

INDEPENDENT ASSURANCE REPORT

To the management of GlobalSign NV/SA:

Scope

We have been engaged, in a reasonable assurance engagement, to report on GlobalSign NV/SA management's assertion, titled "*Assertion of Management as to its Disclosure of its Business Practices and its Controls over its SSL Certification Authority Services during the period of April 1, 2017 through September 18, 2017*", that for its Certification Authority (CA) operations at Japan, Singapore and the United Kingdom, throughout the period April 1st 2017 to September 18th 2017 for its list of Root and Subordinate CAs in scope for SSL Baseline Requirements as stipulated in Appendix B, GlobalSign NV/SA has:

- ▶ Disclosed its SSL certificate lifecycle management business practices in the applicable versions of the Certificate Practice Statement and Certificate Policy, as stipulated in Appendix A, including its commitment to provide SSL certificates in conformity with the CA/Browser Forum Requirements on the GlobalSign NV/SA's website, and provided such services in accordance with its disclosed practices

- ▶ Maintained effective controls to provide reasonable assurance that:
 - The integrity of keys and SSL certificates it manages is established and protected throughout their lifecycles; and
 - SSL subscriber information is properly authenticated (for the registration activities performed by GlobalSign NV/SA)
 - Logical and physical access to CA systems and data is restricted to authorized individuals; and
 - The continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity
 - It meets the Network and Certificate System Security Requirements as set forth by the CA/Browser Forum

in accordance with the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.2](#).

Certification authority's responsibilities

GlobalSign NV/SA's management is responsible for its assertion, including the fairness of its presentation, and the provision of its described services in accordance with the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.2](#).

Our independence and quality control

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

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

Auditor's responsibilities

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

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

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

Relative effectiveness of controls

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

Inherent limitations

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

Opinion

In our opinion, throughout the period April 1st 2017 to September 18th 2017, GlobalSign NV/SA management's assertion, as referred to above, is fairly stated, in all material respects, in accordance

with the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.2](#).

This report does not include any representation as to the quality of GlobalSign NV/SA's services beyond those covered by the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.2](#), nor the suitability of any of GlobalSign NV/SA's services for any customer's intended purpose.

Use of the WebTrust seal

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

Ernst & Young Bedrijfsrevisoren BCVBA



Christel Weymeersch
Partner
September 22, 2017

Appendix A - Certification Practice Statements and Certificate Policies in Scope

Certification Practice Statement	Begin Effective Date	End Effective Date
Version 8.4	February 2nd 2017	August 6th 2017
Version 8.5	August 7th 2017	Current

Certificate Policy	Begin Effective Date	End Effective Date
Version 5.4	February 2nd 2017	August 6th 2017
Version 5.5	August 7th 2017	Current

Appendix B - List of Root and subordinate CA in Scope

Root CA	Serial Number	SHA1 Thumbprint
CN = GlobalSign Root CA OU = Root CA O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 15 4b 5a c3 94	b1 bc 96 8b d4 f4 9d 62 2a a8 9a 81 f2 15 01 52 a4 1d 82 9c
CN = GlobalSign O = GlobalSign OU = GlobalSign Root CA - R3	04 00 00 00 00 01 21 58 53 08 a2	d6 9b 56 11 48 f0 1c 77 c5 45 78 c1 09 26 df 5b 85 69 76 ad
CN = GlobalSign O = GlobalSign OU = GlobalSign ECC Root CA - R5	60 59 49 e0 26 2e bb 55 f9 0a 77 8a 71 f9 4a d8 6c	1f 24 c6 30 cd a4 18 ef 20 69 ff ad 4f dd 5f 46 3a 1b 69 aa
CN = GlobalSign O = GlobalSign OU = GlobalSign Root CA - R6	45 e6 bb 03 83 33 c3 85 65 48 e6 ff 45 51	80 94 64 0e b5 a7 a1 ca 11 9c 1f dd d5 9f 81 02 63 a7 fb d1
CN = GlobalSign Root CA - R7 OU = Root CA O = GlobalSign nv-sa C = BE	48 1b 6a 06 a6 23 3b 90 a6 29 e6 d7 22 d5	c0 f6 29 8e 78 38 ca 4b f6 71 7c ef 2d de eb 57 e3 56 61 fc
CN = GlobalSign Root CA - R8 OU = Root CA O = GlobalSign nv-sa C = BE	48 1b 6a 09 f4 f9 60 71 3a fe 81 cc 86 dd	62 01 ff ce 4f 09 cd c7 e0 2f e1 10 f4 fd 67 f0 37 1a 2f 2a

