



**KPMG Advisory N.V.**  
P.O. Box 74500  
1070 DB Amsterdam  
The Netherlands

Laan van Langerhuize 1  
1186 DS Amstelveen  
The Netherlands  
Telephone +31 (0)20 656 7890  
www.kpmg.com/nl

## 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, 2023 to March 31, 2024 for its CAs as enumerated in [Appendix B](#), GlobalSign has:

- disclosed its extended validation SSL ("EV SSL") certificate lifecycle management business practices in the applicable versions of the Certificate Practice Statements and Certificate Policies, as enumerated in [Appendix A](#), including its commitment to provide EV SSL Certificates in conformity with the CA/Browser Forum Requirements on the GlobalSign's website, and provided such services in accordance with its disclosed practices;
- maintained effective controls to provide reasonable assurance that:
  - the integrity of keys and EV SSL certificates it manages is established and protected throughout their lifecycles; and
  - EV SSL subscriber information is properly authenticated (for the registration activities performed by GlobalSign) in accordance with the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL, version 1.8](#).

### Certification authority's responsibilities

GlobalSign's management is responsible for its assertion, including the fairness of its presentation, and the provision of its described services in accordance with the WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL, version 1.8.

### Our independence and quality control

We have complied with the independence and other ethical requirements of the *Code of Ethics for Professional Accountants* issued by the International Ethics Standards Board for Accountants, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour. Therefore, we are independent of GlobalSign and complied with other ethical requirements in accordance with the Code of Ethics of NOREA (IT Auditors Association in The Netherlands) and the Code of Ethics for Professional Accountants, a regulation with respect to independence of the NBA, Royal Netherlands Institute of Chartered Accountants.

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



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requirements. We also apply the '*Reglement Kwaliteitsbeheersing NOREA*' (RKBN, Regulations for Quality management systems) and, accordingly, maintain 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 and the related Dutch Directive 3000A '*Attest-opdrachten*' (Attestation engagements), as issued by NOREA, the IT Auditors Association in The Netherlands. These standards requires that we plan and perform our procedures to obtain reasonable assurance about whether, in all material respects, management's assertion is fairly stated, and, accordingly, included:

1. obtaining an understanding of GlobalSign's EV SSL certificate lifecycle management business practices, including its relevant controls over the issuance, renewal, and revocation of EV SSL certificates;
2. selectively testing transactions executed in accordance with disclosed EV SSL certificate lifecycle management practices;
3. testing and evaluating the operating effectiveness of the controls; and
4. performing such other procedures as we considered necessary in the circumstances.

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

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

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

### **Inherent limitations**

There are inherent limitations in the effectiveness of any system of internal control, including the possibility of human error and the circumvention of controls. For example, because of their nature, controls may not prevent, or detect unauthorized 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.



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## **Opinion**

In our opinion, throughout the period April 1, 2023 to March 31, 2024, GlobalSign management's assertion, as referred to above, is fairly stated, in all material respects, in accordance with the WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL, version 1.8.

This report does not include any representation as to the quality of GlobalSign's services beyond those covered by the WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL, version 1.8, 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 – Extended Validation SSL Seal constitutes a symbolic representation of the contents of this report and it is not intended, nor should it be construed, to update this report or provide any additional assurance.

On behalf of KPMG Advisory N.V.

Amstelveen, June 28, 2024

drs. ing. R.F. Koorn RE CISA  
Partner



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## Appendix A - Certification Practice Statements and Certificate Policies in Scope

| Certification Practice statement | Begin Effective Date | End Effective Date |
|----------------------------------|----------------------|--------------------|
| <a href="#">Version 10.0</a>     | March 28, 2023       | August 21, 2023    |
| <a href="#">Version 10.1</a>     | August 21, 2023      | November 15, 2023  |
| <a href="#">Version 10.2</a>     | November 15, 2023    | March 29, 2024     |
| <a href="#">Version 10.3</a>     | March 29, 2024       |                    |

| Certification Policy        | Begin Effective Date | End Effective Date |
|-----------------------------|----------------------|--------------------|
| <a href="#">Version 7.0</a> | March 28, 2023       | August 21, 2023    |
| <a href="#">Version 7.1</a> | August 21, 2023      | November 15, 2023  |
| <a href="#">Version 7.2</a> | November 15, 2023    | March 29, 2024     |
| <a href="#">Version 7.3</a> | March 29, 2024       |                    |



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## Appendix B - List of CAs in scope

The following CAs were in scope of the WebTrust for CAs – Extended Validation SSL audit:

| Root CA |  |   |                   |
|---------|--|---|-------------------|
| #       | Subject DN   | SHA256 Fingerprint  | Other information |
| 1       | CN = GlobalSign Root CA,<br>OU = Root CA,<br>O = GlobalSign nv-sa,<br>C = BE | EBD41040E4BB3EC742C9E381D31EF2A41A48B6685C96E7CEF3C1DF6CD4331C99  |                   |
| 2       | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign Root CA - R3          | CBB522D7B7F127AD6A0113865BDF1CD4102E7D0759AF635A7CF4720DC963C53B  |                   |
| 3       | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign ECC Root CA - R5      | 179FBC148A3DD00FD24EA13458CC43BFA7F59C8182D783A513F6EBEC100C8924  |                   |
| 4       | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign Root CA - R6          | 2CABEAFFE37D06CA22ABA7391C0033D25982952C453647349763A3AB5AD6CCF69 |                   |
| 5       | CN = GlobalSign Root R46,<br>O = GlobalSign nv-sa,<br>C = BE                 | 4FA3126D8D3A11D1C4855A4F807CBAD6CF919D3A5A88B03BEA2C6372D93C40C9  |                   |
| 6       | CN = GlobalSign Root E46,<br>O = GlobalSign nv-sa,<br>C = BE                 | CBB9C44D84B8043E1050EA31A69F514955D7BFD2E2C6B49301019AD61D9F5058  |                   |
| 7       | CN = GlobalSign Secure Mail Root R45,<br>O = GlobalSign nv-sa,<br>C = BE     | 319AF0A7729E6F89269C131EA6A3A16FCD86389FDCAB3C47A4A675C161A3F974  |                   |
| 8       | CN = GlobalSign Secure Mail Root E45,<br>O = GlobalSign nv-sa,<br>C = BE     | 5CBF6FB81FD417EA4128CD6F8172A3C9402094F74AB2ED3A06B4405D04F30B19  |                   |



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| Root CA |  |  |                   |
|---------|--|--|-------------------|
| #       | Subject DN   | SHA256 Fingerprint   | Other information |
| 9       | CN = GlobalSign Code Signing Root R45,<br>O = GlobalSign nv-sa,<br>C = BE          | 7B9D553E1C92CB6E8803E137F4F287D4363757F5D44B37D52F9FCA22FB97DF86 |                   |
| 10      | CN = GlobalSign Code Signing Root E45,<br>O = GlobalSign nv-sa,<br>C = BE          | 26C6C5FD4928FD57A8A4C5724FDD279745869C60C338E262FFE901C31BD1DB2B |                   |
| 11      | CN = GlobalSign Document Signing Root R45,<br>O = GlobalSign nv-sa,<br>C = BE      | 38BE6C7EEB4547D82B9287F243AF32A9DEEB5DC5C9A87A0056F938D91B456A5A |                   |
| 12      | CN = GlobalSign Document Signing Root E45,<br>O = GlobalSign nv-sa,<br>C = BE      | F86973BDD0514735E10C1190D0345BF89C77E1C4ADBD3F65963B803FD3C9E1FF |                   |
| 13      | CN = GlobalSign Timestamping Root R45,<br>O = GlobalSign nv-sa,<br>C = BE          | 2BCBBFD66282C680491C8CD7735FDBBAB7A8079B127BEC60C535976834399AF7 |                   |
| 14      | CN = GlobalSign Client Authentication Root R45,<br>O = GlobalSign nv-sa,<br>C = BE | 165C7E810BD37C1D57CE9849ACCD500E5CB01EEA37DC550DB07E598AAD2474A8 |                   |
| 15      | CN = GlobalSign Client Authentication Root E45,<br>O = GlobalSign nv-sa,<br>C = BE | 8B0F0FAA2C00FE0532A8A54E7BC5FD139C1922C4F10F0B16E10FB8BE1A634964 |                   |
| 16      | CN = GlobalSign Timestamping Root E46,<br>O = GlobalSign nv-sa,<br>C = BE          | 4774674B94B78F5CCBEF89FDDEBDABBD894A71B55576B8CC5E6876BA3EAB4538 |                   |



