7A45DDCAB6E0D24A48EBC49575B9	Yes	
212	CN = GlobalSign Atlas E46 Qualified Timestamping CA 2022, O = GlobalSign nv-sa, C = BE	FE0FC91A867975373ED2872CB3BD3DB708256D7C3A978486AF001CC008C1EBCC	No	
213	CN = State Oil Atlas R45 SMIME CA 2022, O = State Oil Ltd, C = GB	19B57472F46A480A721F03275647D4E5DF7FC790BCF7603DD5C8F9F35F7DE117	Yes	
214	CN = GlobalSign GCC R45 PersonalSign 3 CA 2022, O = GlobalSign nv-sa, C = BE	9153DB840DA0BDD27A0A2FCA32E4E278AF54C3580F3C45FACA402C70E6E4DA5C	Yes	
215	CN = SWIFT Atlas R3 SMIME CA 2022, O = SWIFT SC, C = BE	A4819D67CC975AC71BC9315FA08DFA5AFFB9A537D79A6865FEF574F28ED5B52B	Yes	
216	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Remote QSCD Delegated RA CA 2022, O = GlobalSign nv-sa, C = BE	AD304215A70BF5D06E84973BF49862F10CFF490DA9C97D1D6FA6934F8E3C98AF	No	
217	CN = AbbVie Atlas R45 AATL CA 2022, O = AbbVie, Inc., C = US	6FD7EEFF0B14D389FC8115B4FCDF64EED38F29573F0B3969C71BEB0FE55C3F5B	No	
218	CN = GlobalSign Timestamping Root E46, O = GlobalSign nv-sa, C = BE	24E9A5B561CDFEFEEEB73245DAC1B04465C513F936621D21902DD8A58FD6C461	No	
219	CN = GlobalSign R45 AATL Root CA 2020, O = GlobalSign nv-sa, C = BE	B296DC3BCF451217D7AD4F84FB8EE25CC92FC659CAFA0EB4A8B5B4DB3D0215C2	Yes	
220	2.5.4.97 = NTRGB-04705639,	F5E9E2705AB0C93E80652D2DEB573AB01D6700597BDA122BC08BA97FDC	No	



	CN = GlobalSign GCC R45 UK Qualified Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	713368		
221	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified Authentication CA 2020, O = GMO GlobalSign Ltd, C = GB	1DBC5465732AC3232FF12641C2898EA0F239D06186DD1B085496ABC6E5BD07F2	No	
222	CN = EUSPA AR45 SMIME CA 2021, O = European Union Agency for the Space Programme (EUSPA), C = CZ	A2F5C0CD7364E1123B21556FB7999BEA8E9F0AEF399A3544CD12EB83C238BA1E	Yes	
223	CN = COMESA GCC R45 SMIME CA 2021, O = Common Market for Eastern and Southern Africa Secretariat, C = ZM	C50DECEFBBC246CB07F4FEB282A7633337721F787F8EB68D897F05284FF94FA8A	Yes	
224	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Authentication CA 2021, O = GlobalSign nv-sa, C = BE	9BBAB193D19DBA9BA86497C633E89EB421131D29B64129B449832BEC2C8259F	No	
225	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified Authentication CA 2021, O = GlobalSign nv-sa, C = BE	102DCE6691C0B6DF7CD2521AF88C3546D7582A2CB7DAAD087F9C7DB2AF8351C5	No	
226	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Non QSCD Signing CA 2021, O = GlobalSign nv-sa, C = BE	96B67EB3D828223480405557E3993A3B1781D527294D1978EB0C4ABCC6F40AF2	No	
227	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified QSCD Signing CA 2021, O = GlobalSign nv-sa, C = BE	7A25E3C7B2B3325C5E65D01B9F6FF474ADE4BBCC8CCA3D7F29655352386F36B7	No	
228	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified QSCD Signing CA 2021, O = GlobalSign nv-sa, C = BE	625597092D6B09F1AB74ECF29F38E0E1C41AF487594B23489A8A604687ACAD99	No	



229	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified Non QSCD Signing CA 2021, O = GlobalSign nv-sa, C = BE	DBFF9EBA713FF77B60D52B37F35C5AD52D9CD06412F3BAD9128D77D95C 7B887E	No	
230	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified Authentication CA 2020, O = GlobalSign nv-sa, C = BE	5F2155F9A7444615C673994CDA99E963BB558A367B20305520E93D15EF3 AF4E8	No	
231	CN = NAESB GCC R45 Client Authentication CA 2020, O = GMO GlobalSign Inc., C = US	5EBD04144508FADD1B9DB79FF62B826D6FF893987B1534C0F8EEC2261D6 AC452	Yes	
232	CN = InComm Agent Solutions Inc Atlas Issuing CA 2020, O = InComm Agent Solutions Inc, C = US	4DFD9A61EB32208A94F15719FF2EC71449BCB0F344C18D5D1D3994A6C30 EC92E	Yes	
233	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified Authentication CA 2020, O = GMO GlobalSign Ltd, C = GB	EEE8A6FBDE0B1340552AE739832A686FE96103435AE1FCE9392D655E00D 8670D	No	
234	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified Authentication CA 2020, O = GlobalSign nv-sa, C = BE	E042DA36AA8B9A290A525B63AFBBD42E3DBA8286F7100C7981799C6EF2 F8919C	No	
235	CN = GlobalSign GCC R45 PersonalSign 3 CA 2020, O = GlobalSign nv-sa, C = BE	50161C1232F32E8057879F9C7651A9088F5AA1EF5AC9A9A4BD445C6E78 8EA6F8	Yes	
236	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas R45 UK Qualified Timestamping CA 2020, O = GMO GlobalSign Ltd, C = GB	4C03F2D6941F2DFCA27EDC599F385E6CD3FFD0CC842F2CCB95B77580A2D 1FF93	No	
237	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Timestamping CA 2020, O = GlobalSign nv-sa, C = BE	D86E6264D58E4CA78AF419740D8186EA8EC48F0C33B4B4D7CA027931D6 27B1C8	No	
238	2.5.4.97 = NTRGB-04705639,	28CB8EE23E7BDBBF40B2959A57BB589991C2635CD3B71AAB0E84F993C5	No	



Building a better working world	CN = GlobalSign GCC E45 UK Qualified Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	59D29F		
239	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified QSCD Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	712C42F3C0FA3BDFA11B22AC9811C8EB912C4B464B43C705825DEEDC1195AD33	No	
240	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified Signing CA 2020, O = GlobalSign nv-sa, C = BE	35E9429CDE680D8D5311CDD46FAEF0AEE694B0556C3D69C4F670E243D64C87FE	No	
241	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified QSCD Signing CA 2020, O = GlobalSign nv-sa, C = BE	8115E2CB4F04E56EA70EA932D0622831DD53B22BF6A93B3ACD9125FAB0374AF1	No	
242	CN = GlobalSign E45 AATL Root CA 2020, O = GlobalSign nv-sa, C = BE	87903E20623512D28BDBFACE4D41BD50F5BA6B1B2E8CCAB134CE161769EAEC00	No	
243	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas E45 UK Qualified Remote Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	B89EBBFC57AE60653C676B8EB399DC9415BBB738CB0370651A86BFF075C83A39	No	
244	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified Remote Signing CA 2020, O = GlobalSign nv-sa, C = BE	5CB0FDEF052BD18A0A40ADA2235F46EB42B6D0993ED5A50DE47E3EA12FF191B1	No	
245	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified QSCD Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	91F881C556A920B92C4C48221FAAC19615437CF4ACB7D079C0B426BF3483B3AE	No	
246	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified Signing CA 2020, O = GlobalSign nv-sa, C = BE	4E1474CFEB41D048C7E1E2C975D69AD3FD739BD44577A80D0432F233D51C5C77	No	



247	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified QSCD Signing CA 2020, O = GlobalSign nv-sa, C = BE	1B728D4A76506634A11007912F1D8C6B9AA39BE1AFCA49096657CF1FFB 4513BF	No	
248	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas R45 UK Qualified Remote Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	0958E7A84F392A4F3B7DC5E30FDC8DF733E69B44C68C16FC0DA1741C084 19DA0	No	
249	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Remote Signing CA 2020, O = GlobalSign nv-sa, C = BE	323F35F0DFB01D6B478C24026C66852AAD3E96DCB1C5BE17C1DA1EC47D 77CC87	No	
250	CN = GlobalSign GCC R45 AATL CA 2020, O = GlobalSign nv-sa, C = BE	BCF8D9040635C95E84F9FEDDF36F9422C0D215C23798E9C2D5F3798ECF2 7B68A	Yes	
251	CN = GlobalSign Atlas R45 AATL CA 2020, O = GlobalSign nv-sa, C = BE	65573E11BB13C6ED115E0B90E2C30B1E4DE4D5CAC1B31EAB2D417C32A3 DA5D79	Yes	
252	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas ECCR5 UK Qualified Timestamping CA 2020, O = GMO GlobalSign Ltd, C = GB	40382F8827B75D25705A6B3DA32533C5F4218BD7FA697CB0B300E8F4704 7FBC9	No	
253	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas ECCR5 Qualified Timestamping CA 2020, O = GlobalSign nv-sa, C = BE	E55A4FE881A4B0433674EC0E5CC261A99CCE3FEF649528C7218085BEDCD 11512	No	
254	CN = GlobalSign Qualified Time Stamping CA 2019, O = GlobalSign nv-sa, C = BE	74ABE5E5CCEB75491FF72C4CF325405D8ADBFE390E189CF430BA60E6279 8878E	No	
255	CN = GlobalSign Timestamping Root R45, O = GlobalSign nv-sa, C = BE	6AFBC07C724C6F75C7743392F32BF5780BD5DD39268544D4882E7AEC1A DD0282	No	
256	CN = European GNSS Agency Atlas R45 SMIME CA 2021,	F4EFE27C6B037747B3A89E23EE23C1B70A24DEB53B2E02F423BB0F73E18 22267	No	



	O = European GNSS Agency (GSA), Building a better working world			
257	CN = GlobalSign TSA CA for AATL, O = GlobalSign nv-sa, C = BE	4D8EB49380EC72AC9FDF21FE1C6DB2E9490C76BEADD1F7B528C3CCD272C8FE28	No	
258	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	1DF6054D6641404633641BB5FA3742FDA7D075E2514840AB61E00CCBBB7D341D	No	
259	CN = EY LLP GCC R3 SMIME CA 2020, O = Ernst Young LLP, C = GB	3A093122808FFFA440E19824D0BC7CD6B01D8D8277F7F42FA16E80A0205D4A7A	Yes	
260	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	45CB1D874CB03BD5C5B6E079C8FC29E51521EE5628486301964A41F94BA59F88	No	
261	CN = RWE Atlas R45 SMIME CA 2020, O = RWE AG, C = DE	BEE8FB99D7B9EC0CAEF1B1A6ACFFEABD777E31CBAC2D0E1846BDAEC4D5B18BE8	Yes	
262	CN = GROB-WERKE GmbH und Co. KG GCC R3 SMIME CA 2020, O = GROB-WERKE GmbH und Co. KG, C = DE	B75840FEA15C545335CD4BA58B707F53524CE984655AEBCC248A57E6F2403A8B	Yes	
263	CN = HERTZ GCC R45 SMIME CA 2020, O = The HERTZ Corporation, C = US	013C13426B92F703BA573D9E16C2E35AECA26C60F606B88D3CE2150C94D56C14	Yes	
264	CN = GlobalSign Atlas R3 SMIME CA 2020, O = GlobalSign nv-sa, C = BE	479D6A0980722966237F06C41842EE796B55D4D00A0D663B785D48433A29156E	Yes	
265	CN = Accenture Federal Services GCC R3 Global CA 2020, O = Accenture Federal Services LLC, C = US	9D61B40ECFE094B415FBF6AEEA1FDB27A1A4C3B6FD9008D768777D6D7FBAAEE9	Yes	
266	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	3F319B2AFED4A0F75127BE59925550D0428E68763A09E273EB6A9FF8D18DBB5B	No	
267	CN = GlobalSign Secure Mail Root E45, O = GlobalSign nv-sa, C = BE	5B87841E80AAFE877804E56694473DCA8BB9F1FF4FFCF885A3DAFD24463FCB64	No	
268	CN = GlobalSign Corporate IT Atlas R45 SMIME CA 2021, O = GlobalSign nv-sa, C = BE	7C4E78C74B4818D17EF8B8AB91E32DB4F7E3CE84A0C5E47AAA62AE39FAB60D01	Yes	