Subordinate CA	Serial Number	SHA1 Thumbprint
CN = AlphaSSL CA - G2 O = AlphaSSL	04 00 00 00 00 01 2f 4e e1 37 02	58 24 cf 32 c3 cc 2a 47 44 3d b1 0a 33 bb e3 ac 8d e5 24 e1
CN = AlphaSSL CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 44 4e f0 36 31	4c 27 43 17 17 56 5a 3a 07 f3 e6 d0 03 2c 42 58 94 9c f9 ec
CN = AlphaSSL CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 44 4e f0 3a 38	92 80 01 ce 96 78 a6 87 9b 50 23 18 b7 7c 73 98 10 ce 75 77
CN = AlphaSSL CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	47 07 b1 00 4c 72 89 07 cd 35 47 55 f7 22	c3 dd f3 b3 c8 10 10 41 70 4a c2 d3 d6 52 9a f8 4b 65 33 7c
CN = GlobalSign CloudSSL CA -SHA1 - G3 O = GlobalSign nv-sa C = BE	46 f0 8c da b0 f0 81 59 59 3b b3 36 d8 dc	a0 04 2b 9e dc 56 09 65 c8 21 6c 9d 61 78 0b db de 2b de 0a
CN = GlobalSign CloudSSL CA -SHA256 - G3 O = GlobalSign nv-sa C = BE	46 f0 8c db cf 2c 54 66 ef 33 01 dd 5f 34	b4 18 b3 2d b3 b8 cf 9f df a1 9c c3 12 16 85 2f cc 82 86 e3
CN = GlobalSign CodeSigning CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 35 5c	90 00 40 17 77 dd 2b 43 39 3d 7b 59 4d 2f f4 cb a4 51 6b 38
CN = GlobalSign CodeSigning CA - G3 O = GlobalSign nv-sa C = BE	47 c3 0f fe fc 22 bb 28 0f 96 fe a7 52 51	f1 e7 b6 c0 c1 0d a9 43 6e cc 04 ff 5f c3 b6 91 6b 46 cf 4c
CN = GlobalSign Domain Validation CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 41 43	2a 3c f4 bd dc 74 cc aa 48 05 58 f9 d8 d1 d2 a0 84 f3 4b 31
CN = GlobalSign Domain Validation CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 e5 59 25	59 aa d2 4a 09 9d 25 d4 0d 41 bc d0 c3 00 a2 bd b0 44 12 44
CN = GlobalSign Domain Validation CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 3f 11	04 81 c8 ca 31 be 0f a9 40 c7 e0 cc d5 72 37 4e ad f5 2b 73



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Subordinate CA	Serial Number	SHA1 Thumbprint
CN = GlobalSign Domain Validation CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 44 4e f0 3e 20	73 6a 4d c6 79 d6 82 da 32 15 63 64 7c 60 f6 99 f0 df c2 68
CN = GlobalSign Domain Validation CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	47 07 b1 00 f4 18 22 43 4e c0 5b 8c 7b 7f	2b 74 91 52 1f b3 40 04 ab ae 31 94 19 a3 dc 79 1f 63 95 5e
CN = GlobalSign Organization Validation CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 45 0c	b9 ee 85 a1 0f d4 95 d9 94 ed 63 48 8a b7 4a 18 cb 8e 6b fa
CN = GlobalSign Organization Validation CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 e5 5b f4	bf f1 25 8f 5e 1e 79 b6 0f 47 01 ff 26 5c 42 71 39 d9 8c 88
CN = GlobalSign Organization Validation CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 42 f9	04 00 00 00 00 01 2f 4e e1 42 f9
CN = GlobalSign Organization Validation CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 44 4e f0 42 47	90 2e f2 de eb 3c 5b 13 ea 4c 3d 51 93 62 93 09 e2 31 ae 55
CN = GlobalSign PersonalSign 1 CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 2c e1	f5 c9 e3 9d 3d 89 2d d0 98 59 45 cc ad 19 d9 4f 03 77 8c a7
CN = GlobalSign PersonalSign 1 CA - G3 O = GlobalSign nv-sa C = BE	47 c3 0f ff 8a 61 9a 37 f5 a8 2e f0 b5 75	a8 e1 93 75 a7 83 a7 4a 93 a4 45 dd e3 a4 90 6f 5a 8a bc d3
CN = GlobalSign PersonalSign 2 CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 31 46	d2 99 00 b3 9c 9f 22 ff 2d a8 49 7c a6 24 71 9d 64 a8 6b a9
CN = GlobalSign PersonalSign 2 CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 2f 52	81 ff c8 b4 32 26 09 65 53 ce db 47 98 04 61 bc 57 81 4b b2
CN = GlobalSign PersonalSign 2 CA - G3 O = GlobalSign nv-sa C = BE	47 c3 10 00 18 9d c0 41 1c 9f 3e 54 68 41	2c ee 3b 49 5b 49 20 82 06 4c 40 2e 70 b9 23 e4 8b 9c 8d ff
CN = GlobalSign PersonalSign 3 CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 33 b7	1c a4 61 31 fa 66 20 8d 39 b2 fa d4 62 17 51 1f a6 89 35 3d
CN = GlobalSign PersonalSign 3 CA - G3 O = GlobalSign nv-sa C = BE	47 c3 10 00 c0 4b fa 8a 26 54 b7 41 ec 2b	c1 87 b8 57 14 20 2a 29 41 e8 ea fb 84 6c 39 eb 1f 9c 60 9a
CN = GlobalSign PersonalSign Partners CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 3b 58	79 ca 81 4d 71 e1 53 8e d3 ee f9 ed d8 a0 c8 1b 81 ff b5 e2
CN = GlobalSign PersonalSign Partners CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 3d 6b	9e b5 4d f0 72 2b 3d 50 af c5 0a e8 cc 74 aa 36 96 d3 32 18
CN = GlobalSign Timestamping CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 52 d7	c0 e4 9d 2d 7d 90 a5 cd 42 7f 02 d9 12 56 94 d5 d6 ec 5b 71
CN = GlobalSign Timestamping CA O = GlobalSign OU = Timestamping CA	04 00 00 00 00 01 20 19 c1 90 66	95 8d 23 90 2d 54 48 31 4f 2f 81 10 34 35 6a 58 25 5c dc 9b