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| <b>DV TLS Issuing CA</b> |  |  |                          |
|--------------------------|--|--|--------------------------|
| <b>#</b>                 | <b>Subject DN</b>  | <b>SHA256 Fingerprint</b>  | <b>Other information</b> |
| 17                       | CN = GlobalSign Domain Validation CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE | 37D080A5E9A526663E56EE20DE4BD9F7952DACC341491439080167AD5DD18CAC |                          |
| 18                       | CN = AlphaSSL CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE                     | 8C2410F76B149CA062B420AB611B6BF0A06E6E799A29587E4D4EC16D0537B7EA |                          |
| 19                       | CN = GlobalSign Domain Validation CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE | BFDF4CF3F143AD0DB912D8AB3A7C12F617B9EA60CE8B1F4E44F74270FB21B19B |                          |
| 20                       | CN = AlphaSSL CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE                     | EE793643199474ED60EFDC8CCDE4D37445921683593AA751BBF8EE491A391E97 |                          |
| 21                       | CN = GlobalSign Atlas R3 DV TLS CA 2020,<br>O = GlobalSign nv-sa,<br>C = BE            | B65FE6A1BF2D52FF68B7D3E9D0F06B300A1C3F248309B70405CA7BDEC054BDDD |                          |
| 22                       | CN = Soluti CA - DV,<br>O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A,<br>C = BR  | 5C452334D9C9C9A2EA42CC77A7165E1795EE9D84EB70CB784B47EA9D92A582D9 |                          |
| 23                       | CN = GlobalSign Domain Validation CA - SHA256 - G3,<br>O = GlobalSign nv-sa,<br>C = BE | 09BC1B137C031239EF788673E94EB17F5F3ECAB07D3ADBFB485E75ABFAAF3B9A |                          |
| 24                       | CN = GlobalSign GCC R3 DV TLS CA 2020,<br>O = GlobalSign nv-sa,<br>C = BE              | 762538439509C411C437D3C567563E1378671281FC4A1464ADD031870843676E |                          |
| 25                       | CN = AlphaSSL CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE                     | 5A817EADA4AD78734EBB2CF674352D97F4352290C40EAF10E764B1EAC075B0E6 |                          |



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| <b>DV TLS Issuing CA</b> |  |  |                                  |
|--------------------------|--|--|----------------------------------|
| <b>#</b>                 | <b>Subject DN</b>  | <b>SHA256 Fingerprint</b>  | <b>Other information</b>         |
| 26                       | CN = Valid Certificadora Digital AlphaSSL CA 2018,<br>O = VALID CERTIFICADORA DIGITAL,<br>C = BR | 04DE47A9CDD3091CFC5EF6AAA3B7D4B53E13C4D4DC02364F6C0B408742EC3C76 | Expired on<br>September 19, 2023 |
| 27                       | CN = Valid Certificadora Digital SSL DV CA 2018,<br>O = VALID CERTIFICADORA DIGITAL,<br>C = BR   | FCF26FBC1B2A25A76AB4EA92B2CBEF367E0131091C802DA49898F78AE54B30F8 | Expired on<br>September 19, 2023 |





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| OV TLS Issuing CA |   |  |                   |
|-------------------|---|--|-------------------|
| #                 | Subject DN  | SHA256 Fingerprint   | Other information |
| 28                | CN = GlobalSign Organization Validation CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE    | 1C9737E968AD9DFF8D8D7FCF996A144BB97851A19011A0190C943CAE8D43CFE0 |                   |
| 29                | CN = GlobalSign Organization Validation CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE    | 74EF335E5E18788307FB9D89CB704BEC112ABD23487DBFF41C4DED5070F241D9 |                   |
| 30                | CN = GlobalSign ECC OV SSL CA 2018,<br>O = GlobalSign nv-sa,<br>C = BE                          | 87C71553445EB3C33C3E0710711B99E9C7773F04D91AC38A9F4C082EE24101EA |                   |
| 31                | CN = GlobalSign RSA OV SSL CA 2018,<br>O = GlobalSign nv-sa,<br>C = BE                          | B676FFA3179E8812093A1B5EAFEE876AE7A6AAF231078DAD1BFB21CD2893764A |                   |
| 32                | CN = GlobalSign Organization Validated ECC CA - SHA256 - G4,<br>O = GlobalSign nv-sa,<br>C = BE | 65EEC0CC6C970CC1CD73659115DC8D904E6F12E6DC8FD4DDA39D54CB30224780 |                   |
| 33                | CN = GlobalSign Organization Validated CA - SHA256 - G4,<br>O = GlobalSign nv-sa,<br>C = BE     | 1E1741A12EB8DA2BD76EA96C04F520359839710F620E80952F48DD0240A12CD8 |                   |
| 34                | CN = GlobalSign Organization Validation CA - SHA256 - G3,<br>O = GlobalSign nv-sa,<br>C = BE    | 699D54B7482A5D329331EA0415CC2EDCD60FDA01D19E71D054196BCE0677735C |                   |
| 35                | CN = Trusted Root TLS CA SHA256 G3,<br>O = GlobalSign nv-sa,<br>C = BE                          | 91F19CE503C9FE7FF9587D8EFBEF7315AAEE77DC2D14526126493B4AD6FE801F |                   |



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| EV TLS Issuing CA |   |  |                   |
|-------------------|---|--|-------------------|
| #                 | Subject DN  | SHA256 Fingerprint   | Other information |
| 36                | CN = GlobalSign Atlas R46 EV TLS CA 2024 Q2,<br>O = GlobalSign nv-sa,<br>C = BE | D5816A7FD5FA18D3E0C44C78273FA856BE0A3A993428826763E3A88086311986 |                   |
| 37                | CN = GlobalSign Atlas E46 EV TLS CA 2024 Q2,<br>O = GlobalSign nv-sa,<br>C = BE | 04E808603BE46B2534562E3DE237F4AE7ABE2B5E3141D8DEC470A822370D3DB7 |                   |
| 38                | CN = GlobalSign Atlas R6 EV TLS CA 2024 Q2,<br>O = GlobalSign nv-sa,<br>C = BE  | 91DDDCB95C82585A3D8645F665CE7B8B606569F6941D33BD9DDA338A5EF6D4C2 |                   |
| 39                | CN = GlobalSign Atlas E46 EV TLS CA 2024 Q1,<br>O = GlobalSign nv-sa,<br>C = BE | D78BE04CDBE328D5493489067B8DF1C57E65EA74D8888F08C711E815A6A11A14 |                   |
| 40                | CN = GlobalSign Atlas R46 EV TLS CA 2024 Q1,<br>O = GlobalSign nv-sa,<br>C = BE | 60B846638922190DE52C1AB044FD2FA88A9D6DF3989831C00C84296B8DB7A5EE |                   |
| 41                | CN = GlobalSign Atlas R6 EV TLS CA 2024 Q1,<br>O = GlobalSign nv-sa,<br>C = BE  | 020EEC98A3C1ED2D5BE21193349ACB9751DE071D6B452A489A6A867CE9B633E9 |                   |
| 42                | CN = GlobalSign Atlas R1 EV TLS CA 2023,<br>O = GlobalSign nv-sa,<br>C = BE     | BFB08828EB69B99EE7CEBDD687C8E883A1FE07D3F998347F92EE9356414AD002 |                   |
| 43                | CN = GlobalSign Atlas E46 EV TLS CA 2023 Q4,<br>O = GlobalSign nv-sa,<br>C = BE | 1DFFC2AD5B423DCC715DFE54AA117F2525974D9571FEA82819232807F4ADD4EE |                   |