269	CN = CBMM GCC R3 SMIME CA 2020, O = COMPANHIA BRASILEIRA DE METALURGIA E MINERACAO, C = BR	F6F9C3FC5636C7E800EB1BDDFD33AAF98495C130DBF48F9BAF4AB7A1F665DFB4	Yes	
270	CN = DPDHL User CA I5, O = Deutsche Post AG, C = DE	163B5F69720164075C16CE760A93C85D5073CD5A0D41C7A3AFB0B5E75B3DC646	Yes	
271	CN = AbbVie Atlas R6 AATL ICA 2020, O = AbbVie, Inc., C = US	6509F94BCA4DC619F3E732D533ACD3D0F10ABA102A13123B6AF737C8E12DAA21	Yes	
272	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A63C1398B5F8DD2D432FBE4C2C19142BEA6D5D0221FAE794718AE7597A CCA96D	No	
273	CN = GlobalSign Code Signing Root R45, O = GlobalSign nv-sa, C = BE	6385DDCD1B768648267EE5122897CA085FC45D6030ECB55098F583AF152AA4A6	No	
274	CN = Trusted Root nonTLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	3A30D4A3043F195609E30F747754699CC6CC97E1F5FCB83DE87E659E579E39AD	No	
275	CN = GlobalSign Code Signing Root E45, O = GlobalSign nv-sa, C = BE	E506B72BB97A14D24959A0D1A977E1ACDB6155D68FB4846885E544D147E7D577	No	
276	CN = GlobalSign CA for AATL - SHA384 - G4, O = GlobalSign nv-sa, C = BE	AC0AB963BB5F3DA05FBC8687F98C2B6EA0BB499E6118C1A9136B1BC7C3C71A6B	Yes	
277	CN = GlobalSign Client Authentication Root E45, O = GlobalSign nv-sa, C = BE	F375270F2F216B9F62CC31795619F6FE1943DF65D1B198D3341170A40725BFC7	No	
278	CN = DSigner GCC R3 SMIME CA 2020, O = DSIGNER, SOCIEDAD AN\C3\93NIMA, C = GT	3FA4A9B65FDF6876FE668DFECC434932EBC254FD741119FC432A5989A085F320	No	
279	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	0F1554C2FD591B0256A608E1C136A837E7A6E041561EE08A911B2AFDCD3C6C1B	No	
280	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	DDA8DA736187D76F4F0ED5A5F667B54D99A98AE06091D0E3A01714E9221695AD	No	



281	CN = Hyperion GCC R3 SMIME CA 2020, O = Hyperion Services Ltd., C = GB	9537738522B6A87FCF8338CF270203CCF1A7770BB14BB23FA2882A05FFB804E4	Yes	
282	CN = GlobalSign GCC R3 PersonalSign 2 CA 2020, O = GlobalSign nv-sa, C = BE	F0DBB9E90E6643CCB23660147E5DE24760440089D96F4AD0D82F66C3E7D A5C20	Yes	
283	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A5E33C28E3013A71F5F760AE3B16595090043D2EC5209EC52903C4FBAD2 58DAD	No	
284	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	F349954E8FB6D44011BCB789D97D9A2CB2032BD5F0B598D1FB8A099F584 8D523	No	
285	CN = JCAN Public CA1 - G4, OU = JCAN Public CA1 - G4, O = JIPDEC, C = JP	9AC4C8E358C095C998122ADD17A336C0AC597ECBECB7EDC3F58A75040C F94A5F	Yes	
286	CN = CRB Group GCC R3 SMIME CA 2020, O = CRB Group, Inc., C = US	814179F36A71529C915C540261E44638E37A4FCE879740F0CE7351A8E92 91A03	No	
287	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	795A8468D098E3729E6A17920AA6D8F27E84DC180F85C9B28A77FB368D CC7895	No	
288	CN = GlobalSign GCC R6 AATL CA 2020, O = GlobalSign nv-sa, C = BE	75CC6021036890EAC71853FAE8382CF8DB33DC41706F42AAFE421E98AD 38174C	Yes	
289	CN = GlobalSign GCC R3 PersonalSign 1 CA 2020, O = GlobalSign nv-sa, C = BE	583C7FC250856B7F947FC7CC076FE216273CA1713D122C2E5D8F6038FD6 E3562	Yes	
290	CN = GlobalSign Secure Mail Root R45, O = GlobalSign nv-sa, C = BE	5268C94573AF66BA5A3DE979F2048DE43BD4B68AF0B73A2D639159FAFE 637F69	No	
291	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	C84E1378B974A991ACDCDD733421E3061E6FA21A0491C8902BAFDE3855 E0063E	No	
292	CN = FIFCO Atlas R45 SMIME CA 2020, O = FIFCO,	80642AAC7C782BCDB0C3F6F385488F9BE3BB2DE30B863009E74B29F026C 9EAE6	No	



	C = CR			
293	CN = Trafigura PTE Ltd Atlas R45 SMIME CA 2020, O = Trafigura PTE Ltd, C = SG	36FCE16CC976727765DF5E9FADB12C544D704C35150D1F17DDE1A42A85 B88BE4	No	
294	CN = Spirit AeroSystems GCC R45 SMIME CA 2020, O = Spirit AeroSystems, Inc., C = US	90D87E23B012A357851472CE9F4E49201F67BA9EC1FB9CD236C0C5AAA1 5FFE9E	No	
295	CN = GlobalSign Code Signing Root R45, O = GlobalSign nv-sa, C = BE	05E0634B1FEB98AE6B4CF101728CF9D5A1793CEACE301506FF332B22D4C F08EB	No	
296	CN = GlobalSign Client Authentication Root R45, O = GlobalSign nv-sa, C = BE	3DA135562E942799D547CA72EA57D7AC03791B24D4E24BA2E1E1331E8A 1678F0	No	
297	CN = LinQuest GCC R3 SMIME CA 2020, O = LinQuest Corporation, C = US	DDD73ABF0259F18F77CA598C2745EA18243526B10D371D7E3B088D68C8 8C0A97	Yes	
298	CN = DexKo Global GCC R3 SMIME CA 2020, O = DexKo Global Inc., C = US	D531F24E655D1F28A344BD3E0E9B141CE88A4139C61CB0CF5184EF2E2B9 531A7	Yes	
299	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	33EF151EFB08D1C44FB85CC3F23EC6873014E9F881691BD4938B7F25158 0B694	No	
300	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	445EEC78BC61215044A0379656AA2D5DB5E42F76CB70B8D14C2077AA94 3D4EBB	No	
301	CN = GlobalSign CA for AATL - SHA256 - G2, O = GlobalSign nv-sa, C = BE	AA89C466E9D06882C0DAAF72BE0F0FBCFE7C1EF2AAAD190640C4AD44F5 517F34	No	
302	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	C94FEDDA4E8608908580BC7F87B434E03BB262E42F64C63820A8F50FB17 C1CEC	No	
303	CN = GlobalSign CA for AATL - SHA256 - G3, O = GlobalSign nv-sa, C = BE	2E8820DC0EAF3D6D285C057ECE14470B377438B002CEDD4C72B4F343 A54F43	No	
304	CN = GlobalSign ECC HV S/MIME CA 1,	E0CE5C4EF5D2186963D2B04ADE4612BBAF787E16048A5B468F7367776C3	No	Revoked on July 07,



305	O = GlobalSign nv-sa, C = BE	A03DE		2022
305	CN = GlobalSign Primary SHA256 CA for Adobe, OU = GlobalSign CDS, O = GlobalSign nv-sa, C = BE	8B8AAA67E1EB067303F09E17A505CE7B6CA1C8DC0E1DB59D982B579C69 D644E1	Yes	
306	CN = GlobalSign GCC E45 Client Authentication CA 2023, O = GlobalSign nv-sa, C = BE	ED8C173B5AA6C71B4456E10C2D9841D2F8B358E093C24BE021508EB0E79 505A6	No	

* 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
AE-01	Dubai	Dubai
BE-01	Belgium	Vlaams-Brabant
BR-01	Brazil	Minas Gerais
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	Makati
RU-01	Russia	Moscow
SG-01	Singapore	Singapore
SG-02	Singapore	Singapore
UK-01	United Kingdom	Kent
UK-02	United Kingdom	London
UK-03	United Kingdom	London
UK-04	United Kingdom	Kent
US-01	United States	New Hampshire

Appendix D - Publicly disclosed incidents

Bugzilla ID	Disclosure	Publicly Disclosed Link
1759854	GlobalSign: Certificate issued to FQDN with malformed CAA	Bugzilla Ticket Link
1760311	GlobalSign: OCSP responder certificates with more than 64 characters in CN	Bugzilla Ticket Link
1782391	GlobalSign: EV certificate with wildcard domain in common name and SAN	Bugzilla Ticket Link
1793441	GlobalSign: CRL contains invalid signature algorithm	Bugzilla Ticket Link



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GlobalSign Management's Assertion

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

- Subscriber registration
- Certificate renewal
- Certificate rekey
- Certificate issuance
- Certificate distribution
- Certificate revocation
- Certificate suspension
- Certificate validation
- Subscriber key generation and management
- Subordinate CA [cross-]certification

The management of GlobalSign is responsible for establishing and maintaining effective controls over its CA operations, including its CA business practices disclosure on its [website](#), CA business practices management, CA environmental controls, CA key lifecycle management controls, subscriber key lifecycle management controls, certificate lifecycle management controls, and subordinate CA 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 CA services. Based on that assessment, in GlobalSign management's opinion, in providing its Certification Authority (CA) services at its locations as detailed in [Appendix C](#), throughout the period April 1, 2022 to March 31, 2023, GlobalSign has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in the applicable versions of its Certification Practice Statements and Certificate Policies, as enumerated in [Appendix A](#)
- maintained effective controls to provide reasonable assurance that:
 - GlobalSign's Certification Practice Statements are consistent with its Certificate Policies
 - GlobalSign provides its services in accordance with its Certificate Policies and Certification Practice Statements
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and certificates it manages is established and protected throughout their lifecycles;
 - the integrity of subscriber keys and certificates it manages is established and protected throughout their lifecycles;
 - subscriber information is properly authenticated (for the registration activities performed by GlobalSign); and
 - subordinate CA certificate requests are accurate, authenticated, and approved

- maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorized individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity

in accordance with [WebTrust Principles and Criteria for Certification Authorities, Version 2.2.2](#), including the following:

CA Business Practices Disclosure

- Certification Practice Statement (CPS)
- Certificate Policy (CP)

CA Business Practices Management

- Certificate Policy Management
- Certification Practice Statement Management
- CP and CPS Consistency

CA Environmental Controls

- Security Management
- Asset Classification and Management
- Personnel Security
- Physical & Environmental Security
- Operations Management
- System Access Management
- System Development and Maintenance
- Business Continuity Management
- Monitoring and Compliance
- Audit Logging

CA Key Lifecycle Management Controls

- CA Key Generation
- CA Key Storage, Backup, and Recovery
- CA Public Key Distribution
- CA Key Usage
- CA Key Archival and Destruction
- CA Key Compromise
- CA Cryptographic Hardware Lifecycle Management

Subscriber Key Lifecycle Management Controls

- CA-Provided Subscriber Key Generation Services
- CA-Provided Subscriber Key Storage and Recovery Services
- Integrated Circuit Card (ICC) Lifecycle Management
- Requirements for Subscriber Key Management



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Certificate Lifecycle Management Controls

- Subscriber Registration
- Certificate Renewal
- Certificate Rekey
- Certificate Issuance
- Certificate Distribution
- Certificate Revocation
- Certificate Suspension
- Certificate Validation

Subordinate CA Certificate Lifecycle Management Controls

- Subordinate CA Certificate Lifecycle Management

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 does not escrow its CA keys. Accordingly, our assertion does not extend to controls that would address those criteria.