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Subordinate CA	Serial Number	SHA1 Thumbprint
CN = SignTrust Domain Verification CA - G2 O = SignTrust OU = SignTrust Domain Verification CA - G2	04 00 00 00 00 01 2f 4e e1 39 16	4a 8c 78 cb c8 02 d9 9c 21 dc 14 ef 54 ff 92 df a1 46 e6 87
CN = Trusted Root CA G2 O = GlobalSign nv-sa OU = Trusted Root C = BE	04 00 00 00 00 01 36 e9 3a 3a b3	e1 d3 50 85 bd 1e a8 a1 2f 43 73 bf 59 9b 66 4c e0 07 21 04
CN = GlobalSign Extended Validation CA - G2 O = GlobalSign nv-sa C = BE **	04 00 00 00 00 01 2f 4e e1 5b 63	06 45 6b 2c 4c 26 f3 7c 95 26 67 93 bb ed ff 61 e6 37 3d c2
CN = GlobalSign Extended Validation CA - SHA256 - G2 O = GlobalSign nv-sa C = BE **	04 00 00 00 00 01 44 4e f0 4a 55	65 be 10 2b e2 69 28 65 0e 0e f5 4d c8 f4 f1 5a f5 f9 8e 8b
CN = AlphaSSL CA - SHA256 - G2 O = AlphaSSL	04 00 00 00 00 01 31 89 c6 39 dc	ae bf 32 c3 c8 32 c7 d7 bc 55 99 b1 aa 05 fb 6c f4 d9 29 4c
CN = Beame.io CA 1 O = Beame.io Ltd L = Tel Aviv-Jaffa S = Tel Aviv C = IL	48 44 dc c1 dc 5e 09 85 5f 10 92 9a f2 63	31 31 8e 66 12 6a a2 ed 9e ff d1 8b bb 54 e5 a5 b2 36 7a 72
CN = Beame.io CA 2 O = Beame.io Ltd L = Tel Aviv-Jaffa S = Tel Aviv C = IL	48 44 dc d5 5b d0 28 0e 0b 6f 6a 11 68 81	41 9e b2 f2 96 ef 2f ad b4 76 31 a6 16 16 86 2f 00 8b 9f 29
CN = GlobalSign CA 2 for AATL O = GlobalSign nv-sa C = BE	45 d3 e5 c0 c2 bd aa 7a 9d f7 81 7a b6 c1	bc 06 e0 40 11 b7 e4 c6 a9 0d 8a 96 65 13 f4 ea 2d e4 37 47
CN = GlobalSign CA 3 for AATL O = GlobalSign nv-sa C = BE	45 d3 e5 c4 9a fc e8 83 4a 6e 40 e4 db 10	a9 0d 5a 48 c5 00 d1 b6 46 61 34 a2 9d f7 25 20 c8 a5 0a 2b
CN = GlobalSign CA for AATL - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 44 4f 02 36 b6	dd 50 41 05 5a b5 b3 0c fc b1 12 a4 79 ce 42 93 0d 86 24 65
CN = GlobalSign CA for AATL - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 33 a7 87 fe ac	5a c3 ab 2a 50 c2 42 e6 14 e9 5d 5a 0e 46 13 44 1b 90 a8 a9
CN = GlobalSign CloudSSL CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	48 ca 81 7a c6 dc 7f 56 b6 80 bb 43 36 25	fd 13 16 3b 2c d6 1a b3 82 e1 7e 73 c4 06 99 43 3f 9b eb 77
CN = GlobalSign CloudSSL CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	48 ca 81 7a c6 dc 7f 56 b6 80 bb 43 36 25	fd 13 16 3b 2c d6 1a b3 82 e1 7e 73 c4 06 99 43 3f 9b eb 77
CN = GlobalSign CodeSigning CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	47 2c cb a9 49 bb 94 24 e9 8f 41 6f ad 41	90 5f 59 6a ae 77 14 15 56 43 60 6e aa 5c 83 0b 0b 1b 43 9a
CN = GlobalSign Domain Validation CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 42 58	ba 60 74 c3 a2 5f 99 0b 9d 7a 11 a6 59 c4 f7 82 1c 92 ff 10
CN = GlobalSign Extended Validation CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 49 2e	ce 26 9f db 77 e3 88 4c 35 d5 97 fb dd 07 fc 3e ec e9 c6 22



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Subordinate CA	Serial Number	SHA1 Thumbprint
CN = GlobalSign Extended Validation CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	48 a4 02 dd 27 92 0d a2 08 34 9d d1 99 7b	60 23 19 2f e7 b5 9d 27 89 13 0a 9f e4 09 4f 9b 55 70 d4 a2
CN = GlobalSign Extended Validation CodeSigning CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 4d e1	4f 5e a6 a9 e4 ba 30 a4 57 5d ea d4 e4 e9 d3 b2 da 66 ea 7b
CN = GlobalSign Extended Validation CodeSigning CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	48 1b 6a 07 a9 42 4c 1e aa fe f3 cd f1 0f	87 a6 3d 9a db 62 7d 77 78 36 15 3c 68 0a 3d fc f2 7d e9 0c
CN = GlobalSign HV S/MIME CA 1 O = GlobalSign nv-sa C = BE	48 1b 6a 0e 6e 0f ff bd fd 44 fa b0 ff 07	e2 35 1f 9e 3d c0 93 35 04 60 dc 09 8b 37 a8 9e 5f 14 a0 ad
CN = GlobalSign Organization Validation CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 44 c9	ef 90 b2 b8 6f 47 56 eb e7 d3 6f f3 01 5d 63 52 3a 00 76 e9
CN = GlobalSign PersonalSign 1 CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 2d a7	ac 70 44 5c 6b ce 5b 0a 9f 3a bd 43 96 42 95 95 1b 14 b4 66
CN = GlobalSign PersonalSign 2 CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 33 06	c8 88 84 52 ee 5b 32 e3 32 bf 39 98 b9 98 5d f3 b3 65 43 ab
CN = GlobalSign PersonalSign 2 CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 30 c4	7f 94 3f 17 d7 e2 d2 30 53 80 3f 7a e2 b8 1d 16 0f 5c e0 d1
CN = GlobalSign PersonalSign 3 CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 36 13	33 48 3b 9e 81 fb e8 39 6c f6 c6 64 41 cb f4 25 48 89 fd 82
CN = GlobalSign PersonalSign Partners CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 3e 80	da 8e 16 63 aa b9 92 6f 68 33 d9 dc 56 e2 84 6c 6f 3a 84 ab
CN = GlobalSign PersonalSign Partners CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 40 b2	5d 90 a6 c8 fa 03 13 dc 7d 0e 6e eb e6 9b 42 c3 05 5f 3e 8a
CN = GlobalSign Timestamping CA - R3 O = GlobalSign OU = Timestamping CA	04 00 00 00 00 01 27 fb d2 23 64	6e 77 4a 3c 3b 8f 7b 99 cb 83 98 f0 af d6 d8 5a f4 55 7a 7f
CN = GlobalSign Timestamping CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 50 04	91 84 3b bd 93 6d 86 ea fa 42 a3 af bf 33 e9 28 31 06 8f 99
CN = ICPEdu O = Rede Nacional de Ensino e Pesquisa - RNP OU = Gerencia de Servicos (GSer) L = Rio de Janeiro S = Rio de Janeiro C = BR	57 b0 9e ef 61 56 10 87 44 91 e9 2c 54 62 f4 61 96	47 31 fc 3e 37 f4 f4 99 49 73 9a cd 83 1f 56 2d d8 bc ab dc