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| EV TLS Issuing CA |  |   |                   |
|-------------------|--|---|-------------------|
| #                 | Subject DN   | SHA256 Fingerprint  | Other information |
| 44                | CN = GlobalSign Atlas R46 EV TLS CA 2023 Q4,<br>O = GlobalSign nv-sa,<br>C = BE          | B97E1037E4CD5C069271600AFD1FF345EEAE1BC2C023A5FBA8B163260FCA5DAB  |                   |
| 45                | CN = GlobalSign Atlas R6 EV TLS CA 2023 Q4,<br>O = GlobalSign nv-sa,<br>C = BE           | 4959306BAE8C548D319D1855C34493F7AD00B9BAF824BDFD96FF2C3C32BDAAEEA |                   |
| 46                | CN = GlobalSign ECC EV SSL CA 2018,<br>O = GlobalSign nv-sa,<br>C = BE                   | 8F19FFE02FC795ED70765D1436ADDF772FE0F0773DA436EDBDB42A2E30E2E828  |                   |
| 47                | CN = GlobalSign Extended Validation CA - SHA256 - G3,<br>O = GlobalSign nv-sa,<br>C = BE | AED5DD9A5339685DFB029F6D89A14335A96512C3CACC52B2994AF8B6B37FA4D2  |                   |
| 48                | CN = GlobalSign Atlas E46 EV TLS CA 2023 Q3,<br>O = GlobalSign nv-sa,<br>C = BE          | 40D44FA09A260E8FCD527293AA965F247B31E2104FA51B36D263B0479FB828F2  |                   |
| 49                | CN = GlobalSign Atlas R46 EV TLS CA 2023 Q3,<br>O = GlobalSign nv-sa,<br>C = BE          | 2335D5EDFA507EB56B7DAC00F434D55B9565A6F968E4CD3AC01BAC2317A10B16  |                   |
| 50                | CN = GlobalSign Atlas R6 EV TLS CA 2023 Q3,<br>O = GlobalSign nv-sa,<br>C = BE           | D454487FBE3B2CBC10C3023E73AEE27F3E3640726CE7BB03BB4244B50CB2F4C4  |                   |
| 51                | CN = GlobalSign Atlas E46 EV TLS CA 2023 Q2,<br>O = GlobalSign nv-sa,<br>C = BE          | B95D0B51AAB7504D0F8780173B8C395DD718371BA61ADE30C11B1B77B33EC01B  |                   |



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| EV TLS Issuing CA |   |  |                   |
|-------------------|---|--|-------------------|
| #                 | Subject DN  | SHA256 Fingerprint   | Other information |
| 52                | CN = GlobalSign Atlas R46 EV TLS CA 2023 Q2,<br>O = GlobalSign nv-sa,<br>C = BE | BA0DF2D121A739E0002AA19B5B2400F4204A324F28669356CEB0B1B2DADF8B86 |                   |
| 53                | CN = GlobalSign Atlas R6 EV TLS CA 2023 Q2,<br>O = GlobalSign nv-sa,<br>C = BE  | AEDCC1DBC44D96F692BD451D76A3229839151D5BE82FE8D0D1B23030F48FB19  |                   |
| 54                | CN = GlobalSign Atlas E46 EV TLS CA 2023 Q1,<br>O = GlobalSign nv-sa,<br>C = BE | 8D1EE31E047C9E604CF0603A9076DC45A7BD4D4AF4584D2156F03752626D8A6E |                   |
| 55                | CN = GlobalSign Atlas R46 EV TLS CA 2023 Q1,<br>O = GlobalSign nv-sa,<br>C = BE | A02C04DAB0B317A4910753F2F74E3C78B39AD210E5CB72870B278122AD35B265 |                   |
| 56                | CN = GlobalSign Atlas R6 EV TLS CA 2023 Q1,<br>O = GlobalSign nv-sa,<br>C = BE  | 1083D57464FD5128B80B22965FA205E13168DDFCCDF17A7095F3BE0ED0AB3A91 |                   |
| 57                | CN = GlobalSign Atlas E46 EV TLS CA 2022 Q4,<br>O = GlobalSign nv-sa,<br>C = BE | A34B15C8D1C296106ACBC14680160027B1FA49114C21BD99B3AE59BD8C4C7B54 |                   |
| 58                | CN = GlobalSign Atlas R46 EV TLS CA 2022 Q4,<br>O = GlobalSign nv-sa,<br>C = BE | B050000CF749EC658A6B9ED8D4C3A393435644A327603FB036327E32A47BFBA4 |                   |
| 59                | CN = GlobalSign Atlas R6 EV TLS CA 2022 Q4,<br>O = GlobalSign nv-sa,<br>C = BE  | C1262AC6412075B2513AE5E563FCCEDB4B3E59B812695EE0CD87223A2C2D048B |                   |



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| EV TLS Issuing CA |   |   |                   |
|-------------------|---|---|-------------------|
| #                 | Subject DN  | SHA256 Fingerprint  | Other information |
| 60                | CN = GlobalSign Atlas E46 EV TLS CA 2022 Q3,<br>O = GlobalSign nv-sa,<br>C = BE | 4006CDFF6D8D52DC090FF5382B9C30CEA8CC5005DF2D5E8203CD67921797750D  |                   |
| 61                | CN = GlobalSign Atlas R46 EV TLS CA 2022 Q3,<br>O = GlobalSign nv-sa,<br>C = BE | 0ED5AA0061D09B703E1B3150FB6367870BBF245CCEED4FE08F2DBE4201723A8D  |                   |
| 62                | CN = GlobalSign Atlas R6 EV TLS CA 2022 Q3,<br>O = GlobalSign nv-sa,<br>C = BE  | 0C92594BD394B4887A1D66EC5E631FFAD3BA4B07FE2EB6D15D2F5FEE4C90C454  |                   |
| 63                | CN = GlobalSign Atlas E46 EV TLS CA 2022 Q2,<br>O = GlobalSign nv-sa,<br>C = BE | 5E2A73EE6069DE65322DCF0430176B385F5238C296EEE4392E7ED7DB4BE908A40 |                   |
| 64                | CN = GlobalSign Atlas R46 EV TLS CA 2022 Q2,<br>O = GlobalSign nv-sa,<br>C = BE | 398DC562DC098CF75F3A151216E583380C279444B0D63E766D9DF6F47D04C60   |                   |
| 65                | CN = GlobalSign Atlas R6 EV TLS CA 2022 Q2,<br>O = GlobalSign nv-sa,<br>C = BE  | 256602DC8A8041B2EDC0CAE611A6A98D9B39AD4DE3E19F62DC0A0A1958B72271  |                   |
| 66                | CN = GlobalSign Atlas E46 EV TLS CA 2022 Q1,<br>O = GlobalSign nv-sa,<br>C = BE | 9C9D5E986B5BEA7A1EC8457EBCAA600D2435803B91FEC97C4E5043BE6742D4B1  |                   |
| 67                | CN = GlobalSign Atlas R46 EV TLS CA 2022 Q1,<br>O = GlobalSign nv-sa,<br>C = BE | 4CFA14BC7E8F48D4677B0604777AF76AB0C55B326F8B97BA95F6ACE115C05F16  |                   |