GlobalSign
Leuven, Belgium

Signed by: Arvid Vermote
Function: Chief Information Security Officer

June 28, 2023

Appendix A – Certification Practice Statements and Certificate Policies in Scope

Certification Practice Statement	Begin Effective Date	End Effective Date
Version 9.10	March 15, 2022	August 30, 2022
Version 9.11	August 30, 2022	March 28, 2023
Version 10.0	March 28, 2023	

Certificate Policy	Begin Effective Date	End Effective Date
Version 6.10	March 15, 2022	August 30, 2022
Version 6.11	August 30, 2022	March 28, 2023
Version 7.0	March 28, 2023	



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Appendix B – In-Scope CAs

The column “Issuance during the period?” indicates whether the CAs have issued end-entity certificates during the period April 1, 2022 to March 31, 2023.

Root CA				
#	Subject	Fingerprint SHA-256	Issuance during the period?	Additional information
1	CN = GlobalSign Root CA, OU = Root CA, O = GlobalSign nv-sa, C = BE	EBD41040E4BB3EC742C9E381D31EF2A41A48B6685C96E7CEF3C1DF6CD4331C99	No	
2	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	CBB522D7B7F127AD6A0113865BDF1CD4102E7D0759AF635A7CF4720DC963C53B	No	
3	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	179FBC148A3DD00FD24EA13458CC43BFA7F59C8182D783A513F6EBEC100C8924	No	
4	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	2CABEAFE37D06CA22ABA7391C0033D25982952C453647349763A3AB5AD6CCF69	No	
5	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	4FA3126D8D3A11D1C4855A4F807CBAD6CF919D3A5A88B03BEA2C6372D93C40C9	No	
6	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	CBB9C44D84B8043E1050EA31A69F514955D7BFD2E2C6B49301019AD61D9F5058	No	
7	CN = GlobalSign Secure Mail Root R45, O = GlobalSign nv-sa, C = BE	319AF0A7729E6F89269C131EA6A3A16FCD86389FDCAB3C47A4A675C161A3F974	No	
8	CN = GlobalSign Secure Mail Root E45, O = GlobalSign nv-sa, C = BE	5CBF6FB81FD417EA4128CD6F8172A3C9402094F74AB2ED3A06B4405D04F30B19	No	
9	CN = GlobalSign Code Signing Root R45,	7B9D553E1C92CB6E8803E137F4F287D4363757F5D44B37D52F9FCA22FB97DF86	No	

GlobalSign NV/SA

Diestsevest 14, 3000 Leuven Belgium

Main: +32 16 89 19 00 | Fax: +32 16 89 19 09

Web: www.globalsign.com | Email: sales@globalsign.com



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	O = GlobalSign nv-sa, C = BE			
10	CN = GlobalSign Code Signing Root E45, O = GlobalSign nv-sa, C = BE	26C6C5FD4928FD57A8A4C5724FDD279745869C60C338E262FFE901C31BD1DB2B	No	
11	CN = GlobalSign Document Signing Root R45, O = GlobalSign nv-sa, C = BE	38BE6C7EEB4547D82B9287F243AF32A9DEEB5DC5C9A87A0056F938D91B456A5A	No	
12	CN = GlobalSign Document Signing Root E45, O = GlobalSign nv-sa, C = BE	F86973BDD0514735E10C1190D0345BF89C77E1C4ADB3F65963B803FD3C9E1FF	No	
13	CN = GlobalSign IoT Root R60, O = GlobalSign nv-sa, C = BE	36E80B78775DDA9D0BAC964AC29D5A5EC4F3684E0C74445E954A191C2939B8E0	No	
14	CN = GlobalSign IoT Root E60, O = GlobalSign nv-sa, C = BE	43ED443C1F0CD46C9914B4272C24DC42CF6FE62B4AAB37585878A26D882AE4CB	No	
15	CN = GlobalSign Timestamping Root R45, O = GlobalSign nv-sa, C = BE	2BCBBFD66282C680491C8CD7735FDBBAB7A8079B127BEC60C535976834399AF7	No	
16	CN = GlobalSign Client Authentication Root R45, O = GlobalSign nv-sa, C = BE	165C7E810BD37C1D57CE9849ACCD500E5CB01EEA37DC550DB07E598AAD2474A8	No	
17	CN = GlobalSign Client Authentication Root E45, O = GlobalSign nv-sa, C = BE	8B0F0FAA2C00FE0532A8A54E7BC5FD139C1922C4F10F0B16E10FB8BE1A634964	No	
18	CN = GlobalSign Timestamping Root E46, O = GlobalSign nv-sa, C = BE	4774674B94B78F5CCBEF89FDDEBDABBD894A71B55576B8CC5E6876BA3EA B4538	No	

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Diestsevest 14, 3000 Leuven Belgium

Main: +32 16 89 19 00 | Fax: +32 16 89 19 09

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DV TLS Issuing CA				
#	Subject	Fingerprint SHA-256	Issuance during the period?	Additional information
19	CN = GlobalSign Atlas R3 AlphaSSL CA 2023 Q2, O = GlobalSign nv-sa, C = BE	8FF94F390EF3D4B472C53399E25D8CA74636F68264F456FF5F111CD8CB9C0FD8	No	
20	CN = GlobalSign Atlas ECCR5 DV TLS CA 2023 Q2, O = GlobalSign nv-sa, C = BE	86E5811AF6678C23FE7133CC92A27E93CFB85682BE0C2954575E7A4D06285598	No	
21	CN = GlobalSign Atlas R3 DV TLS CA 2023 Q2, O = GlobalSign nv-sa, C = BE	FA41F99D084E19438144D4FA7457C89ABA1BBA150BFB9DC4BF9D4D73E6623C6F	No	
22	CN = GlobalSign Atlas ECCR5 DV ACME CA 2023 Q2, O = GlobalSign nv-sa, C = BE	F5CA53D8790D2AC5E1275D2E10DD914A924F2004951144FB8C73556163A2652E	No	
23	CN = GlobalSign Atlas R3 DV ACME CA 2023 Q2, O = GlobalSign nv-sa, C = BE	771CAE51FDB06185F011B768F6469918854E9EFC5992D626399F8AEF3FC10DB3	No	
24	CN = AlphaSSL CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	7C4E90207B2B7CAEC080426CC469908CB27B925EE3B1C999C22B8568812FDA8C	Yes	
25	CN = GlobalSign Atlas R3 AlphaSSL CA 2023 Q1, O = GlobalSign nv-sa, C = BE	D2DC5AADD24B42C8E2CFDE756AF6B7A43CCAEBF75B9BD29AEE7C28CDE8CF1B4	Yes	
26	CN = GlobalSign Atlas ECCR5 DV TLS CA 2023 Q1, O = GlobalSign nv-sa, C = BE	4C41707D884D7E7D3FDE3DF7C24C7FF6E46F9166651D82C3DA7C4798D7A0824F	No	
27	CN = GlobalSign Atlas R3 DV TLS CA 2023 Q1,	7EC4FDEDD077CDD799A439637FC88AAC9546A7B1AE9F4DB0AD71ACCBC752E7E89	Yes	

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Diestsevest 14, 3000 Leuven Belgium

Main: +32 16 89 19 00 | Fax: +32 16 89 19 09

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	O = GlobalSign nv-sa, C = BE			
28	CN = GlobalSign Atlas ECCR5 DV ACME CA 2023 Q1, O = GlobalSign nv-sa, C = BE	8CFDFAE1C0606B8E381AE6A2D4AFD1E50CEA63B652C2CB7314561D335318 3369	No	
29	CN = GlobalSign Atlas R3 DV ACME CA 2023 Q1, O = GlobalSign nv-sa, C = BE	71D7D6011C10185939C69087DFD44E5AC28DA5A20EA77E650BF983E4DFB9 9D1C	Yes	
30	CN = GlobalSign GCC R3 AlphaSSL CA 2022, O = Globalsign nv-sa, C = BE	CAC12CEBBCCD240269AF886C3C5EC64622881D676C625FCB7D144DCB355 2EBC7	No	
31	CN = GlobalSign Atlas R3 AlphaSSL CA 2022 Q4, O = Globalsign nv-sa, C = BE	8146EAB73A6237D9F0668BA9C8BB4226E8257A54FAC41DB9626EA4F567ED4 D1A	Yes	
32	CN = GlobalSign Atlas ECCR5 DV TLS CA 2022 Q4, O = GlobalSign nv-sa, C = BE	710DE4D226429E1657C15042B3F404DE5BF6DEBFE00F77DFD671AEC67A37 4E48	No	
33	CN = GlobalSign Atlas R3 DV TLS CA 2022 Q4, O = GlobalSign nv-sa, C = BE	93AC271C0758A263A603567CDB6517D8FDEA13882154E0C41A75137C5613A 222	Yes	
34	CN = GlobalSign Atlas ECCR5 DV ACME CA 2022 Q4, O = GlobalSign nv-sa, C = BE	649BFB0BAA0E25655EDB410B6B6E073D5670E00CB76F390BD97EB26ACC0A A44A	No	
35	CN = GlobalSign Atlas R3 DV ACME CA 2022 Q4, O = GlobalSign nv-sa, C = BE	5CB88E6EFF315E275745B3C7288064A56142AB3EF9AC7067F1BB3D298FBAE F95	Yes	
36	CN = GlobalSign Atlas R3 AlphaSSL CA 2022 Q3, O = Globalsign nv-sa, C = BE	89578D72697AC25ABC6F6D382387443965412AC7448F103C9B1D11AB63A55 5CD	Yes	

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Diestsevest 14, 3000 Leuven Belgium

Main: +32 16 89 19 00 | Fax: +32 16 89 19 09

Web: www.globalsign.com | Email: sales@globalsign.com



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37	CN = GlobalSign Atlas ECCR5 DV TLS CA 2022 Q3, O = GlobalSign nv-sa, C = BE	E6C18D6D008C712B3017DE1AE7659418983254B01DE4895AE91F3B29FF482417	No	
38	CN = GlobalSign Atlas R3 DV TLS CA 2022 Q3, O = GlobalSign nv-sa, C = BE	12DCFF9B60269E3B546C3FFB7E74BA58EB7EEBCBF5956771F784F7A582C2EA7A	Yes	
39	CN = GlobalSign Atlas ECCR5 DV ACME CA 2022 Q3, O = GlobalSign nv-sa, C = BE	A8B2A4518A82A0CC0A60B2FB88B946557ADB4FA58458EC7680A77BB0E5334D8D	No	
40	CN = GlobalSign Atlas R3 DV ACME CA 2022 Q3, O = GlobalSign nv-sa, C = BE	EB5E6C1AE30A0F9B8C5769105BA9D6882E4ACCBAA5E2F2F72AC388A2FACA0FEF3	Yes	
41	CN = GlobalSign Atlas R3 AlphaSSL CA 2022 Q2, O = Globalsign nv-sa, C = BE	45F1854530EC037AAACB4B2DE9B4D0FDBFC61888ABD4EE0414183D99E60437AC	Yes	
42	CN = GlobalSign Atlas ECCR5 DV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	15B63CDD772A8D42DC5E48174C1F7E3D40FC82C478DF3A6443C7BD92FBC6D5DE	No	
43	CN = GlobalSign Atlas R3 DV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	735CC386EC1A82E657A5B451C94959611D3C7D0CBB1FD9D9EDB42C7192F8463A	Yes	
44	CN = GlobalSign Atlas ECCR5 DV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	7B063A9CD48767C475AA6BCED4667CDC56068F8B7B895125BC4EB24682EEB606	No	
45	CN = GlobalSign Atlas R3 DV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	2DFE47E144ABB39F9FE451CECD352D9A9BD28982351E8B6524FEB101DBAB1FEC	Yes	
46	CN = GlobalSign Atlas R3 AlphaSSL CA 2022 Q1,	A04FA69E84CCD44F5E526B558631E346B21417D4D1B606A08CADE3928DBF1158	Yes	