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Subordinate CA	Serial Number	SHA1 Thumbprint
CN = NAESB Issuing CA - SHA256 - G2 O = GMO GlobalSign Inc. L = Portsmouth S = New Hampshire C = US	5c 76 b7 28 35 bb 87 1d 2a 81 b6 5e a0 1a e1 a8 32	e8 c9 d8 8a 11 d2 c2 76 92 d0 7f d1 c7 f0 51 cc d9 53 42 0e
CN = NAESB Issuing CA - SHA256 - G2 O = GMO GlobalSign Inc. L = Portsmouth S = New Hampshire C = US	05 b9 6b 0d e3 57 f8 7b 41 ac a1 b0 d0 1e 2b 6a 15	0e 18 0d f7 00 a8 cc 36 0c 85 b2 69 19 2d 2c 17 5f eb 3c 9b
CN = NAESB Issuing CA - SHA384 - G3 O = GMO GlobalSign Inc. L = Portsmouth S = New Hampshire C = US	47 c3 10 52 3d 53 49 cd dd e9 6b 8e f2 7f	79 29 0f cb 3a e8 c0 91 7c 10 3d c9 ed 4b 17 02 d2 00 2d 76
CN = SignTrust Domain Verification CA - SHA256 - G2 O = SignTrust OU = SignTrust Domain Verification CA - SHA256 - G2	04 00 00 00 00 01 31 89 c6 3c 2e	45 8c cd 4f 97 ba dc a6 c7 cc 50 ad c6 8b bf 50 bc 7d f0 a9
CN = Soluti CA - DV O = SOLUTI - SOLUCOES EM NEGOCIOS INTELENTES S/A L = Goiânia S = Goiás C = BR	47 c3 0f fc d4 02 01 81 25 ba 9f b6 e8 c9	f3 17 e9 44 62 4a 4a 10 bd 5b d4 5c e8 8d 21 6b 87 be 68 2b
CN = Soluti CA - EV O = SOLUTI - SOLUCOES EM NEGOCIOS INTELENTES S/A L = Goiânia S = Goiás C = BR	47 c3 0f fd e9 ca 70 68 4b 88 7a 57 0d df	e0 29 5f a6 39 fe 2b 26 4d 37 6a c6 79 a9 e7 00 1d 3b 3f eb
CN = Soluti CA - OV O = SOLUTI - SOLUCOES EM NEGOCIOS INTELENTES S/A L = Goiânia S = Goiás C = BR	47 c3 0f fd 59 d2 76 81 f6 6e f9 c5 a0 75	27 c0 69 9b 0b 19 14 61 3e 06 06 c0 22 d0 44 b1 99 28 b2 2f
CN = Touchtech Intermediate CA O = Touchtech Payments Limited L = Dublin C = IE	48 a4 02 df ed 62 3e 97 9b f3 3d 55 38 99	c1 cb 8e 19 c6 b9 d1 d0 42 8b de 81 fd 6f 1e 65 f9 2c 56 fc
CN = Trusted Root CA SHA256 G2 O = GlobalSign nv-sa OU = Trusted Root C = BE	04 00 00 00 00 01 36 e9 82 39 5d	9a bb 55 a2 6f 9c 06 d5 00 c4 59 91 f0 2c 15 b5 5d 00 a7 02
CN = GlobalSign EC Administration CA2 O = GlobalSign nv-sa C = BE	24 f0 db b5 9c 08 a3 21 67 d7 66 4d 62 6a 5f e3 14	bf fa 2f db f1 bb ca e5 b4 0e 55 99 9c c4 50 de be 41 24 65
CN = GlobalSign ECC384 EV SSL CA - G3 O = GlobalSign nv-sa C = BE	46 74 37 78 16 26 1d 0e 7a db e2 cc b5 fc	a7 9e f0 d5 2e da 08 de fa b9 7e 2d 7c e1 68 45 f9 75 0e 19
CN = GlobalSign ECC384 SSL CA - G3 O = GlobalSign nv-sa C = BE	46 74 37 77 92 09 73 fa 48 2f e2 8d 94 62	30 57 5e 16 60 48 bd 86 4e f8 76 68 25 e7 56 fe 0d fd 8b 80
CN = GlobalSign 4096 Administration CA O = GlobalSign nv-sa C = BE	46 8e 75 7b 50 e9 9e 36 c7 dc b2 9d 82 16	31 99 92 5a fb c7 61 9e fa da b1 4a 82 9c 5f cd 7b 3c d9 3e