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| EV TLS Issuing CA |  |  |                   |
|-------------------|--|--|-------------------|
| #                 | Subject DN   | SHA256 Fingerprint   | Other information |
| 68                | CN = GlobalSign Atlas R6 EV TLS CA 2022 Q1,<br>O = GlobalSign nv-sa,<br>C = BE           | C9A74009DAE194A40BD122ABD015D44E93CB7879B0949054A31042EF4C99E5D6 |                   |
| 69                | CN = GlobalSign Atlas R6 EV TLS CA H2 2021,<br>O = GlobalSign nv-sa,<br>C = BE           | 0ABB1CDE53CCAC170483DAFCD3CDB9F2622BA7E47D31EC0FD3DB271B4AAA5303 |                   |
| 70                | CN = GlobalSign Atlas R46 EV TLS CA H2<br>2021,<br>O = GlobalSign nv-sa,<br>C = BE       | 385AA00A1848F807F665561E888B0D4F69614052D825F3C33970E00F4C3658DD |                   |
| 71                | CN = GlobalSign Atlas E46 EV TLS CA H2<br>2021,<br>O = GlobalSign nv-sa,<br>C = BE       | 44E683576E1C960D784D17BB2325C25CF1BE4E20470C31D9D73CACED496C95C9 |                   |
| 72                | CN = CUISEC GCC R3 TLS EV CA 2021,<br>O = 联通智慧安全科技有限公司,<br>C = CN                        | 9BFABD8D91284500B4D412C5725C87CB3A013F940FF1E62810E6929C69393ED9 |                   |
| 73                | CN = Soluti CA - EV,<br>O = SOLUTI - SOLUCOES EM NEGOCIOS<br>INTELIGENTES S/A,<br>C = BR | 11FBA4A7EE579C70E1D57F9F9B6A8C209E1219C4F1D3846F83FFCE74E9E5E2CE |                   |
| 74                | CN = GlobalSign Atlas R6 EV TLS CA 2020,<br>O = GlobalSign nv-sa,<br>C = BE              | BCE7091355D2417A37F8CFE2AC8F17C2748888BA0EEA90000FC980ECFC2D041F |                   |
| 75                | CN = GlobalSign Atlas E46 EV TLS CA 2020,<br>O = GlobalSign nv-sa,<br>C = BE             | 364DF25CC88F6FB0202C02CD9B8EA02DFE8AC02341EFF5A9DFFC5BE159ED5991 |                   |
| 76                | CN = GlobalSign Atlas R46 EV TLS CA 2020,<br>O = GlobalSign nv-sa,<br>C = BE             | E1E15D289697AF3285BF34112A3E60BC11C0C8122DD2B9B3420AB2E5E57883CA |                   |



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| EV TLS Issuing CA |   |  |                                |
|-------------------|---|--|--------------------------------|
| #                 | Subject DN  | SHA256 Fingerprint   | Other information              |
| 77                | CN = Keysec GR3 EV TLS CA 2024,<br>O = KEYSEC LTDA,<br>C = BR                   | 9173EFAEA4E61855EB858D107DBA94A1CD18CAE00EAF9C7EDB57201AD99A9BFD |                                |
| 78                | CN = GlobalSign GCC E5 UK EV QWAC CA 2021,<br>O = GMO GlobalSign Ltd,<br>C = GB | 0966A88729C938F9DCD65BB3C63B608618EAE5183ED1FED752B323089687A20E |                                |
| 79                | CN = GlobalSign GCC E5 EV QWAC CA 2021,<br>O = GlobalSign nv-sa,<br>C = BE      | 0DD2C7E0AF8200F49F4192A89AE634D4CE41B80C63B0629CC68E538C316F020E |                                |
| 80                | CN = GlobalSign GCC R3 UK EV QWAC CA 2020,<br>O = GMO GlobalSign Ltd,<br>C = GB | A33017D9DF494C09D58709107403AEE461B9461E81BA395C28C36693C27D1986 |                                |
| 81                | CN = GlobalSign GCC R3 EV QWAC CA 2020,<br>O = GlobalSign nv-sa,<br>C = BE      | D4A5941C7141ED1949A0C6CE9DD45A0AB94DC337902EB0A1209852738EEBE854 |                                |
| 82                | CN = GlobalSign Atlas E46 EV QWAC CA 2022Q1,<br>O = GlobalSign nv-sa,<br>C = BE | 4D81D18D57CDA96440CBFD0FA05CC387B7C69DE3A9E68B4036E1168EE2B7BD21 | Revoked on<br>October 20, 2023 |
| 83                | CN = GlobalSign Atlas E46 EV QWAC CA 2022Q2,<br>O = GlobalSign nv-sa,<br>C = BE | ED2B6C6F6C669EEC6C158B0FD61E4454185C42842523866F3B3EE9B1F0F62882 | Revoked on<br>October 20, 2023 |
| 84                | CN = GlobalSign Atlas E46 EV QWAC CA 2022Q3,<br>O = GlobalSign nv-sa,<br>C = BE | 0DA5820FD4FCF9B9F94C140DB0F06D670D86FCB1BDD9597BCA8731532F353C   | Revoked on<br>October 20, 2023 |



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| EV TLS Issuing CA |  |  |                                |
|-------------------|--|--|--------------------------------|
| #                 | Subject DN   | SHA256 Fingerprint   | Other information              |
| 85                | CN = GlobalSign Atlas E46 EV QWAC CA<br>2022Q4,<br>O = GlobalSign nv-sa,<br>C = BE | 4EF99E6A8B14F69938715371B1D853472534CBF595A743CE993E7B386F99B895 | Revoked on<br>October 20, 2023 |
| 86                | CN = GlobalSign Atlas E46 EV QWAC CA<br>2023Q1,<br>O = GlobalSign nv-sa,<br>C = BE | F9120A71D50697B9992A7357A0A9A0DDC4BFC3598FCB4F01642964824D3CF276 | Revoked on<br>October 20, 2023 |
| 87                | CN = GlobalSign Atlas E46 EV QWAC CA<br>2023Q2,<br>O = GlobalSign nv-sa,<br>C = BE | F4C5F3956379493830DE7456E0A55D6FBC1B8EA08B756488FF005B6C394A69C7 | Revoked on<br>October 20, 2023 |
| 88                | CN = GlobalSign Atlas E46 EV QWAC CA<br>2023Q3,<br>O = GlobalSign nv-sa,<br>C = BE | 430B172A6F7146B16A75BCC5BFA1D60C61DEEAA2ABAC61B4394E4A6B291C48CC | Revoked on<br>October 20, 2023 |
| 89                | CN = GlobalSign Atlas E46 EV QWAC CA<br>2023Q4,<br>O = GlobalSign nv-sa,<br>C = BE | 2DA52277662DC1C779E2439FAF58F85F87DBA73E0F16F1B0EB310A4919CFC3BA | Revoked on<br>October 20, 2023 |
| 90                | CN = GlobalSign Atlas R3 EV QWAC CA<br>2022Q1,<br>O = GlobalSign nv-sa,<br>C = BE  | F2BC379B1EF45624D8F822B6E359502D470F384E53C082F7AE21869C13A5D345 | Revoked on<br>October 20, 2023 |
| 91                | CN = GlobalSign Atlas R3 EV QWAC CA<br>2022Q2,<br>O = GlobalSign nv-sa,<br>C = BE  | 250AFA50B60D30D1217D00E7DD8CCE6B51F5C0B6A6369324842C37DEB44F9715 | Revoked on<br>October 20, 2023 |
| 92                | CN = GlobalSign Atlas R3 EV QWAC CA<br>2022Q3,<br>O = GlobalSign nv-sa,<br>C = BE  | 9D51DC2750A13BD627D99FDCC720D1904FE81059110BB9DE11B039A4B2ECA531 | Revoked on<br>October 20, 2023 |