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Diestsevest 14, 3000 Leuven Belgium

Main: +32 16 89 19 00 | Fax: +32 16 89 19 09

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	O = Globalsign nv-sa, C = BE			
47	CN = GlobalSign Atlas R3 DV ACME CA 2022 Q1, O = GlobalSign nv-sa, C = BE	92651CD48A0288AA3075354DDC15DC24D0AF8EE67015B68A145970A093475E19	Yes	
48	CN = Alibaba Cloud GCC R3 DV TLS CA 2021, O = Alibaba Cloud Computing Co., Ltd., C = CN	8F3E5D6858B927D284FDB85A1B15875CD78E63B820C20DDC539CCD84B0C1A6AA	No	
49	CN = Alibaba Cloud GCC R3 AlphaSSL CA 2021, O = Alibaba Cloud Computing Co., Ltd., C = CN	7AEDE5374ECA9FF34C5727C10DB982222D753157797449B88364F70EEFA0C24C	No	
50	CN = GlobalSign Atlas ECCR5 DV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	727A9069A3C60D213584E616D5BF55DFD19C71A3976645EA6A73B18F83760D24	No	
51	CN = GlobalSign Atlas R3 DV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	D9E4A803FB498EEE9379FCF90AC3067AE65D098CC77890C37E575E249CD7D7C9	Yes	
52	CN = GlobalSign Atlas ECCR5 DV ACME CA 2022 Q1, O = GlobalSign nv-sa, C = BE	A262F7D653E6C745EEABEBF6672A756B501A82F06708F2B5E77916217037BBCA	No	
53	CN = TK Elevator Atlas R6 DV CA 2021, O = TK Elevator GmbH, C = DE	988D6B2D87BAF43821C4D304BE2B0E8F325DC17B7A220E934F5C5B7BADFF8E1C	Yes	
54	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	EE793643199474ED60EFDC8CCDE4D37445921683593AA751BBF8EE491A391E97	Yes	
55	CN = GlobalSign Atlas R3 DV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	1DD095449FFB3CFF14B2224D596B83FD42F2B47683553C797D11150C918691BD	Yes	
56	CN = GlobalSign Atlas R3 DV ACME	B254F3CDEAF1D29AB53CB439E80FB996F1E90A283E9B5085B8749D18E4F59	No	

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Diestsevest 14, 3000 Leuven Belgium

Main: +32 16 89 19 00 | Fax: +32 16 89 19 09

Web: www.globalsign.com | Email: sales@globalsign.com



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	CA H2 2021, O = GlobalSign nv-sa, C = BE	87B		
57	CN = GlobalSign Atlas R3 AlphaSSL CA H2 2021, O = Globalsign nv-sa, C = BE	11B6DB5B68DCDF34479AE7E7B7BBAA7165905577AD83D474F2BB9717CE24 4CEA	Yes	
58	CN = GlobalSign Atlas ECCR5 DV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	6916DA916EE1B1E98CB31EE94730EECD7F2C077965BDB8D4E16A3B81C58A 29B6	No	
59	CN = GlobalSign Atlas ECCR5 DV ACME CA H2 2021, O = GlobalSign nv-sa, C = BE	61B30CEAEA0C8C6397C3599829809CB73CA8F817BB9CDF000D7453E44243 8028	No	
60	CN = CUISEC GCC R3 TLS DV CA 2021, O = 联通智慧安全科技有限公司, C = CN	692FE1B8BA2699531DE4CD2F52AE38FA119AB01F4B31AB78FE6DB3FDF03A 7031	Yes	
61	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	BFDF4CF3F143AD0DB912D8AB3A7C12F617B9EA60CE8B1F4E44F74270FB21 B19B	Yes	
62	CN = GlobalSign Atlas R3 DV ACME CA H1 2021, O = GlobalSign nv-sa, C = BE	70F5C63C4F112837AB99870B0ECB5D722EEA0B0D0DDB9320B98B99B9BD13 7866	No	
63	CN = GlobalSign Atlas ECCR5 DV ACME CA H1 2021, O = GlobalSign nv-sa, C = BE	E7757BB0C4942ADC108D092A17B812B1043E06A094DD5E214920325556FC6 924	No	
64	CN = GlobalSign Atlas R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	B65FE6A1BF2D52FF68B7D3E9D0F06B300A1C3F248309B70405CA7BDEC054 BDDD	No	
65	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa,	8C2410F76B149CA062B420AB611B6BF0A06E6E799A29587E4D4EC16D0537B 7EA	Yes	

GlobalSign NV/SA

Diestsevest 14, 3000 Leuven Belgium

Main: +32 16 89 19 00 | Fax: +32 16 89 19 09

Web: www.globalsign.com | Email: sales@globalsign.com



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	C = BE			
66	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	37D080A5E9A526663E56EE20DE4BD9F7952DACC341491439080167AD5DD18CAC	Yes	
67	CN = Valid Certificadora Digital SSL DV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	FCF26FBC1B2A25A76AB4EA92B2CBEF367E0131091C802DA49898F78AE54B30F8	Yes	
68	CN = Valid Certificadora Digital AlphaSSL CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	04DE47A9CDD3091CFC5EF6AAA3B7D4B53E13C4D4DC02364F6C0B408742EC3C76	Yes	
69	CN = Soluti CA - DV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	5C452334D9C9C9A2EA42CC77A7165E1795EE9D84EB70CB784B47EA9D92A582D9	Yes	
70	CN = GlobalSign Domain Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	09BC1B137C031239EF788673E94EB17F5F3ECAB07D3ADBFB485E75ABFAAF3B9A	Yes	
71	CN = GlobalSign GCC R3 DV TLS CA 2020, O = GlobalSign nv-sa, C = BE	762538439509C411C437D3C567563E1378671281FC4A1464ADD031870843676E	Yes	
72	CN = AlphaSSL CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	5A817EADA4AD78734EBB2CF674352D97F4352290C40EAF10E764B1EAC075B0E6	Yes	
73	CN = VTB BANK GCC R6 DV CA 2021, O = VTB BANK (PJSC), C = RU	95BA96F72CB314ECD05CE0FD75D886381A368C8F5869F04BDD3024893F4E393B	No	Revoked on April 06, 2022
74	CN = GlobalSign Atlas ECCR5 DV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	6F335DD7CD4AAA1D9140F290E9E7B3498A7CC35A244AA300E146BA2D9D02B960	No	
75	CN = GlobalSign Atlas R3 DV TLS CA 2020-12,	59F5FF92B608A0119FF1DD7C603E0EB16F4FEAD9D4717AC3BC62D286AE399CDA	No	

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	O = GlobalSign nv-sa, C = BE			
76	CN = AlphaSSL CA - SHA256 - G2, O = AlphaSSL	933E4A2D8DB1FF9FF0E508EA7F1637E074F660FE6F365A2233DFC2B52C889D98	No	
77	CN = GlobalSign Domain Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	669E7727A92BE72D9718E16922DC1BC1492B1AF33FA4793E68D8778F19A2E BE0	Yes	

OV TLS Issuing CA

#	Subject	Fingerprint SHA-256	Issuance during the period?	Additional information
78	CN = GlobalSign Atlas ECCR5 OV TLS CA 2023 Q2, O = GlobalSign nv-sa, C = BE	7CFB624140EFD55D44A324D10721CAF48DC64755DB6D11920F8D2B512F7E B70F	No	
79	CN = GlobalSign Atlas R3 OV TLS CA 2023 Q2, O = GlobalSign nv-sa, C = BE	EBA6880A6D960A2692A05AA539EF1C8EC03B3C455308DEE5A0F6A4DC050E DEA3	No	
80	CN = GlobalSign Atlas ECCR5 OV ACME CA 2023 Q2, O = GlobalSign nv-sa, C = BE	6564BF50F3520375B11F2A5BD432BB44E810ADC7EB2C4AD22F9CBE0C32B4 6162	No	
81	CN = GlobalSign Atlas R3 OV ACME CA 2023 Q2, O = GlobalSign nv-sa, C = BE	2127DBB280A2B296039D17E2E642EB9346C33990AB4298A664ADCA002FF67 FFD	No	
82	CN = GlobalSign Atlas ECCR5 OV TLS CA 2023 Q1, O = GlobalSign nv-sa, C = BE	BA2F574809F5FD3638F15A7E42DB3B465C8D66297B26451457F1633B7F762F 35	Yes	
83	CN = GlobalSign Atlas R3 OV TLS CA 2023 Q1, O = GlobalSign nv-sa, C = BE	D413C51E43C6880D9F39A295C496D8B50B1F6A446363A7C1AFACA9B510E5 C300	Yes	

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84	CN = GlobalSign Atlas ECCR5 OV ACME CA 2023 Q1, O = GlobalSign nv-sa, C = BE	4D048713242889EFF7F69C21359C6A9F211DD52C19E9BF3EAF3FCF5C8D178 ACB	No	
85	CN = GlobalSign Atlas R3 OV ACME CA 2023 Q1, O = GlobalSign nv-sa, C = BE	B22FF48B90A07C0AE65DD09AB80DD44AEF1912421DFFB7301583C24DCB63 7692	Yes	
86	CN = GlobalSign Atlas ECCR5 OV TLS CA 2022 Q4, O = GlobalSign nv-sa, C = BE	D54CD0DADA36808945D1E4E414322E00AB09B9A800DA32D6C2B34B2CA12B 9CEA	Yes	
87	CN = GlobalSign Atlas R3 OV TLS CA 2022 Q4, O = GlobalSign nv-sa, C = BE	B7DD3E11DB6F04EF6BD1E98768C6805CCCCD1D37F8BD858B6D2164579714 7784	Yes	
88	CN = GlobalSign Atlas ECCR5 OV ACME CA 2022 Q4, O = GlobalSign nv-sa, C = BE	C7AC7C5B8162E0F0931D1B2F7740C2284FF1595C10E82DB1EE3A1258F0A74 06F	No	
89	CN = GlobalSign Atlas R3 OV ACME CA 2022 Q4, O = GlobalSign nv-sa, C = BE	FA6331BA628DF599BEB2243BDE3A15098587704E956FE50A7933ABC0FCF79 EF7	No	
90	CN = Prodrive Technologies GCC R3 OV TLS CA 2022, O = Prodrive Technologies B.V., C = NL	1005370ED276B0CEF39244E9E699CE4807BF9ADE05BFA59F263809FB4606B 72C	Yes	
91	CN = GlobalSign Atlas ECCR5 OV TLS CA 2022 Q3, O = GlobalSign nv-sa, C = BE	E68C3376F010219CCA14E337F33183EF9D861E573A9D76287F3AAAD4D04FA 38F	Yes	
92	CN = GlobalSign Atlas R3 OV TLS CA 2022 Q3, O = GlobalSign nv-sa, C = BE	29E93053769D4D1BAB841B8F5C2603BED5E0B82F339670869566892146E891 41	Yes	
93	CN = GlobalSign Atlas ECCR5 OV ACME CA 2022 Q3,	E4C2D8C6E54ECE1C996A305972B1AE0B064F105BE06CFD7295FD2DAE33B9 7E1A	No	