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Subordinate CA	Serial Number	SHA1 Thumbprint
CN = GlobalSign R6 Admin CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	48 a4 02 dd b5 de fd 50 ac cf c0 fc f1 3f	71 8d 0c a5 30 df 17 83 07 ea 79 62 15 04 63 ff 8e 39 95 08
CN = GlobalSign R7 Admin CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	48 a4 02 de 98 e0 e2 b5 8c ad 36 4d 4a 25	4f 86 e5 ee 15 0f bd ab 93 a3 ac a5 72 81 0a 2e 0d af 48 6f
CN = GlobalSign R8 Admin CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	48 a4 02 df 34 b7 91 ca 84 d7 c9 af db 45	cf 01 af c2 d0 66 e7 ef 1e 0d 71 7f 2d b9 0b 9e bb 68 11 c9

Assertion of Management as to its Disclosure of its Business Practices and its Controls over its SSL Certification Authority Services during the period of April 1, 2017 through September 18, 2017

September 22, 2017

Our Assertion With Respect to WebTrust for SSL Baseline Requirements

GlobalSign NV/SA operates the Certification Authority (CA) services for its root and subordinate CA as disclosed in Appendix A and provides SSL CA services.

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

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

GlobalSign management has assessed its disclosures of its certificate practices and controls over its SSL CA services. Based on that assessment, in GlobalSign management's opinion, in providing its SSL Certification Authority (CA) services at Japan, Singapore and the United Kingdom, throughout the period April 1st 2017 to September 18th 2017, GlobalSign has:

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

In accordance with the [WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security version 2.2.](#)



GlobalSign
GMO INTERNET GROUP

GlobalSign

Koji Takenobu
Board member

Appendix A – Certification Practice Statements and Certificate Policies in Scope

Certification Practice Statement	Begin Effective Date	End Effective Date
Version 8.4	February 2 nd 2017	August 6 th 2017
Version 8.5	August 7 th 2017	Current

Certificate Policy	Begin Effective Date	End Effective Date
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Version 5.5	August 7 th 2017	Current

Appendix B – Root and subordinate CA in Scope

Root CA	Serial Number	SHA1 Thumbprint
CN = GlobalSign Root CA OU = Root CA O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 15 4b 5a c3 94	b1 bc 96 8b d4 f4 9d 62 2a a8 9a 81 f2 15 01 52 a4 1d 82 9c
CN = GlobalSign O = GlobalSign OU = GlobalSign Root CA - R3	04 00 00 00 00 01 21 58 53 08 a2	d6 9b 56 11 48 f0 1c 77 c5 45 78 c1 09 26 df 5b 85 69 76 ad
CN = GlobalSign O = GlobalSign OU = GlobalSign ECC Root CA - R5	60 59 49 e0 26 2e bb 55 f9 0a 77 8a 71 f9 4a d8 6c	1f 24 c6 30 cd a4 18 ef 20 69 ff ad 4f dd 5f 46 3a 1b 69 aa
CN = GlobalSign O = GlobalSign OU = GlobalSign Root CA - R6	45 e6 bb 03 83 33 c3 85 65 48 e6 ff 45 51	80 94 640e b5 a7 a1 ca 11 9c 1f dd d5 9f 81 02 63 a7 fb d1
CN = GlobalSign Root CA - R7 OU = Root CA O = GlobalSign nv-sa C = BE	48 1b 6a 06 a6 23 3b 90 a6 29 e6 d7 22 d5	c0 f6 29 8e 78 38 ca 4b f6 71 7c ef 2d de eb 57 e3 56 61 fc
CN = GlobalSign Root CA - R8 OU = Root CA O = GlobalSign nv-sa C = BE	48 1b 6a 09 f4 f9 60 71 3a fe 81 cc 86 dd	62 01 ff ce 4f 09 cd c7 e0 2f e1 10 f4 fd 67 f0 37 1a 2f 2a

Subordinate CA	Serial Number	SHA1 Thumbprint
CN = AlphaSSL CA - G2 O = AlphaSSL	04 00 00 00 00 01 2f 4e e1 37 02	58 24 cf 32 c3 cc 2a 47 44 3d b1 0a 33 bb e3 ac 8d e5 24 e1
CN = AlphaSSL CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 44 4e f0 36 31	4c 27 43 17 17 56 5a 3a 07 f3 e6 d0 03 2c 42 58 94 9c f9 ec
CN = AlphaSSL CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 44 4e f0 3a 38	92 80 01 ce 96 78 a6 87 9b 50 23 18 b7 7c 73 98 10 ce 75 77
CN = AlphaSSL CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	47 07 b1 00 4c 72 89 07 cd 35 47 55 f7 22	c3 dd f3 b3 c8 10 10 41 70 4a c2 d3 d6 52 9a f8 4b 65 33 7c
CN = GlobalSign CloudSSL CA -SHA1 - G3 O = GlobalSign nv-sa C = BE	46 f0 8c da b0 f0 81 59 59 3b b3 36 d8 dc	a0 04 2b 9e dc 56 09 65 c8 21 6c 9d 61 78 0b db de 2b de 0a
CN = GlobalSign CloudSSL CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	46 f0 8c db cf 2c 54 66 ef 33 01 dd 5f 34	b4 18 b3 2d b3 b8 cf 9f df a1 9c c3 12 16 85 2f cc 82 86 e3
CN = GlobalSign CodeSigning CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 35 5c	90 00 40 17 77 dd 2b 43 39 3d 7b 59 4d 2f f4 cb a4 51 6b 38
CN = GlobalSign CodeSigning CA - G3 O = GlobalSign nv-sa C = BE	47 c3 0f fe fc 22 bb 28 0f 96 fe a7 52 51	f1 e7 b6 c0 c1 0d a9 43 6e cc 04 ff 5f c3 b6 91 6b 46 cf 4c
CN = GlobalSign Domain Validation CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 41 43	2a 3c f4 bd dc 74 cc aa 48 05 58 f9 d8 d1 d2 a0 84 f3 4b 31
CN = GlobalSign Domain Validation CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 e5 59 25	59 aa d2 4a 09 9d 25 d4 0d 41 bc d0 c3 00 a2 bd b0 44 12 44