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| EV TLS Issuing CA |   |  |                                     |
|-------------------|---|--|-------------------------------------|
| #                 | Subject DN  | SHA256 Fingerprint   | Other information                   |
| 93                | CN = GlobalSign Atlas R3 EV QWAC CA<br>2022Q4,<br>O = GlobalSign nv-sa,<br>C = BE                 | 451FA3A18064B4DD03ADFE8B8BBF16258CB98A1A6FEE5D6B0A37C98A0B5E6DAE | Revoked on<br>October 20, 2023      |
| 94                | CN = GlobalSign Atlas R46 EV QWAC CA<br>2023Q1,<br>O = GlobalSign nv-sa,<br>C = BE                | A7DCFD3D09377C39BA3A7F630E052EC593E9726D1DA57229E599D15AD6DCCA7B | Revoked on<br>October 20, 2023      |
| 95                | CN = GlobalSign Atlas R46 EV QWAC CA<br>2023Q2,<br>O = GlobalSign nv-sa,<br>C = BE                | A40C91E466D62CDB32B7139E8748F0EB5A817F6BB8A9F999A7A9BF4306D6D5D5 | Revoked on<br>October 20, 2023      |
| 96                | CN = GlobalSign Atlas R46 EV QWAC CA<br>2023Q3,<br>O = GlobalSign nv-sa,<br>C = BE                | 29C840D062AC862DB4D20928D2AEFD83B35A46BD4533995FF2EFD3E3EE8CFFD9 | Revoked on<br>October 20, 2023      |
| 97                | CN = GlobalSign Atlas R46 EV QWAC CA<br>2023Q4,<br>O = GlobalSign nv-sa,<br>C = BE                | B51D85A08FACB06F97FDF58563749003033EE77DD583986204499197CA8E7077 | Revoked on<br>October 20, 2023      |
| 98                | CN = Valid Certificadora Digital SSL EV CA<br>2018,<br>O = VALID CERTIFICADORA DIGITAL,<br>C = BR | 8AEFEBD88BE87A30B19C60C5BD0FB5E9FBCD15D5582D5FC9A7499578D68DCEC0 | Expired on<br>September 19,<br>2023 |



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| Timestamp CA |  |  |                   |
|--------------|--|--|-------------------|
| #            | Subject DN   | SHA256 Fingerprint   | Other information |
| 99           | CN = GlobalSign Timestamping CA - SHA384 - G4,<br>O = GlobalSign nv-sa,<br>C = BE          | F642418E4D0C63DEC785C960EFA68BA745F38851744EF81F225CB89305314D50 |                   |
| 100          | CN = GlobalSign TSA CA for AATL,<br>O = GlobalSign nv-sa,<br>C = BE                        | 4D8EB49380EC72AC9FDF21FE1C6DB2E9490C76BEADD1F7B528C3CCD272C8FE28 |                   |
| 101          | CN = GlobalSign Partners Timestamping CA - SHA384 - G4,<br>O = GlobalSign nv-sa,<br>C = BE | 2A015531A5F3A4CE589BD853C71DD069587322F574D85C9C9B9F9DF8F86C075E |                   |
| 102          | CN = GlobalSign Timestamping CA - G2,<br>O = GlobalSign nv-sa,<br>C = BE                   | C977923C771E1A66C925A2B6F501732E678DC9887AFE6BFAAC039D1D9A71F0EC |                   |
| 103          | CN = GlobalSign Timestamping CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE          | 9BF9496777D14425ED0086C1BB2C0707B62A61C194C5162E4F07637AFF166B76 |                   |
| 104          | CN = GlobalSign Timestamping CA,<br>O = GlobalSign,<br>OU = Timestamping CA                | D0CAE6947BC77F0B495CA808D6CDE685FCD20225E1E530B635B113ED40728EF3 |                   |
| 105          | CN = GlobalSign Timestamping CA - R3,<br>O = GlobalSign,<br>OU = Timestamping CA           | 61C1067083AE044EF1D649CE590BBF09D9D739E025DA8D195F71CFAAD6EBAE69 |                   |



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| Other CA |   |  |                   |
|----------|---|--|-------------------|
| #        | Subject DN  | SHA256 Fingerprint   | Other information |
| 106      | CN = GlobalSign Root E46,<br>O = GlobalSign nv-sa,<br>C = BE            | 33EF151EFB08D1C44FB85CC3F23EC6873014E9F881691BD4938B7F251580B694 |                   |
| 107      | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign Root CA - R6     | C84E1378B974A991ACDCDD733421E3061E6FA21A0491C8902BAFDE3855E0063E |                   |
| 108      | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign ECC Root CA - R5 | F349954E8FB6D44011BCB789D97D9A2CB2032BD5F0B598D1FB8A099F5848D523 |                   |
| 109      | CN = GlobalSign Root R46,<br>O = GlobalSign nv-sa,<br>C = BE            | A5E33C28E3013A71F5F760AE3B16595090043D2EC5209EC52903C4FBAD258DAD |                   |
| 110      | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign Root CA - R6     | DDA8DA736187D76F4F0ED5A5F667B54D99A98AE06091D0E3A01714E9221695AD |                   |
| 111      | CN = GlobalSign Root E46,<br>O = GlobalSign nv-sa,<br>C = BE            | 0F1554C2FD591B0256A608E1C136A837E7A6E041561EE08A911B2AFDCD3C6C1B |                   |
| 112      | CN = GlobalSign Root R46,<br>O = GlobalSign nv-sa,<br>C = BE            | A63C1398B5F8DD2D432FBE4C2C19142BEA6D5D0221FAE794718AE7597ACCA96D |                   |
| 113      | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign ECC Root CA - R5 | 3F319B2AFED4A0F75127BE59925550D0428E68763A09E273EB6A9FF8D18DBB5B |                   |
| 114      | CN = GlobalSign Root R46,<br>O = GlobalSign nv-sa,<br>C = BE            | 45CB1D874CB03BD5C5B6E079C8FC29E51521EE5628486301964A41F94BA59F88 |                   |