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	O = GlobalSign nv-sa, C = BE			
94	CN = GlobalSign Atlas R3 OV ACME CA 2022 Q3, O = GlobalSign nv-sa, C = BE	F06E2C3D05AF608C7BACB6366F7A47A017ADEC22F712BD417335396CB8B5 55BE	No	
95	CN = GlobalSign Atlas ECCR5 OV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	A816AFFF746EA0F0A0A064C0432F9D2B7D0CE79EC2D1E9940F4A186A25182 284	Yes	
96	CN = GlobalSign Atlas R3 OV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	AFDB3C396D85D19FBE58206DF0659EAE614C4AB18F5CCF20B783AAF0BBE 96A03	Yes	
97	CN = GlobalSign Atlas ECCR5 OV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	CB2C685CB214DCD2F2CDA6E2C155AAF21A7E134BC0BCE808B1130C45912 5B0A4	No	
98	CN = GlobalSign Atlas R3 OV ACME CA 2022 Q2, O = GlobalSign nv-sa, C = BE	D50B20ADFF959BFBE83B6FD1FAB36FDE7941B960CFC6839AAC63B9FFDB 46413	No	
99	CN = GlobalSign Atlas ECCR5 OV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	F9D3214AD6F5D6D2B3C8161F96028B76812B058614A66786B92C8FEBDAC02 0EE	Yes	
100	CN = GlobalSign Atlas R3 OV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	536A35A3FA630379CF3B4D4B4E1395AF9CFED2243138E634E4369A31E2872 843	Yes	
101	CN = GlobalSign Atlas ECCR5 OV ACME CA 2022 Q1, O = GlobalSign nv-sa, C = BE	218C470B78B02D39B84FC6892F5A1FE9C99D6B9A6B8B7471E039EDCFCA91 004C	No	
102	CN = GlobalSign Atlas R3 OV ACME CA 2022 Q1, O = GlobalSign nv-sa, C = BE	EA532E6D78FF00FD4F56447F7E0A47D239D945424B77CF0D15A795CB4EE60 2BD	No	

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103	CN = GlobalSign Atlas R3 OV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	4E1A564C71A04288970E53C037D1CFC25C1F9BEFC5276CF3BD501EE262F04202	No	
104	CN = GlobalSign Atlas ECCR5 OV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	90AF1B61A082662A639CAA68C6A3FB41EBBA3760C351A4A1E89FB6DACAD486FC	No	
105	CN = Alibaba Cloud GCC R3 TLS OV CA 2021, O = Alibaba Cloud Computing Co., Ltd., C = CN	31A096A1CB918876EE57C85B2349FC9CC2C2CB4FCF9BDD37787CE9DA57AF4790	No	
106	CN = CUISEC GCC R3 TLS OV CA 2021, O = 联通智慧安全科技有限公司, C = CN	C7F145D474F5DC20B27A64E1696179522469078B333FE8FF887B97CE7805E362	Yes	
107	CN = ATT Atlas R3 OV TLS CA 2020, O = ATT Services Inc, C = US	DC2728331312E75C4D7B442F3BDDA790CB77A9D6AC854D5BCE18AC43CA59909A	Yes	
108	CN = CrowdStrike GCC R3 TLS OV CA 2020, O = CrowdStrike Inc., C = US	78CB512DE48CEDCD7134DF57C973C1E1A07692B8F542A44ACEBB8BB776D55D59	Yes	
109	CN = DPDHL Global TLS CA - I5, O = Deutsche Post AG, C = DE	32A4E554E363116FE48E22F01DAC1736752A71C720F99F462D565022D3BAD07D	Yes	
110	CN = RNP ICPEdu OV SSL CA 2019, O = Rede Nacional de Ensino e Pesquisa - RNP, C = BR	88FC18BD071BE1FBC53FFBC801F03F5B2C4DA87BBA0C098E2B4808F19EAB05FE	Yes	
111	CN = SHECA OV Secure Server CA, O = Shanghai Electronic Certificate Authority Center Co., Ltd., C = CN	AD7B58C3C5D9586BE5B62799C2792C4111C9852A96F7B0607221265713957E1C	No	
112	CN = Valid Certificadora Digital SSL OV CA 2018, O = VALID CERTIFICADORA DIGITAL,	6B4F9DE13678846730D50E914A08E7BE9B742CA3A0A7D5393367830B93A6F553	Yes	

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	C = BR			
113	CN = Soluti CA - OV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	AB74B1411AD23E2227FB88A2A9304A1A45A5C4840B3635F1036A46E8374279 AC	Yes	
114	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	E0C2EBD1F6BAD4FEAAE31A3107E69ABEE902DB38B9DFBE33F0570BDA349 4C20A	Yes	
115	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	4B7334E1D8999822BAFA8FF6888125389B18A4E5AB26FFA624C7F68FDC81F 0CB	Yes	
116	CN = GlobalSign ECC CloudSSL CA - SHA384 - G3, O = GlobalSign nv-sa, C = BE	B0CD6AE7B9E20EC5F830FEE01F666D5D90E6E229D06BC46A30ACCEDFEC8 89648	Yes	
117	CN = GlobalSign RSA OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	B676FFA3179E8812093A1B5EAFEE876AE7A6AAF231078DAD1BFB21CD2893 764A	Yes	
118	CN = GlobalSign Organization Validated ECC CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	65EEC0CC6C970CC1CD73659115DC8D904E6F12E6DC8FD4DDA39D54CB302 24780	No	
119	CN = GlobalSign ECC OV SSL CA 2018, O = GlobalSign nv-sa, C = BE	87C71553445EB3C33C3E0710711B99E9C7773F04D91AC38A9F4C082EE2410 1EA	Yes	
120	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	74EF335E5E18788307FB9D89CB704BEC112ABD23487DBFF41C4DED5070F2 41D9	Yes	
121	CN = GlobalSign Organization Validated CA - SHA256 - G4, O = GlobalSign nv-sa, C = BE	1E1741A12EB8DA2BD76EA96C04F520359839710F620E80952F48DD0240A12 CD8	Yes	
122	CN = GlobalSign Organization	699D54B7482A5D329331EA0415CC2EDCD60FDA01D19E71D054196BCE0677	Yes	

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	Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	735C		
123	CN = Trusted Root TLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	91F19CE503C9FE7FF9587D8EFBEF7315AAEE77DC2D14526126493B4AD6FE 801F	No	
124	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	1C9737E968AD9DFF8D8D7FCF996A144BB97851A19011A0190C943CAE8D43 CFE0	Yes	
125	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	E155EBF96334E79AE2E287D55CFC9185DE24935A653F13C5BA05AFF818771 BC6	Yes	Revoked on July 07, 2022
126	CN = GlobalSign CloudSSL CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	C2E4236DB1B757B51B77921388EFA823E6A600FD4BDA30B63AB77886F2561 8B7	Yes	Revoked on July 07, 2022
127	CN = GlobalSign ECC384 SSL CA - G3, O = GlobalSign nv-sa, C = BE	DC6C44AC8A3CD5C3451273F4431526B2EF666062EE763258A928F60BD08E3 9FE	No	Revoked on July 07, 2022
128	CN = VTB BANK GCC R6 OV CA 2021, O = VTB BANK (PJSC), C = RU	312AB012744F859EEF8AE0FA25D0259E89DAAF51B94FAC67DFC61060F0DB 2207	No	Revoked on April 06, 2022
129	CN = GlobalSign Atlas ECCR5 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	2EB8A1317288F08233E6883CEBE67EA6A0989E22ACA42C58D59F5A834E02C 513	No	
130	CN = GlobalSign Atlas R3 OV TLS CA 2020-12, O = GlobalSign nv-sa, C = BE	A6032CC352F1E2E3628E162A3047BC7D647E2D601A2C0F26CAAF9AAF7A54 239C	No	
131	CN = GlobalSign Organization Validation CA - SHA256 - G2, O = GlobalSign nv-sa,	0B339212D7CFF17A2C59E35669B58E77350133750A78DA9404770EDD470DE F76	Yes	

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	C = BE			
132	CN = Prodrive Technologies B.V. OV SSL Issuing CA, O = Prodrive Technologies B.V., C = NL	580BB3AB127F5E13E940AE7365E3C69A62AD204D7FDFA451592FE7C47DC0 2A95	Yes	
133	CN = AC Defesa GR3 OV TLS CA 2023, O = Ministerio da Defesa, C = BR	23D5EFBFB41CE7B1F30BAB8A8F64AF85EDBB5D7A49C08D616DE4C47CAD B03597	Yes	

EV TLS Issuing CA

#	Subject	Fingerprint SHA-256	Issuance during the period?	Additional information
134	CN = GlobalSign Atlas E46 EV TLS CA 2023 Q2, O = GlobalSign nv-sa, C = BE	B95D0B51AAB7504D0F8780173B8C395DD718371BA61ADE30C11B1B77B33E C01B	No	
135	CN = GlobalSign Atlas R46 EV TLS CA 2023 Q2, O = GlobalSign nv-sa, C = BE	BA0DF2D121A739E0002AA19B5B2400F4204A324F28669356CEB0B1B2DADF8 B86	No	
136	CN = GlobalSign Atlas R6 EV TLS CA 2023 Q2, O = GlobalSign nv-sa, C = BE	AEDCC1DBCB44D96F692BD451D76A3229839151D5BE82FE8D0D1B23030F48 FB19	No	
137	CN = GlobalSign Atlas E46 EV TLS CA 2023 Q1, O = GlobalSign nv-sa, C = BE	8D1EE31E047C9E604CF0603A9076DC45A7BD4D4AF4584D2156F03752626D8 A6E	No	
138	CN = GlobalSign Atlas R46 EV TLS CA 2023 Q1, O = GlobalSign nv-sa, C = BE	A02C04DAB0B317A4910753F2F74E3C78B39AD210E5CB72870B278122AD35B 265	No	
139	CN = GlobalSign Atlas R6 EV TLS CA 2023 Q1, O = GlobalSign nv-sa,	1083D57464FD5128B80B22965FA205E13168DDFCCDF17A7095F3BE0ED0AB 3A91	No	

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	C = BE			
140	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q4, O = GlobalSign nv-sa, C = BE	A34B15C8D1C296106ACBC14680160027B1FA49114C21BD99B3AE59BD8C4C7B54	Yes	
141	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q4, O = GlobalSign nv-sa, C = BE	B050000CF749EC658A6B9ED8D4C3A393435644A327603FB036327E32A47BFBA4	Yes	
142	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q4, O = GlobalSign nv-sa, C = BE	C1262AC6412075B2513AE5E563FCCEDB4B3E59B812695EE0CD87223A2C2D048B	Yes	
143	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q3, O = GlobalSign nv-sa, C = BE	4006CDFF6D8D52DC090FF5382B9C30CEA8CC5005DF2D5E8203CD67921797750D	No	
144	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q3, O = GlobalSign nv-sa, C = BE	0ED5AA0061D09B703E1B3150FB6367870BBF245CCEED4FE08F2DBE4201723A8D	No	
145	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q3, O = GlobalSign nv-sa, C = BE	0C92594BD394B4887A1D66EC5E631FFAD3BA4B07FE2EB6D15D2F5FEE4C90C454	No	
146	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q4, O = GlobalSign nv-sa, C = BE	B51D85A08FACB06F97FDF58563749003033EE77DD583986204499197CA8E7077	No	
147	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q3, O = GlobalSign nv-sa, C = BE	29C840D062AC862DB4D20928D2AEFD83B35A46BD4533995FF2EFD3E3EE8CFFD9	No	
148	CN = GlobalSign Atlas R46 EV QWAC CA 2023Q2, O = GlobalSign nv-sa, C = BE	A40C91E466D62CDB32B7139E8748F0EB5A817F6BB8A9F999A7A9BF4306D6D5D5	No	
149	CN = GlobalSign Atlas R46 EV QWAC	A7DCFD3D09377C39BA3A7F630E052EC593E9726D1DA57229E599D15AD6DC	No	