Subordinate CA	Serial Number	SHA1 Thumbprint
CN = GlobalSign Domain Validation CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 3f 11	04 81 c8 ca 31 be 0f a9 40 c7 e0 cc d5 72 37 4e ad f5 2b 73
CN = GlobalSign Domain Validation CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 44 4e f0 3e 20	73 6a 4d c6 79 d6 82 da 32 15 63 64 7c 60 f6 99 f0 df c2 68
CN = GlobalSign Domain Validation CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	47 07 b1 00 f4 18 22 43 4e c0 5b 8c 7b 7f	2b 74 91 52 1f b3 40 04 ab ae 31 94 19 a3 dc 79 1f 63 95 5e
CN = GlobalSign Organization Validation CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 45 0c	b9 ee 85 a1 0f d4 95 d9 94 ed 63 48 8a b7 4a 18 cb 8e 6b fa
CN = GlobalSign Organization Validation CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 e5 5b f4	bf f1 25 8f 5e 1e 79 b6 0f 47 01 ff 26 5c 42 71 39 d9 8c 88
CN = GlobalSign Organization Validation CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 42 f9	04 00 00 00 00 01 2f 4e e1 42 f9
CN = GlobalSign Organization Validation CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 44 4e f0 42 47	90 2e f2 de eb 3c 5b 13 ea 4c 3d 51 93 62 93 09 e2 31 ae 55
CN = GlobalSign PersonalSign 1 CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 2c e1	f5 c9 e3 9d 3d 89 2d d0 98 59 45 cc ad 19 d9 4f 03 77 8c a7
CN = GlobalSign PersonalSign 1 CA - G3 O = GlobalSign nv-sa C = BE	47 c3 0f ff 8a 61 9a 37 f5 a8 2e f0 b5 75	a8 e1 93 75 a7 83 a7 4a 93 a4 45 dd e3 a4 90 6f 5a 8a bc d3
CN = GlobalSign PersonalSign 2 CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 31 46	d2 99 00 b3 9c 9f 22 ff 2d a8 49 7c a6 24 71 9d 64 a8 6b a9
CN = GlobalSign PersonalSign 2 CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 2f 52	81 ff c8 b4 32 26 09 65 53 ce db 47 98 04 61 bc 57 81 4b b2
CN = GlobalSign PersonalSign 2 CA - G3 O = GlobalSign nv-sa C = BE	47 c3 10 00 18 9d c0 41 1c 9f 3e 54 68 41	2c ee 3b 49 5b 49 20 82 06 4c 40 2e 70 b9 23 e4 8b 9c 8d ff
CN = GlobalSign PersonalSign 3 CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 33 b7	1c a4 61 31 fa 66 20 8d 39 b2 fa d4 62 17 51 1f a6 89 35 3d
CN = GlobalSign PersonalSign 3 CA - G3 O = GlobalSign nv-sa C = BE	47 c3 10 00 c0 4b fa 8a 26 54 b7 41 ec 2b	c1 87 b8 57 14 20 2a 29 41 e8 ea fb 84 6c 39 eb 1f 9c 60 9a
CN = GlobalSign PersonalSign Partners CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 3b 58	79 ca 81 4d 71 e1 53 8e d3 ee f9 ed d8 a0 c8 1b 81 ff b5 e2