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| Other CA |  |  |   |
|----------|--|--|---|
| #        | Subject DN   | SHA256 Fingerprint   | Other information                             |
| 115      | CN = GlobalSign Root E46,<br>O = GlobalSign nv-sa,<br>C = BE                                       | 1DF6054D6641404633641BB5FA3742FDA7D075E2514840AB61E00CCBBB7D341D |   |
| 116      | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign Root CA - R3                                | 445EEC78BC61215044A0379656AA2D5DB5E42F76CB70B8D14C2077AA943D4EBB |   |
| 117      | CN = GlobalSign Partners TSA CA for AATL,<br>O = GlobalSign nv-sa,<br>C = BE                       | 7E8F914119BB1090D6204908E5AE1F40BE24C1491CD7D5CFB6A93618CBC00FD9 |   |
| 118      | CN = GlobalSign CA for AATL - SHA384 - G4,<br>O = GlobalSign nv-sa,<br>C = BE                      | AC0AB963BB5F3DA05FBC8687F98C2B6EA0BB499E6118C1A9136B1BC7C3C71A6B |   |
| 119      | CN = GTS Root R1,<br>O = Google Trust Services LLC,<br>C = US                                      | 3EE0278DF71FA3C125C4CD487F01D774694E6FC57E0CD94C24EFD769133918E5 | In Google Trust Services LLC Audit Report (*) |
| 120      | CN = Hongkong Post Root CA 3,<br>O = Hongkong Post,<br>L = Hong Kong,<br>ST = Hong Kong,<br>C = HK | 00482341B104A0DE6E0F1D508DB84CB514F7494FE04982133A5C750136C55DC8 | In Hong Kong Post Audit Report (*)            |
| 121      | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign Root CA - R3                                | C94FEDDA4E8608908580BC7F87B434E03BB262E42F64C63820A8F50FB17C1CEC |   |
| 122      | CN = GlobalSign CA for AATL - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE                      | AA89C466E9D06882C0DAAF72BE0F0FBCFE7C1EF2AAAD190640C4AD44F5517F34 |   |

\* 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               | United Arab Emirates | 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           |
| US-01               | United States        | New Hampshire    |



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## Appendix D - Publicly disclosed incidents

| ID      | Disclosure  | Publicly Disclosed Link              |
|---------|---|--------------------------------------|
| 1829195 | GlobalSign: CRLs reported in CCADB unavailable  | <a href="#">Bugzilla Ticket Link</a> |
| 1836443 | GlobalSign: Issuance of test EV SSL/QWAC pre-certificate with no EKU extension                    | <a href="#">Bugzilla Ticket Link</a> |
| 1845803 | GlobalSign: Three (3) revoked precertificates with reasonCode "certificateHold"                   | <a href="#">Bugzilla Ticket Link</a> |
| 1850091 | GlobalSign: EV TLS certificate with only metadata in JOI State field                              | <a href="#">Bugzilla Ticket Link</a> |
| 1866806 | GlobalSign: S/MIME Sponsor validated certificates with CommonName value equal to OrganizationName | <a href="#">Bugzilla Ticket Link</a> |
| 1870276 | GlobalSign: TLS OV Certificate containing unverified information                                  | <a href="#">Bugzilla Ticket Link</a> |

## **GLOBALSIGN'S MANAGEMENT ASSERTION**

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

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

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

GlobalSign management has assessed its disclosures of its certificate practices and controls over its EV SSL CA services. Based on that assessment, in GlobalSign management's opinion, in providing its EV SSL Certification Authority (CA) services at its locations as detailed in Appendix C, throughout the period April 1, 2023 to March 31, 2024, GlobalSign has:

- disclosed its extended validation SSL ("EV SSL") certificate lifecycle management business practices in the applicable versions of the Certificate Practice Statement and Certificate Policy, as enumerated in Appendix A, including its commitment to provide EV SSL certificates in conformity with the CA/Browser Forum Requirements, on the GlobalSign website, and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
  - the integrity of keys and EV SSL certificates it manages is established and protected throughout their life cycles; and
  - EV SSL subscriber information is properly collected, authenticated (for the registration activities performed by GlobalSign

in accordance with the WebTrust Principles and Criteria for Certification Authorities – Extended Validation SSL, version 1.8

Additionally, GlobalSign has disclosed the attached comments (Appendix D) that have been posted publicly in the online forums of the Bugzilla site, as well as the online forums of individual internet browsers that comprise the CA/Browser Forum.



Leuven, June 28, 2024

GlobalSign NV/SA

*Original signed by*

Arvid Vermote

Chief Information Security Officer

GlobalSign NV/SA

Diestsevest 14, 3000 Leuven Belgium

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

Web: [www.globalsign.com](http://www.globalsign.com) | Email: [sales@globalsign.com](mailto:sales@globalsign.com)



## Appendix A: Certification Practice Statements and Certificate Policies in Scope

| Certification Practice statement | Begin Effective Date | End Effective Date |
|----------------------------------|----------------------|--------------------|
| <u>Version 10.0</u>              | March 28, 2023       | August 21, 2023    |
| <u>Version 10.1</u>              | August 21, 2023      | November 15, 2023  |
| <u>Version 10.2</u>              | November 15, 2023    | March 29, 2024     |
| <u>Version 10.3</u>              | March 29, 2024       |                    |

| Certification Policy | Begin Effective Date | End Effective Date |
|----------------------|----------------------|--------------------|
| <u>Version 7.0</u>   | March 28, 2023       | August 21, 2023    |
| <u>Version 7.1</u>   | August 21, 2023      | November 15, 2023  |
| <u>Version 7.2</u>   | November 15, 2023    | March 29, 2024     |
| <u>Version 7.3</u>   | March 29, 2024       |                    |



## Appendix B: List of CAs in scope

The following CAs were in scope of the WebTrust for CA – Extended Validation SSL audit:

| Root CA |  |   |                   |
|---------|--|---|-------------------|
| #       | Subject DN   | SHA256 Fingerprint  | Other information |
| 1       | CN = GlobalSign Root CA,<br>OU = Root CA,<br>O = GlobalSign nv-sa,<br>C = BE | EBD41040E4BB3EC742C9E381D31EF2A41A48B6685C96E7CEF3C1DF6CD4331C99  |                   |
| 2       | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign Root CA - R3          | CBB522D7B7F127AD6A0113865BDF1CD4102E7D0759AF635A7CF4720DC963C53B  |                   |
| 3       | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign ECC Root CA - R5      | 179FBC148A3DD00FD24EA13458CC43BFA7F59C8182D783A513F6EBEC100C8924  |                   |
| 4       | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign Root CA - R6          | 2CABEAFFE37D06CA22ABA7391C0033D25982952C453647349763A3AB5AD6CCF69 |                   |
| 5       | CN = GlobalSign Root R46,<br>O = GlobalSign nv-sa,<br>C = BE                 | 4FA3126D8D3A11D1C4855A4F807CBAD6CF919D3A5A88B03BEA2C6372D93C40C9  |                   |
| 6       | CN = GlobalSign Root E46,<br>O = GlobalSign nv-sa,<br>C = BE                 | CBB9C44D84B8043E1050EA31A69F514955D7BFD2E2C6B49301019AD61D9F5058  |                   |
| 7       | CN = GlobalSign Secure Mail Root R45,<br>O = GlobalSign nv-sa,<br>C = BE     | 319AF0A7729E6F89269C131EA6A3A16FCD86389FDCAB3C47A4A675C161A3F974  |                   |
| 8       | CN = GlobalSign Secure Mail Root E45,<br>O = GlobalSign nv-sa,<br>C = BE     | 5CBF6FB81FD417EA4128CD6F8172A3C9402094F74AB2ED3A06B4405D04F30B19  |                   |