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	CA 2023Q1, O = GlobalSign nv-sa, C = BE	CA7B		
150	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q4, O = GlobalSign nv-sa, C = BE	2DA52277662DC1C779E2439FAF58F85F87DBA73E0F16F1B0EB310A4919CFC 3BA	No	
151	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q3, O = GlobalSign nv-sa, C = BE	430B172A6F7146B16A75BCC5BFA1D60C61DEEAA2ABAC61B4394E4A6B291 C48CC	No	
152	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q2, O = GlobalSign nv-sa, C = BE	F4C5F3956379493830DE7456E0A55D6FBC1B8EA08B756488FF005B6C394A6 9C7	No	
153	CN = GlobalSign Atlas E46 EV QWAC CA 2023Q1, O = GlobalSign nv-sa, C = BE	F9120A71D50697B9992A7357A0A9A0DDC4BFC3598FCB4F01642964824D3CF 276	No	
154	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	5E2A73EE6069DE65322DCF0430176B385F5238C296EE4392E7ED7DB4BE908 A40	No	
155	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	398DC562DC098CF75F3A151216E583380C279444B0D63E766D9FDF6F47D04 C60	No	
156	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q2, O = GlobalSign nv-sa, C = BE	256602DC8A8041B2EDC0CAE611A6A98D9B39AD4DE3E19F62DC0A0A1958B 72271	No	
157	CN = GlobalSign Atlas E46 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	9C9D5E986B5BEA7A1EC8457EBCAA600D2435803B91FEC97C4E5043BE6742 D4B1	No	
158	CN = GlobalSign Atlas R46 EV TLS CA 2022 Q1, O = GlobalSign nv-sa,	4CFA14BC7E8F48D4677B0604777AF76AB0C55B326F8B97BA95F6ACE115C0 5F16	No	

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	C = BE			
159	CN = GlobalSign Atlas R6 EV TLS CA 2022 Q1, O = GlobalSign nv-sa, C = BE	C9A74009DAE194A40BD122ABD015D44E93CB7879B0949054A31042EF4C99E5D6	No	
160	CN = GlobalSign GCC E5 UK EV QWAC CA 2021, O = GMO GlobalSign Ltd, C = GB	0966A88729C938F9DCD65BB3C63B608618EAE5183ED1FED752B323089687A20E	No	
161	CN = GlobalSign Atlas R6 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	0ABB1CDE53CCAC170483DAFCD3CDB9F2622BA7E47D31EC0FD3DB271B4AA5303	No	
162	CN = GlobalSign Atlas R46 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	385AA00A1848F807F665561E888B0D4F69614052D825F3C33970E00F4C3658DD	No	
163	CN = GlobalSign Atlas E46 EV TLS CA H2 2021, O = GlobalSign nv-sa, C = BE	44E683576E1C960D784D17BB2325C25CF1BE4E20470C31D9D73CACED496C95C9	No	
164	CN = CUISEC GCC R3 TLS EV CA 2021, O = 联通智慧安全科技有限公司, C = CN	9BFABD8D91284500B4D412C5725C87CB3A013F940FF1E62810E6929C69393ED9	Yes	
165	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q1, O = GlobalSign nv-sa, C = BE	F2BC379B1EF45624D8F822B6E359502D470F384E53C082F7AE21869C13A5D345	No	
166	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q2, O = GlobalSign nv-sa, C = BE	250AFA50B60D30D1217D00E7DD8CCE6B51F5C0B6A6369324842C37DEB44F9715	No	
167	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q3, O = GlobalSign nv-sa, C = BE	9D51DC2750A13BD627D99FDCC720D1904FE81059110BB9DE11B039A4B2ECA531	No	

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168	CN = GlobalSign Atlas R3 EV QWAC CA 2022Q4, O = GlobalSign nv-sa, C = BE	451FA3A18064B4DD03ADFE8B8BBF16258CB98A1A6FEE5D6B0A37C98A0B5E6DAE	No	
169	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q1, O = GlobalSign nv-sa, C = BE	4D81D18D57CDA96440CBFD0FA05CC387B7C69DE3A9E68B4036E1168EE2B7BD21	No	
170	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q2, O = GlobalSign nv-sa, C = BE	ED2B6C6F6C669EEC6C158B0FD61E4454185C42842523866F3B3EE9B1F0F62882	No	
171	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q3, O = GlobalSign nv-sa, C = BE	0DA5820FDFE4FCF9B9F94C140DB0F06D670D86FCB1BDD9597BCA8731532F353C	No	
172	CN = GlobalSign Atlas E46 EV QWAC CA 2022Q4, O = GlobalSign nv-sa, C = BE	4EF99E6A8B14F69938715371B1D853472534CBF595A743CE993E7B386F99B895	No	
173	CN = GlobalSign GCC E5 EV QWAC CA 2021, O = GlobalSign nv-sa, C = BE	0DD2C7E0AF8200F49F4192A89AE634D4CE41B80C63B0629CC68E538C316F020E	No	
174	CN = GlobalSign Atlas R3 AlphaSSL CA H1 2021, O = Globalsign nv-sa, C = BE	1ABC5AD5BC3911A5B4A91E42BBA3212E2AA3DC80147EFE1D49572E4BE0532633	No	
175	CN = GlobalSign Extended Validation CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	AED5DD9A5339685DFB029F6D89A14335A96512C3CACC52B2994AF8B6B37FA4D2	Yes	
176	CN = GlobalSign ECC EV SSL CA 2018, O = GlobalSign nv-sa, C = BE	8F19FFE02FC795ED70765D1436ADDF772FE0F0773DA436EDBDB42A2E30E2E828	Yes	
177	CN = GlobalSign GCC R3 UK EV QWAC CA 2020,	A33017D9DF494C09D58709107403AEE461B9461E81BA395C28C36693C27D1986	No	

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	O = GMO GlobalSign Ltd, C = GB			
178	CN = GlobalSign GCC R3 EV QWAC CA 2020, O = GlobalSign nv-sa, C = BE	D4A5941C7141ED1949A0C6CE9DD45A0AB94DC337902EB0A1209852738EEB E854	Yes	
179	CN = Valid Certificadora Digital SSL EV CA 2018, O = VALID CERTIFICADORA DIGITAL, C = BR	8AEFE8D88BE87A30B19C60C5BD0FB5E9FBCD15D5582D5FC9A7499578D68 DCEC0	Yes	
180	CN = Soluti CA - EV, O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A, C = BR	11FBA4A7EE579C70E1D57F9F9B6A8C209E1219C4F1D3846F83FFCE74E9E5 E2CE	Yes	
181	CN = GlobalSign Atlas R6 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	BCE7091355D2417A37F8CFE2AC8F17C2748888BA0EEA90000FC980ECFC2D 041F	No	
182	CN = GlobalSign Atlas E46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	364DF25CC88F6FB0202C02CD9B8EA02DFE8AC02341EFF5A9DFFC5BE159E D5991	No	
183	CN = GlobalSign Atlas R46 EV TLS CA 2020, O = GlobalSign nv-sa, C = BE	E1E15D289697AF3285BF34112A3E60BC11C0C8122DD2B9B3420AB2E5E5788 3CA	No	
184	CN = GlobalSign ECC384 EV SSL CA - G3, O = GlobalSign nv-sa, C = BE	15549187490314F5177641F0BEB32634AA1230EB2CF2C28AD9C73914FB18AB A0	No	Revoked on July 07, 2022
185	CN = VTB BANK GCC R6 EV CA 2021, O = VTB BANK (PJSC), C = RU	52C09A2CA179368703A1857004CD5A3C87D3BDAC3A558E143EF3508FBEEB 1032	No	Revoked on April 06, 2022

Non-EV Code Signing CA

#	Subject	Fingerprint SHA-256	Issuance during the	Additional information
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			period?	
186	CN = GlobalSign GCC R45 CodeSigning CA 2020, O = GlobalSign nv-sa, C = BE	74D499A72D0BA5D4DDEC55805ECF157C891E45E5D490A19DC5FD4476954E774B	Yes	
187	CN = GlobalSign CodeSigning CA - G3, O = GlobalSign nv-sa, C = BE	4047C9D69260C07213BCB8608A7EC5E2838A56B79F67847812EAC0778D0D27F1	No	
188	CN = GlobalSign CodeSigning CA - G2, O = GlobalSign nv-sa, C = BE	FFFE077503FD72F0E5338B0A7B4E218E7D1FF82E493E7E852AE51AA1C7585D17	No	
189	CN = GlobalSign CodeSigning CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	BE40813869AB27A071D12AD6A8830583EBC3B618E3F2346359F4B11A1C9434EE	No	
190	CN = GlobalSign CodeSigning CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	FB54EEA9BCE8E9EA9782154F3D414277FB709F49B947D73978AC278546C2CE03	No	

EV Code Signing CA

#	Subject	Fingerprint SHA-256	Issuance during the period?	Additional information
191	CN = GlobalSign GCC R45 EV CodeSigning CA 2020, O = GlobalSign nv-sa, C = BE	CD0E144DD10BAC221FE2FB901058D16450A0578B3C47C770908F2E9ADA28EF12	Yes	
192	CN = GlobalSign Extended Validation CodeSigning CA - SHA256 - G2, O = GlobalSign nv-sa, C = BE	1E864278C20881B671C0C6D2E14B61150AD1F13CF92C6EC14B550DCBC47E1541	No	
193	CN = GlobalSign Extended Validation CodeSigning CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	DD038E87E0B4D2C369680D3DE78638AB39FC1D7E50632996921101768DB8D4D8	No	

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Timestamp CA				
#	Subject	Fingerprint SHA-256	Issuance during the period?	Additional information
194	CN = GlobalSign Atlas E46 TimeStamping CA 2022, O = GlobalSign nv-sa, C = BE	FE7C73361732C6C64739FA83A1D7C781EE1AEA990A605AD2FC72FB9586A452FC	No	
195	CN = GlobalSign Atlas R45 TimeStamping CA 2022, O = GlobalSign nv-sa, C = BE	0C74179FDE6EFAD4A052C55DF083048430560483706179F305102E0C74B96C CB	No	
196	CN = GlobalSign E46 AATL TimeStamping Root CA 2021, O = GlobalSign nv-sa, C = BE	2A34A0225DBC82845E8C5F2F13897179A9B2D91E74D93BDE0021F4F89804E 59F	No	
197	CN = GlobalSign R45 AATL TimeStamping Root CA 2021, O = GlobalSign nv-sa, C = BE	3A6224E6EF98D0C4770C229E89CFA346623DF5A250D4B68D04CD5DA4BD85 C4CE	Yes	
198	CN = GlobalSign Partners TimeStamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	2A015531A5F3A4CE589BD853C71DD069587322F574D85C9C9B9F9DF8F86C0 75E	Yes	
199	CN = GlobalSign TimeStamping CA - SHA384 - G4, O = GlobalSign nv-sa, C = BE	F642418E4D0C63DEC785C960EFA68BA745F38851744EF81F225CB89305314 D50	Yes	
200	CN = GlobalSign Partners TSA CA for AATL, O = GlobalSign nv-sa, C = BE	7E8F914119BB1090D6204908E5AE1F40BE24C1491CD7D5CFB6A93618CBC0 0FD9	No	
201	CN = GlobalSign TimeStamping CA - G2, O = GlobalSign nv-sa, C = BE	C977923C771E1A66C925A2B6F501732E678DC9887AFE6BFAAC039D1D9A71 F0EC	No	
202	CN = GlobalSign TimeStamping CA -	9BF9496777D14425ED0086C1BB2C0707B62A61C194C5162E4F07637AFF166	No	

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	SHA256 - G2, O = GlobalSign nv-sa, C = BE	B76		
203	CN = GlobalSign Timestamping CA, O = GlobalSign, OU = Timestamping CA	D0CAE6947BC77F0B495CA808D6CDE685FCD20225E1E530B635B113ED40728EF3	No	
204	CN = GlobalSign Timestamping CA - R3, O = GlobalSign, OU = Timestamping CA	61C1067083AE044EF1D649CE590BBF09D9D739E025DA8D195F71CFAAD6EBAE69	No	
205	CN = GlobalSign Timestamping CA - G3, O = GlobalSign nv-sa, C = BE	95C6A747DD0BC755A1941827E894B8083592241B792541E2EB1B30FB9B13F57F	Yes	
206	CN = GlobalSign Timestamping CA - SHA256 - G3, O = GlobalSign nv-sa, C = BE	BE33D1C57EBDDD927B57BDB604BE457B552FE568E7F3DCBA093C39ED1C30A239	Yes	