Subordinate CA	Serial Number	SHA1 Thumbprint
CN = GlobalSign PersonalSign Partners CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 3d 6b	9e b5 4d f0 72 2b 3d 50 af c5 0a e8 cc 74 aa 36 96 d3 32 18
CN = GlobalSign Timestamping CA - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 2f 4e e1 52 d7	c0 e4 9d 2d 7d 90 a5 cd 42 7f 02 d9 12 56 94 d5 d6 ec 5b 71
CN = GlobalSign Timestamping CA O = GlobalSign OU = Timestamping CA	04 00 00 00 00 01 20 19 c1 90 66	95 8d 23 90 2d 54 48 31 4f 2f 81 10 34 35 6a 58 25 5c dc 9b
CN = SignTrust Domain Verification CA - G2 O = SignTrust OU = SignTrust Domain Verification CA - G2	04 00 00 00 00 01 2f 4e e1 39 16	4a 8c 78 cb c8 02 d9 9c 21 dc 14 ef 54 ff 92 df a1 46 e6 87
CN = Trusted Root CA G2 O = GlobalSign nv-sa OU = Trusted Root C = BE	04 00 00 00 00 01 36 e9 3a 3a b3	e1 d3 50 85 bd 1e a8 a1 2f 43 73 bf 59 9b 66 4c e0 07 21 04
CN = GlobalSign Extended Validation CA - G2 O = GlobalSign nv-sa C = BE **	04 00 00 00 00 01 2f 4e e1 5b 63	06 45 6b 2c 4c 26 f3 7c 95 26 67 93 bb ed ff 61 e6 37 3d c2
CN = GlobalSign Extended Validation CA - SHA256 - G2 O = GlobalSign nv-sa C = BE **	04 00 00 00 00 01 44 4e f0 4a 55	65 be 10 2b e2 69 28 65 0e 0e f5 4d c8 f4 f1 5a f5 f9 8e 8b
CN = AlphaSSL CA - SHA256 - G2 O = AlphaSSL	04 00 00 00 00 01 31 89 c6 39 dc	ae bf 32 c3 c8 32 c7 d7 bc 55 99 b1 aa 05 fb 6c f4 d9 29 4c
CN = Beame.io CA 1 O = Beame.io Ltd L = Tel Aviv-Jaffa S = Tel Aviv C = IL	48 44 dc c1 dc 5e 09 85 5f 10 92 9a f2 63	31 31 8e 66 12 6a a2 ed 9e ff d1 8b bb 54 e5 a5 b2 36 7a 72
CN = Beame.io CA 2 O = Beame.io Ltd L = Tel Aviv-Jaffa S = Tel Aviv C = IL	48 44 dc d5 5b d0 28 0e 0b 6f 6a 11 68 81	41 9e b2 f2 96 ef 2f ad b4 76 31 a6 16 16 86 2f 00 8b 9f 29
CN = GlobalSign CA 2 for AATL O = GlobalSign nv-sa C = BE	45 d3 e5 c0 c2 bd aa 7a 9d f7 81 7a b6 c1	bc 06 e0 40 11 b7 e4 c6 a9 0d 8a 96 65 13 f4 ea 2d e4 37 47
CN = GlobalSign CA 3 for AATL O = GlobalSign nv-sa C = BE	45 d3 e5 c4 9a fc e8 83 4a 6e 40 e4 db 10	a9 0d 5a 48 c5 00 d1 b6 46 61 34 a2 9d f7 25 20 c8 a5 0a 2b
CN = GlobalSign CA for AATL - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 44 4f 02 36 b6	dd 50 41 05 5a b5 b3 0c fc b1 12 a4 79 ce 42 93 0d 86 24 65
CN = GlobalSign CA for AATL - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 33 a7 87 fe ac	5a c3 ab 2a 50 c2 42 e6 14 e9 5d 5a 0e 46 13 44 1b 90 a8 a9
CN = GlobalSign CloudSSL CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	48 ca 81 7a c6 dc 7f 56 b6 80 bb 43 36 25	fd 13 16 3b 2c d6 1a b3 82 e1 7e 73 c4 06 99 43 3f 9b eb 77



Subordinate CA	Serial Number	SHA1 Thumbprint
CN = GlobalSign CloudSSL CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	48 ca 81 7a c6 dc 7f 56 b6 80 bb 43 36 25	fd 13 16 3b 2c d6 1a b3 82 e1 7e 73 c4 06 99 43 3f 9b eb 77
CN = GlobalSign CodeSigning CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	47 2c cb a9 49 bb 94 24 e9 8f 41 6f ad 41	90 5f 59 6a ae 77 14 15 56 43 60 6e aa 5c 83 0b 0b 1b 43 9a
CN = GlobalSign Domain Validation CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 42 58	ba 60 74 c3 a2 5f 99 0b 9d 7a 11 a6 59 c4 f7 82 1c 92 ff 10
CN = GlobalSign Extended Validation CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 49 2e	ce 26 9f db 77 e3 88 4c 35 d5 97 fb dd 07 fc 3e ec e9 c6 22
CN = GlobalSign Extended Validation CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	48 a4 02 dd 27 92 0d a2 08 34 9d d1 99 7b	60 23 19 2f e7 b5 9d 27 89 13 0a 9f e4 09 4f 9b 55 70 d4 a2
CN = GlobalSign Extended Validation CodeSigning CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 4d e1	4f 5e a6 a9 e4 ba 30 a4 57 5d ea d4 e4 e9 d3 b2 da 66 ea 7b
CN = GlobalSign Extended Validation CodeSigning CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	48 1b 6a 07 a9 42 4c 1e aa fe f3 cd f1 0f	87 a6 3d 9a db 62 7d 77 78 36 15 3c 68 0a 3d fc f2 7d e9 0c
CN = GlobalSign Organization Validation CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 44 c9	ef 90 b2 b8 6f 47 56 eb e7 d3 6f f3 01 5d 63 52 3a 00 76 e9
CN = GlobalSign PersonalSign 1 CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 2d a7	ac 70 44 5c 6b ce 5b 0a 9f 3a bd 43 96 42 95 95 1b 14 b4 66
CN = GlobalSign PersonalSign 2 CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 33 06	c8 88 84 52 ee 5b 32 e3 32 bf 39 98 b9 98 5d f3 b3 65 43 ab
CN = GlobalSign PersonalSign 2 CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 30 c4	7f 94 3f 17 d7 e2 d2 30 53 80 3f 7a e2 b8 1d 16 0f 5c e0 d1
CN = GlobalSign PersonalSign 3 CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 36 13	33 48 3b 9e 81 fb e8 39 6c f6 c6 64 41 cb f4 25 48 89 fd 82
CN = GlobalSign PersonalSign Partners CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 3e 80	da 8e 16 63 aa b9 92 6f 68 33 d9 dc 56 e2 84 6c 6f 3a 84 ab
CN = GlobalSign PersonalSign Partners CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 40 b2	5d 90 a6 c8 fa 03 13 dc 7d 0e 6e eb e6 9b 42 c3 05 5f 3e 8a
CN = GlobalSign Timestamping CA - R3 O = GlobalSign OU = Timestamping CA	04 00 00 00 00 01 27 fb d2 23 64	6e 77 4a 3c 3b 8f 7b 99 cb 83 98 f0 af d6 d8 5a f4 55 7a 7f