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| Root CA |  |  |                   |
|---------|--|--|-------------------|
| #       | Subject DN   | SHA256 Fingerprint   | Other information |
| 9       | CN = GlobalSign Code Signing Root R45,<br>O = GlobalSign nv-sa,<br>C = BE          | 7B9D553E1C92CB6E8803E137F4F287D4363757F5D44B37D52F9FCA22FB97DF86 |                   |
| 10      | CN = GlobalSign Code Signing Root E45,<br>O = GlobalSign nv-sa,<br>C = BE          | 26C6C5FD4928FD57A8A4C5724FDD279745869C60C338E262FFE901C31BD1DB2B |                   |
| 11      | CN = GlobalSign Document Signing Root R45,<br>O = GlobalSign nv-sa,<br>C = BE      | 38BE6C7EEB4547D82B9287F243AF32A9DEEB5DC5C9A87A0056F938D91B456A5A |                   |
| 12      | CN = GlobalSign Document Signing Root E45,<br>O = GlobalSign nv-sa,<br>C = BE      | F86973BDD0514735E10C1190D0345BF89C77E1C4ADBD3F65963B803FD3C9E1FF |                   |
| 13      | CN = GlobalSign Timestamping Root R45,<br>O = GlobalSign nv-sa,<br>C = BE          | 2BCBBFD66282C680491C8CD7735FDBBAB7A8079B127BEC60C535976834399AF7 |                   |
| 14      | CN = GlobalSign Client Authentication Root R45,<br>O = GlobalSign nv-sa,<br>C = BE | 165C7E810BD37C1D57CE9849ACCD500E5CB01EEA37DC550DB07E598AAD2474A8 |                   |
| 15      | CN = GlobalSign Client Authentication Root E45,<br>O = GlobalSign nv-sa,<br>C = BE | 8B0F0FAA2C00FE0532A8A54E7BC5FD139C1922C4F10F0B16E10FB8BE1A634964 |                   |
| 16      | CN = GlobalSign Timestamping Root E46,<br>O = GlobalSign nv-sa,<br>C = BE          | 4774674B94B78F5CCBEF89FDDEBDABBD894A71B55576B8CC5E6876BA3EAB4538 |                   |

**GlobalSign NV/SA**

Diestsevest 14, 3000 Leuven Belgium

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

Web: [www.globalsign.com](http://www.globalsign.com) | Email: [sales@globalsign.com](mailto:sales@globalsign.com)



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| DV TLS Issuing CA |  |  |                   |
|-------------------|--|--|-------------------|
| #                 | Subject DN   | SHA256 Fingerprint   | Other information |
| 17                | CN = GlobalSign Domain Validation CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE | 37D080A5E9A526663E56EE20DE4BD9F7952DACC341491439080167AD5DD18CAC |                   |
| 18                | CN = AlphaSSL CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE                     | 8C2410F76B149CA062B420AB611B6BF0A06E6E799A29587E4D4EC16D0537B7EA |                   |
| 19                | CN = GlobalSign Domain Validation CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE | BFDF4CF3F143AD0DB912D8AB3A7C12F617B9EA60CE8B1F4E44F74270FB21B19B |                   |
| 20                | CN = AlphaSSL CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE                     | EE793643199474ED60EFD8CCDE4D37445921683593AA751BBF8EE491A391E97  |                   |
| 21                | CN = GlobalSign Atlas R3 DV TLS CA 2020,<br>O = GlobalSign nv-sa,<br>C = BE            | B65FE6A1BF2D52FF68B7D3E9D0F06B300A1C3F248309B70405CA7BDEC054BDDD |                   |
| 22                | CN = Soluti CA - DV,<br>O = SOLUTI - SOLUCOES EM NEGOCIOS INTELIGENTES S/A,<br>C = BR  | 5C452334D9C9C9A2EA42CC77A7165E1795EE9D84EB70CB784B47EA9D92A582D9 |                   |
| 23                | CN = GlobalSign Domain Validation CA - SHA256 - G3,<br>O = GlobalSign nv-sa,<br>C = BE | 09BC1B137C031239EF788673E94EB17F5F3ECAB07D3ADBFB485E75ABFAAF3B9A |                   |
| 24                | CN = GlobalSign GCC R3 DV TLS CA 2020,<br>O = GlobalSign nv-sa,<br>C = BE              | 762538439509C411C437D3C567563E1378671281FC4A1464ADD031870843676E |                   |
| 25                | CN = AlphaSSL CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE                     | 5A817EADA4AD78734EBB2CF674352D97F4352290C40EAF10E764B1EAC075B0E6 |                   |

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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](http://www.globalsign.com) | Email: [sales@globalsign.com](mailto:sales@globalsign.com)



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| <b>DV TLS Issuing CA</b> |  |  |                                  |
|--------------------------|--|--|----------------------------------|
| <b>#</b>                 | <b>Subject DN</b>  | <b>SHA256 Fingerprint</b>  | <b>Other information</b>         |
| 26                       | CN = Valid Certificadora Digital AlphaSSL CA 2018,<br>O = VALID CERTIFICADORA DIGITAL,<br>C = BR | 04DE47A9CDD3091CFC5EF6AAA3B7D4B53E13C4D4DC02364F6C0B408742EC3C76 | Expired on<br>September 19, 2023 |
| 27                       | CN = Valid Certificadora Digital SSL DV CA 2018,<br>O = VALID CERTIFICADORA DIGITAL,<br>C = BR   | FCF26FBC1B2A25A76AB4EA92B2CBEF367E0131091C802DA49898F78AE54B30F8 | Expired on<br>September 19, 2023 |

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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](http://www.globalsign.com) | Email: [sales@globalsign.com](mailto:sales@globalsign.com)



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|-------------------|---|--|-------------------|
| #                 | Subject DN  | SHA256 Fingerprint   | Other information |
| 28                | CN = GlobalSign Organization Validation CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE    | 1C9737E968AD9DFF8D8D7FCF996A144BB97851A19011A0190C943CAE8D43CFE0 |                   |
| 29                | CN = GlobalSign Organization Validation CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE    | 74EF335E5E18788307FB9D89CB704BEC112ABD23487DBFF41C4DED5070F241D9 |                   |
| 30                | CN = GlobalSign ECC OV SSL CA 2018,<br>O = GlobalSign nv-sa,<br>C = BE                          | 87C71553445EB3C33C3E0710711B99E9C7773F04D91AC38A9F4C082EE24101EA |                   |
| 31                | CN = GlobalSign RSA OV SSL CA 2018,<br>O = GlobalSign nv-sa,<br>C = BE                          | B676FFA3179E8812093A1B5EAFEE876AE7A6AAF231078DAD1BFB21CD2893764A |                   |
| 32                | CN = GlobalSign Organization Validated ECC CA - SHA256 - G4,<br>O = GlobalSign nv-sa,<br>C = BE | 65EEC0CC6C970CC1CD73659115DC8D904E6F12E6DC8FD4DDA39D54CB30224780 |                   |
| 33                | CN = GlobalSign Organization Validated CA - SHA256 - G4,<br>O = GlobalSign nv-sa,<br>C = BE     | 1E1741A12EB8DA2BD76EA96C04F520359839710F620E80952F48DD0240A12CD8 |                   |
| 34                | CN = GlobalSign Organization Validation CA - SHA256 - G3,<br>O = GlobalSign nv-sa,<br>C = BE    | 699D54B7482A5D329331EA0415CC2EDCD60FDA01D19E71D054196BCE0677735C |                   |
| 35                | CN = Trusted Root TLS CA SHA256 G3,<br>O = GlobalSign nv-sa,<br>C = BE                          | 91F19CE503C9FE7FF9587D8EFBEF7315AAEE77DC2D14526126493B4AD6FE801F |                   |