Other CA

#	Subject	Fingerprint SHA-256	Issuance during the period?	Additional information
207	CN = Hongkong Post Root CA 3, O = Hongkong Post, L = Hong Kong, ST = Hong Kong, C = HK	00482341B104A0DE6E0F1D508DB84CB514F7494FE04982133A5C750136C55DC8	No	Hong Kong Post Audit Report (*)
208	CN = GTS Root R1, O = Google Trust Services LLC, C = US	3EE0278DF71FA3C125C4CD487F01D774694E6FC57E0CD94C24EFD769133918E5	No	Google Audit Report (*)
209	CN = Bechtel Atlas R45 SMIME ICA 2022, O = Bechtel Corporation, C = US	6390D54F26A13B6511B25130EC0580987AFAB843F15A1E16695AA456BD36C043	Yes	
210	CN = RT2 Atlas Client Authentication ICA 2022,	086E13C1B237ABB0B2FD6A3424419E6F241BBB849CB60054F2309F1480592B5F	No	

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	O = Real Time Technologies, Inc., C = US			
211	CN = Clayco Atlas R45 SMIME CA 2022, O = Clayco, Inc., C = US	5B92AF30724309D82A1DEDDFB0975A336A7C7A45DDCAB6E0D24A48EBC49575B9	Yes	
212	CN = GlobalSign Atlas E46 Qualified Timestamping CA 2022, O = GlobalSign nv-sa, C = BE	FE0FC91A867975373ED2872CB3BD3DB708256D7C3A978486AF001CC008C1EBCC	No	
213	CN = State Oil Atlas R45 SMIME CA 2022, O = State Oil Ltd, C = GB	19B57472F46A480A721F03275647D4E5DF7FC790BCF7603DD5C8F9F35F7DE117	Yes	
214	CN = GlobalSign GCC R45 PersonalSign 3 CA 2022, O = GlobalSign nv-sa, C = BE	9153DB840DA0BDD27A0A2FCA32E4E278AF54C3580F3C45FACA402C70E6E4DA5C	Yes	
215	CN = SWIFT Atlas R3 SMIME CA 2022, O = SWIFT SC, C = BE	A4819D67CC975AC71BC9315FA08DFA5AFFB9A537D79A6865FEF574F28ED5B52B	Yes	
216	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Remote QSCD Delegated RA CA 2022, O = GlobalSign nv-sa, C = BE	AD304215A70BF5D06E84973BF49862F10CFF490DA9C97D1D6FA6934F8E3C98AF	No	
217	CN = AbbVie Atlas R45 AATL CA 2022, O = AbbVie, Inc., C = US	6FD7EEFF0B14D389FC8115B4FCDF64EED38F29573F0B3969C71BEB0FE55C3F5B	No	
218	CN = GlobalSign Timestamping Root E46, O = GlobalSign nv-sa, C = BE	24E9A5B561CDFEFEEEB73245DAC1B04465C513F936621D21902DD8A58FD6C461	No	
219	CN = GlobalSign R45 AATL Root CA 2020, O = GlobalSign nv-sa, C = BE	B296DC3BCF451217D7AD4F84FB8EE25CC92FC659CAFA0EB4A8B5B4DB3D0215C2	Yes	

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Diestsevest 14, 3000 Leuven Belgium

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220	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	F5E9E2705AB0C93E80652D2DEB573AB01D6700597BDA122BC08BA97FDC71 3368	No	
221	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified Authentication CA 2020, O = GMO GlobalSign Ltd, C = GB	1DBC5465732AC3232FF12641C2898EA0F239D06186DD1B085496ABC6E5BD0 7F2	No	
222	CN = EUSPA AR45 SMIME CA 2021, O = European Union Agency for the Space Programme (EUSPA), C = CZ	A2F5C0CD7364E1123B21556FB7999BEA8E9F0AEF399A3544CD12EB83C238 BA1E	Yes	
223	CN = COMESA GCC R45 SMIME CA 2021, O = Common Market for Eastern and Southern Africa Secretariat, C = ZM	C50DECEFBBC246CB07F4FEB282A7633337721F787F8EB68D897F05284FF94F A8A	Yes	
224	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Authentication CA 2021, O = GlobalSign nv-sa, C = BE	9BBAB193D19DBA9BA86497C633E89EB421131D29B64129B449832BEC2CC8 259F	No	
225	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified Authentication CA 2021, O = GlobalSign nv-sa, C = BE	102DCE6691C0B6DF7CD2521AF88C3546D7582A2CB7DAAD087F9C7DB2AF8 351C5	No	
226	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Non QSCD Signing CA 2021, O = GlobalSign nv-sa, C = BE	96B67EB3D828223480405557E3993A3B1781D527294D1978EB0C4ABCC6F40 AF2	No	
227	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified QSCD Signing CA 2021, O = GlobalSign nv-sa,	7A25E3C7B2B3325C5E65D01B9F6FF474ADE4BBCC8CCA3D7F29655352386F 36B7	No	

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	C = BE			
228	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified QSCD Signing CA 2021, O = GlobalSign nv-sa, C = BE	625597092D6B09F1AB74ECF29F38E0E1C41AF487594B23489A8A604687ACA D99	No	
229	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified Non QSCD Signing CA 2021, O = GlobalSign nv-sa, C = BE	DBFF9EBA713FF77B60D52B37F35C5AD52D9CD06412F3BAD9128D77D95C7 B887E	No	
230	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified Authentication CA 2020, O = GlobalSign nv-sa, C = BE	5F2155F9A7444615C673994CDA99E963BB558A367B20305520E93D15EF3AF4 E8	No	
231	CN = NAESB GCC R45 Client Authentication CA 2020, O = GMO GlobalSign Inc., C = US	5EBD04144508FADD1B9DB79FF62B826D6FF893987B1534C0F8EEC2261D6A C452	Yes	
232	CN = InComm Agent Solutions Inc Atlas Issuing CA 2020, O = InComm Agent Solutions Inc, C = US	4DFD9A61EB32208A94F15719FF2EC71449BCB0F344C18D5D1D3994A6C30E C92E	Yes	
233	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified Authentication CA 2020, O = GMO GlobalSign Ltd, C = GB	EEE8A6FBDE0B1340552AE739832A686FE96103435AE1FCE9392D655E00D86 70D	No	
234	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified Authentication CA 2020, O = GlobalSign nv-sa, C = BE	E042DA36AA8B9A290A525B63AFBBD42E3DBA8286F7100C7981799C6EF2F8 919C	No	
235	CN = GlobalSign GCC R45 PersonalSign 3 CA 2020, O = GlobalSign nv-sa, C = BE	50161C1232F32E8057879F9C7651A9088F5AA1EF5AC9A9A4BD445C6E788EA 6F8	Yes	

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Diestsevest 14, 3000 Leuven Belgium

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236	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas R45 UK Qualified Timestamping CA 2020, O = GMO GlobalSign Ltd, C = GB	4C03F2D6941F2DFCA27EDC599F385E6CD3FFD0CC842F2CCB95B77580A2D 1FF93	No	
237	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Timestamping CA 2020, O = GlobalSign nv-sa, C = BE	D86E6264D58E4CA78AF419740D8186EA8EC48F0C33B4B4D7CA027931D627 B1C8	No	
238	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	28CB8EE23E7BDBBF40B2959A57BB589991C2635CD3B71AAB0E84F993C559 D29F	No	
239	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC E45 UK Qualified QSCD Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	712C42F3C0FA3BDFA11B22AC9811C8EB912C4B464B43C705825DEEDC1195 AD33	No	
240	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified Signing CA 2020, O = GlobalSign nv-sa, C = BE	35E9429CDE680D8D5311CDD46FAEF0AEE694B0556C3D69C4F670E243D64C 87FE	No	
241	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC E45 Qualified QSCD Signing CA 2020, O = GlobalSign nv-sa, C = BE	8115E2CB4F04E56EA70EA932D0622831DD53B22BF6A93B3ACD9125FAB037 4AF1	No	
242	CN = GlobalSign E45 AATL Root CA 2020, O = GlobalSign nv-sa, C = BE	87903E20623512D28BDBFACE4D41BD50F5BA6B1B2E8CCAB134CE161769EA EC00	No	
243	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas E45 UK Qualified Remote Signing CA 2020, O = GMO GlobalSign Ltd,	B89EBBFC57AE60653C676B8EB399DC9415BBB738CB0370651A86BFF075C8 3A39	No	

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	C = GB			
244	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas E45 Qualified Remote Signing CA 2020, O = GlobalSign nv-sa, C = BE	5CB0FDEF052BD18A0A40ADA2235F46EB42B6D0993ED5A50DE47E3EA12FF1 91B1	No	
245	2.5.4.97 = NTRGB-04705639, CN = GlobalSign GCC R45 UK Qualified QSCD Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	91F881C556A920B92C4C48221FAAC19615437CF4ACB7D079C0B426BF3483B 3AE	No	
246	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified Signing CA 2020, O = GlobalSign nv-sa, C = BE	4E1474CFEB41D048C7E1E2C975D69AD3FD739BD44577A80D0432F233D51C 5C77	No	
247	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign GCC R45 Qualified QSCD Signing CA 2020, O = GlobalSign nv-sa, C = BE	1B728D4A76506634A11007912F1D8C6B9AA39BE1AFCA49096657CF1FFB451 3BF	No	
248	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas R45 UK Qualified Remote Signing CA 2020, O = GMO GlobalSign Ltd, C = GB	0958E7A84F392A4F3B7DC5E30FDC8DF733E69B44C68C16FC0DA1741C0841 9DA0	No	
249	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas R45 Qualified Remote Signing CA 2020, O = GlobalSign nv-sa, C = BE	323F35F0DFB01D6B478C24026C66852AAD3E96DCB1C5BE17C1DA1EC47D7 7CC87	No	
250	CN = GlobalSign GCC R45 AATL CA 2020, O = GlobalSign nv-sa, C = BE	BCF8D9040635C95E84F9FEDDF36F9422C0D215C23798E9C2D5F3798ECF27 B68A	Yes	
251	CN = GlobalSign Atlas R45 AATL CA 2020, O = GlobalSign nv-sa,	65573E11BB13C6ED115E0B90E2C30B1E4DE4D5CAC1B31EAB2D417C32A3D A5D79	Yes	

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Main: +32 16 89 19 00 | Fax: +32 16 89 19 09

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	C = BE			
252	2.5.4.97 = NTRGB-04705639, CN = GlobalSign Atlas ECCR5 UK Qualified Timestamping CA 2020, O = GMO GlobalSign Ltd, C = GB	40382F8827B75D25705A6B3DA32533C5F4218BD7FA697CB0B300E8F47047F BC9	No	
253	2.5.4.97 = NTRBE-0459134256, CN = GlobalSign Atlas ECCR5 Qualified Timestamping CA 2020, O = GlobalSign nv-sa, C = BE	E55A4FE881A4B0433674EC0E5CC261A99CCE3FEF649528C7218085BEDCD1 1512	No	
254	CN = GlobalSign Qualified Time Stamping CA 2019, O = GlobalSign nv-sa, C = BE	74ABE5E5CCEB75491FF72C4CF325405D8ADBFE390E189CF430BA60E62798 878E	No	
255	CN = GlobalSign Timestamping Root R45, O = GlobalSign nv-sa, C = BE	6AFBC07C724C6F75C7743392F32BF5780BD5DD39268544D4882E7AEC1ADD 0282	No	
256	CN = European GNSS Agency Atlas R45 SMIME CA 2021, O = European GNSS Agency (GSA), C = CZ	F4EFE27C6B037747B3A89E23EE23C1B70A24DEB53B2E02F423BB0F73E1822 267	No	
257	CN = GlobalSign TSA CA for AATL, O = GlobalSign nv-sa, C = BE	4D8EB49380EC72AC9FDF21FE1C6DB2E9490C76BEADD1F7B528C3CCD272C 8FE28	No	
258	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	1DF6054D6641404633641BB5FA3742FDA7D075E2514840AB61E00CCBBB7D3 41D	No	
259	CN = EY LLP GCC R3 SMIME CA 2020, O = Ernst Young LLP, C = GB	3A093122808FFFA440E19824D0BC7CD6B01D8D8277F7F42FA16E80A0205D4 A7A	Yes	
260	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	45CB1D874CB03BD5C5B6E079C8FC29E51521EE5628486301964A41F94BA59 F88	No	
261	CN = RWE Atlas R45 SMIME CA 2020, O = RWE AG,	BEE8FB99D7B9EC0CAEF1B1A6ACFFEABD777E31CBAC2D0E1846BDAEC4D 5B18BE8	Yes	