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Subordinate CA	Serial Number	SHA1 Thumbprint
CN = GlobalSign Timestamping CA - SHA256 - G2 O = GlobalSign nv-sa C = BE	04 00 00 00 00 01 31 89 c6 50 04	91 84 3b bd 93 6d 86 ea fa 42 a3 af bf 33 e9 28 31 06 8f 99
CN = ICPEdu O = Rede Nacional de Ensino e Pesquisa - RNP OU = Gerencia de Servicos (GSer) L = Rio de Janeiro S = Rio de Janeiro C = BR	57 b0 9e ef 61 56 10 87 44 91 e9 2c 54 62 f4 61 96	47 31 fc 3e 37 f4 f4 99 49 73 9a cd 83 1f 56 2d d8 bc ab dc
CN = NAESB Issuing CA - SHA256 - G2 O = GMO GlobalSign Inc. L = Portsmouth S = New Hampshire C = US	5c 76 b7 28 35 bb 87 1d 2a 81 b6 5e a0 1a e1 a8 32	e8 c9 d8 8a 11 d2 c2 76 92 d0 7f d1 c7 f0 51 cc d9 53 42 0e
CN = NAESB Issuing CA - SHA256 - G2 O = GMO GlobalSign Inc. L = Portsmouth S = New Hampshire C = US	05 b9 6b 0d e3 57 f8 7b 41 ac a1 b0 d0 1e 2b 6a 15	0e 18 0d f7 00 a8 cc 36 0c 85 b2 69 19 2d 2c 17 5f eb 3c 9b
CN = NAESB Issuing CA - SHA384 - G3 O = GMO GlobalSign Inc. L = Portsmouth S = New Hampshire C = US	47 c3 10 52 3d 53 49 cd dd e9 6b 8e f2 7f	79 29 0f cb 3a e8 c0 91 7c 10 3d c9 ed 4b 17 02 d2 00 2d 76
CN = SignTrust Domain Verification CA - SHA256 - G2 O = SignTrust OU = SignTrust Domain Verification CA - SHA256 - G2	04 00 00 00 00 01 31 89 c6 3c 2e	45 8c cd 4f 97 ba dc a6 c7 cc 50 ad c6 8b bf 50 bc 7d f0 a9
CN = Soluti CA - DV O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A L = Goiânia S = Goiás C = BR	47 c3 0f fc d4 02 01 81 25 ba 9f b6 e8 c9	f3 17 e9 44 62 4a 4a 10 bd 5b d4 5c e8 8d 21 6b 87 be 68 2b
CN = Soluti CA - EV O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A L = Goiânia S = Goiás C = BR	47 c3 0f fd e9 ca 70 68 4b 88 7a 57 0d df	e0 29 5f a6 39 fe 2b 26 4d 37 6a c6 79 a9 e7 00 1d 3b 3f eb
CN = Soluti CA - OV O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A L = Goiânia S = Goiás C = BR	47 c3 0f fd 59 d2 76 81 f6 6e f9 c5 a0 75	27 c0 69 9b 0b 19 14 61 3e 06 06 c0 22 d0 44 b1 99 28 b2 2f
CN = Touchtech Intermediate CA O = Touchtech Payments Limited L = Dublin C = IE	48 a4 02 df ed 62 3e 97 9b f3 3d 55 38 99	c1 cb 8e 19 c6 b9 d1 d0 42 8b de 81 fd 6f 1e 65 f9 2c 56 fc
CN = Trusted Root CA SHA256 G2 O = GlobalSign nv-sa OU = Trusted Root C = BE	04 00 00 00 00 01 36 e9 82 39 5d	9a bb 55 a2 6f 9c 06 d5 00 c4 59 91 f0 2c 15 b5 5d 00 a7 02

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Subordinate CA	Serial Number	SHA1 Thumbprint
CN = GlobalSign EC Administration CA2 O = GlobalSign nv-sa C = BE	24 f0 db b5 9c 08 a3 21 67 d7 66 4d 62 6a 5f e3 14	bf fa 2f db f1 bb ca e5 b4 0e 55 99 9c c4 50 de be 41 24 65
CN = GlobalSign ECC384 EV SSL CA - G3 O = GlobalSign nv-sa C = BE	46 74 37 78 16 26 1d 0e 7a db e2 cc b5 fc	a7 9e f0 d5 2e da 08 de fa b9 7e 2d 7c e1 68 45 f9 75 0e 19
CN = GlobalSign ECC384 SSL CA - G3 O = GlobalSign nv-sa C = BE	46 74 37 77 92 09 73 fa 48 2f e2 8d 94 62	30 57 5e 16 60 48 bd 86 4e f8 76 68 25 e7 56 fe 0d fd 8b 80
CN = GlobalSign 4096 Administration CA O = GlobalSign nv-sa C = BE	46 8e 75 7b 50 e9 9e 36 c7 dc b2 9d 82 16	31 99 92 5a fb c7 61 9e fa da b1 4a 82 9c 5f cd 7b 3c d9 3e
CN = GlobalSign R6 Admin CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	48 a4 02 dd b5 de fd 50 ac cf c0 fc f1 3f	71 8d 0c a5 30 df 17 83 07 ea 79 62 15 04 63 ff 8e 39 95 08
CN = GlobalSign R7 Admin CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	48 a4 02 de 98 e0 e2 b5 8c ad 36 4d 4a 25	4f 86 e5 ee 15 0f bd ab 93 a3 ac a5 72 81 0a 2e 0d af 48 6f
CN = GlobalSign R8 Admin CA - SHA256 - G3 O = GlobalSign nv-sa C = BE	48 a4 02 df 34 b7 91 ca 84 d7 c9 af db 45	cf 01 af c2 d0 66 e7 ef 1e 0d 71 7f 2d b9 0b 9e bb 68 11 c9

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