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Diestsevest 14, 3000 Leuven Belgium

Main: +32 16 89 19 00 | Fax: +32 16 89 19 09

Web: www.globalsign.com | Email: sales@globalsign.com



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	C = DE			
262	CN = GROB-WERKE GmbH und Co. KG GCC R3 SMIME CA 2020, O = GROB-WERKE GmbH und Co. KG, C = DE	B75840FEA15C545335CD4BA58B707F53524CE984655AEBCC248A57E6F2403 A8B	Yes	
263	CN = HERTZ GCC R45 SMIME CA 2020, O = The HERTZ Corporation, C = US	013C13426B92F703BA573D9E16C2E35AECA26C60F606B88D3CE2150C94D5 6C14	Yes	
264	CN = GlobalSign Atlas R3 SMIME CA 2020, O = GlobalSign nv-sa, C = BE	479D6A0980722966237F06C41842EE796B55D4D00A0D663B785D48433A2915 6E	Yes	
265	CN = Accenture Federal Services GCC R3 Global CA 2020, O = Accenture Federal Services LLC, C = US	9D61B40ECFE094B415FBF6AEEA1FDB27A1A4C3B6FD9008D768777D6D7FB AAEE9	Yes	
266	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	3F319B2AFED4A0F75127BE59925550D0428E68763A09E273EB6A9FF8D18DB B5B	No	
267	CN = GlobalSign Secure Mail Root E45, O = GlobalSign nv-sa, C = BE	5B87841E80AAFE877804E56694473DCA8BB9F1FF4FFCF885A3DAFD24463F CB64	No	
268	CN = GlobalSign Corporate IT Atlas R45 SMIME CA 2021, O = GlobalSign nv-sa, C = BE	7C4E78C74B4818D17EF8B8AB91E32DB4F7E3CE84A0C5E47AAA62AE39FAB 60D01	Yes	
269	CN = CBMM GCC R3 SMIME CA 2020, O = COMPANHIA BRASILEIRA DE METALURGIA E MINERACAO, C = BR	F6F9C3FC5636C7E800EB1BDDFD33AAF98495C130DBF48F9BAF4AB7A1F665 DFB4	Yes	
270	CN = DPDHL User CA I5, O = Deutsche Post AG, C = DE	163B5F69720164075C16CE760A93C85D5073CD5A0D41C7A3AFB0B5E75B3D C646	Yes	
271	CN = AbbVie Atlas R6 AATL ICA 2020, O = AbbVie, Inc.,	6509F94BCA4DC619F3E732D533ACD3D0F10ABA102A13123B6AF737C8E12D AA21	Yes	

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	C = US			
272	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A63C1398B5F8DD2D432FBE4C2C19142BEA6D5D0221FAE794718AE7597ACC A96D	No	
273	CN = GlobalSign Code Signing Root R45, O = GlobalSign nv-sa, C = BE	6385DDCD1B768648267EE5122897CA085FC45D6030ECB55098F583AF152AA 4A6	No	
274	CN = Trusted Root nonTLS CA SHA256 G3, O = GlobalSign nv-sa, C = BE	3A30D4A3043F195609E30F747754699CC6CC97E1F5FCB83DE87E659E579E3 9AD	No	
275	CN = GlobalSign Code Signing Root E45, O = GlobalSign nv-sa, C = BE	E506B72BB97A14D24959A0D1A977E1ACDB6155D68FB4846885E544D147E7D 577	No	
276	CN = GlobalSign CA for AATL - SHA384 - G4, O = GlobalSign nv-sa, C = BE	AC0AB963BB5F3DA05FBC8687F98C2B6EA0BB499E6118C1A9136B1BC7C3C 71A6B	Yes	
277	CN = GlobalSign Client Authentication Root E45, O = GlobalSign nv-sa, C = BE	F375270F2F216B9F62CC31795619F6FE1943DF65D1B198D3341170A40725BF C7	No	
278	CN = DSigner GCC R3 SMIME CA 2020, O = DSIGNER, SOCIEDAD AN/C3\93NIMA, C = GT	3FA4A9B65FDF6876FE668DFECC434932EBC254FD741119FC432A5989A085F 320	No	
279	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	0F1554C2FD591B0256A608E1C136A837E7A6E041561EE08A911B2AFDCD3C6 C1B	No	
280	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	DDA8DA736187D76F4F0ED5A5F667B54D99A98AE06091D0E3A01714E922169 5AD	No	
281	CN = Hyperion GCC R3 SMIME CA 2020, O = Hyperion Services Ltd.,	9537738522B6A87FCF8338CF270203CCF1A7770BB14BB23FA2882A05FFB80 4E4	Yes	

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	C = GB			
282	CN = GlobalSign GCC R3 PersonalSign 2 CA 2020, O = GlobalSign nv-sa, C = BE	F0DBB9E90E6643CCB23660147E5DE24760440089D96F4AD0D82F66C3E7DA5C20	Yes	
283	CN = GlobalSign Root R46, O = GlobalSign nv-sa, C = BE	A5E33C28E3013A71F5F760AE3B16595090043D2EC5209EC52903C4FBAD258DAD	No	
284	CN = GlobalSign, O = GlobalSign, OU = GlobalSign ECC Root CA - R5	F349954E8FB6D44011BCB789D97D9A2CB2032BD5F0B598D1FB8A099F5848D523	No	
285	CN = JCAN Public CA1 - G4, OU = JCAN Public CA1 - G4, O = JIPDEC, C = JP	9AC4C8E358C095C998122ADD17A336C0AC597ECBECB7EDC3F58A75040CF94A5F	Yes	
286	CN = CRB Group GCC R3 SMIME CA 2020, O = CRB Group, Inc., C = US	814179F36A71529C915C540261E44638E37A4FCE879740F0CE7351A8E9291A03	No	
287	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	No	
288	CN = GlobalSign GCC R6 AATL CA 2020, O = GlobalSign nv-sa, C = BE	75CC6021036890EAC71853FAE8382CF8DB33DC41706F42AAFE421E98AD38174C	Yes	
289	CN = GlobalSign GCC R3 PersonalSign 1 CA 2020, O = GlobalSign nv-sa, C = BE	583C7FC250856B7F947FC7CC076FE216273CA1713D122C2E5D8F6038FD6E3562	Yes	
290	CN = GlobalSign Secure Mail Root R45, O = GlobalSign nv-sa, C = BE	5268C94573AF66BA5A3DE979F2048DE43BD4B68AF0B73A2D639159FAFE637F69	No	
291	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R6	C84E1378B974A991ACDCDD733421E3061E6FA21A0491C8902BAFDE3855E0063E	No	

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292	CN = FIFCO Atlas R45 SMIME CA 2020, O = FIFCO, C = CR	80642AAC7C782BCDB0C3F6F385488F9BE3BB2DE30B863009E74B29F026C9EAE6	No	
293	CN = Trafigura PTE Ltd Atlas R45 SMIME CA 2020, O = Trafigura PTE Ltd, C = SG	36FCE16CC976727765DF5E9FADB12C544D704C35150D1F17DDE1A42A85B88BE4	No	
294	CN = Spirit AeroSystems GCC R45 SMIME CA 2020, O = Spirit AeroSystems, Inc., C = US	90D87E23B012A357851472CE9F4E49201F67BA9EC1FB9CD236C0C5AAA15F9E9E	No	
295	CN = GlobalSign Code Signing Root R45, O = GlobalSign nv-sa, C = BE	05E0634B1FEB98AE6B4CF101728CF9D5A1793CEACE301506FF332B22D4CF08EB	No	
296	CN = GlobalSign Client Authentication Root R45, O = GlobalSign nv-sa, C = BE	3DA135562E942799D547CA72EA57D7AC03791B24D4E24BA2E1E1331E8A1678F0	No	
297	CN = LinQuest GCC R3 SMIME CA 2020, O = LinQuest Corporation, C = US	DDD73ABF0259F18F77CA598C2745EA18243526B10D371D7E3B088D68C88C0A97	Yes	
298	CN = DexKo Global GCC R3 SMIME CA 2020, O = DexKo Global Inc., C = US	D531F24E655D1F28A344BD3E0E9B141CE88A4139C61CB0CF5184EF2E2B9531A7	Yes	
299	CN = GlobalSign Root E46, O = GlobalSign nv-sa, C = BE	33EF151EFB08D1C44FB85CC3F23EC6873014E9F881691BD4938B7F251580B694	No	
300	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	445EEC78BC61215044A0379656AA2D5DB5E42F76CB70B8D14C2077AA943D4EBB	No	
301	CN = GlobalSign CA for AATL - SHA256 - G2, O = GlobalSign nv-sa, C = BE	AA89C466E9D06882C0DAAF72BE0F0FBCFE7C1EF2AAAD190640C4AD44F5517F34	No	

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302	CN = GlobalSign, O = GlobalSign, OU = GlobalSign Root CA - R3	C94FEDDA4E8608908580BC7F87B434E03BB262E42F64C63820A8F50FB17C1 CEC	No	
303	CN = GlobalSign CA for AATL - SHA256 - G3, O = GlobalSign nv-sa, C = BE	2E8820DC0EAFAE3D6D285C057ECE14470B377438B002CEDD4C72B4F343A5 4F43	No	
304	CN = GlobalSign ECC HV S/MIME CA 1, O = GlobalSign nv-sa, C = BE	E0CE5C4EF5D2186963D2B04ADE4612BBAF787E16048A5B468F7367776C3A0 3DE	No	Revoked on July 07, 2022
305	CN = GlobalSign Primary SHA256 CA for Adobe, OU = GlobalSign CDS, O = GlobalSign nv-sa, C = BE	8B8AAA67E1EB067303F09E17A505CE7B6CA1C8DC0E1DB59D982B579C69D6 44E1	Yes	
306	CN = GlobalSign GCC E45 Client Authentication CA 2023, O = GlobalSign nv-sa, C = BE	ED8C173B5AA6C71B4456E10C2D9841D2F8B358E093C24BE021508EB0E7950 5A6	No	

* 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

Location Identifier	Country	State / Province
AE-01	Dubai	Dubai
BE-01	Belgium	Vlaams-Brabant
BR-01	Brazil	Minas Gerais
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	Makati
RU-01	Russia	Moscow
SG-01	Singapore	Singapore
SG-02	Singapore	Singapore
UK-01	United Kingdom	Kent
UK-02	United Kingdom	London
UK-03	United Kingdom	London
UK-04	United Kingdom	Kent
US-01	United States	New Hampshire



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Appendix D – Publicly disclosed incidents

Bugzilla ID	Disclosure	Publicly Disclosed Link
1759854	GlobalSign: Certificate issued to FQDN with malformed CAA	Bugzilla Ticket Link
1760311	GlobalSign: OCSP responder certificates with more than 64 characters in CN	Bugzilla Ticket Link
1782391	GlobalSign: EV certificate with wildcard domain in common name and SAN	Bugzilla Ticket Link
1793441	GlobalSign: CRL contains invalid signature algorithm	Bugzilla Ticket Link