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

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|-------------------|---|--|-------------------|
| #                 | Subject DN  | SHA256 Fingerprint   | Other information |
| 36                | CN = GlobalSign Atlas R46 EV TLS CA 2024 Q2,<br>O = GlobalSign nv-sa,<br>C = BE | D5816A7FD5FA18D3E0C44C78273FA856BE0A3A993428826763E3A88086311986 |                   |
| 37                | CN = GlobalSign Atlas E46 EV TLS CA 2024 Q2,<br>O = GlobalSign nv-sa,<br>C = BE | 04E808603BE46B2534562E3DE237F4AE7ABE2B5E3141D8DEC470A822370D3DB7 |                   |
| 38                | CN = GlobalSign Atlas R6 EV TLS CA 2024 Q2,<br>O = GlobalSign nv-sa,<br>C = BE  | 91DDDCB95C82585A3D8645F665CE7B8B606569F6941D33BD9DDA338A5EF6D4C2 |                   |
| 39                | CN = GlobalSign Atlas E46 EV TLS CA 2024 Q1,<br>O = GlobalSign nv-sa,<br>C = BE | D78BE04CDBE328D5493489067B8DF1C57E65EA74D8888F08C711E815A6A11A14 |                   |
| 40                | CN = GlobalSign Atlas R46 EV TLS CA 2024 Q1,<br>O = GlobalSign nv-sa,<br>C = BE | 60B846638922190DE52C1AB044FD2FA88A9D6DF3989831C00C84296B8DB7A5EE |                   |
| 41                | CN = GlobalSign Atlas R6 EV TLS CA 2024 Q1,<br>O = GlobalSign nv-sa,<br>C = BE  | 020EEC98A3C1ED2D5BE21193349ACB9751DE071D6B452A489A6A867CE9B633E9 |                   |
| 42                | CN = GlobalSign Atlas R1 EV TLS CA 2023,<br>O = GlobalSign nv-sa,<br>C = BE     | BFB08828EB69B99EE7CEBDD687C8E883A1FE07D3F998347F92EE9356414AD002 |                   |
| 43                | CN = GlobalSign Atlas E46 EV TLS CA 2023 Q4,<br>O = GlobalSign nv-sa,<br>C = BE | 1DFFC2AD5B423DCC715DFE54AA117F2525974D9571FEA82819232807F4ADD4EE |                   |
| 44                | CN = GlobalSign Atlas R46 EV TLS CA 2023 Q4,<br>O = GlobalSign nv-sa,<br>C = BE | B97E1037E4CD5C069271600AFD1FF345EEAE1BC2C023A5FBA8B163260FCA5DAB |                   |

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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](http://www.globalsign.com) | Email: [sales@globalsign.com](mailto:sales@globalsign.com)



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|-------------------|---|---|-------------------|
| #                 | Subject DN  | SHA256 Fingerprint  | Other information |
| 45                | CN = GlobalSign Atlas R6 EV TLS CA 2023 Q4,<br>O = GlobalSign nv-sa,<br>C = BE              | 4959306BAE8C548D319D1855C34493F7AD00B9BAF824BDFD96FF2C3C32BDAAEEA |                   |
| 46                | CN = GlobalSign ECC EV SSL CA 2018,<br>O = GlobalSign nv-sa,<br>C = BE                      | 8F19FFE02FC795ED70765D1436ADDF772FE0F0773DA436EDBDB42A2E30E2E828  |                   |
| 47                | CN = GlobalSign Extended Validation CA -<br>SHA256 - G3,<br>O = GlobalSign nv-sa,<br>C = BE | AED5DD9A5339685DFB029F6D89A14335A96512C3CACC52B2994AF8B6B37FA4D2  |                   |
| 48                | CN = GlobalSign Atlas E46 EV TLS CA 2023<br>Q3,<br>O = GlobalSign nv-sa,<br>C = BE          | 40D44FA09A260E8FCD527293AA965F247B31E2104FA51B36D263B0479FB828F2  |                   |
| 49                | CN = GlobalSign Atlas R46 EV TLS CA 2023<br>Q3,<br>O = GlobalSign nv-sa,<br>C = BE          | 2335D5EDFA507EB56B7DAC00F434D55B9565A6F968E4CD3AC01BAC2317A10B16  |                   |
| 50                | CN = GlobalSign Atlas R6 EV TLS CA 2023 Q3,<br>O = GlobalSign nv-sa,<br>C = BE              | D454487FBE3B2CBC10C3023E73AEE27F3E3640726CE7BB03BB4244B50CB2F4C4  |                   |
| 51                | CN = GlobalSign Atlas E46 EV TLS CA 2023<br>Q2,<br>O = GlobalSign nv-sa,<br>C = BE          | B95D0B51AAB7504D0F8780173B8C395DD718371BA61ADE30C11B1B77B33EC01B  |                   |
| 52                | CN = GlobalSign Atlas R46 EV TLS CA 2023<br>Q2,<br>O = GlobalSign nv-sa,<br>C = BE          | BA0DF2D121A739E0002AA19B5B2400F4204A324F28669356CEB0B1B2DADF8B86  |                   |
| 53                | CN = GlobalSign Atlas R6 EV TLS CA 2023 Q2,<br>O = GlobalSign nv-sa,<br>C = BE              | AEDCC1DBC44D96F692BD451D76A3229839151D5BE82FE8D0D1B23030F48FB19   |                   |

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

Web: [www.globalsign.com](http://www.globalsign.com) | Email: [sales@globalsign.com](mailto:sales@globalsign.com)





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|-------------------|---|--|-------------------|
| #                 | Subject DN  | SHA256 Fingerprint   | Other information |
| 54                | CN = GlobalSign Atlas E46 EV TLS CA 2023 Q1,<br>O = GlobalSign nv-sa,<br>C = BE | 8D1EE31E047C9E604CF0603A9076DC45A7BD4D4AF4584D2156F03752626D8A6E |                   |
| 55                | CN = GlobalSign Atlas R46 EV TLS CA 2023 Q1,<br>O = GlobalSign nv-sa,<br>C = BE | A02C04DAB0B317A4910753F2F74E3C78B39AD210E5CB72870B278122AD35B265 |                   |
| 56                | CN = GlobalSign Atlas R6 EV TLS CA 2023 Q1,<br>O = GlobalSign nv-sa,<br>C = BE  | 1083D57464FD5128B80B22965FA205E13168DDFCCDF17A7095F3BE0ED0AB3A91 |                   |
| 57                | CN = GlobalSign Atlas E46 EV TLS CA 2022 Q4,<br>O = GlobalSign nv-sa,<br>C = BE | A34B15C8D1C296106ACBC14680160027B1FA49114C21BD99B3AE59BD8C4C7B54 |                   |
| 58                | CN = GlobalSign Atlas R46 EV TLS CA 2022 Q4,<br>O = GlobalSign nv-sa,<br>C = BE | B050000CF749EC658A6B9ED8D4C3A393435644A327603FB036327E32A47BFBA4 |                   |
| 59                | CN = GlobalSign Atlas R6 EV TLS CA 2022 Q4,<br>O = GlobalSign nv-sa,<br>C = BE  | C1262AC6412075B2513AE5E563FCCEDB4B3E59B812695EE0CD87223A2C2D048B |                   |
| 60                | CN = GlobalSign Atlas E46 EV TLS CA 2022 Q3,<br>O = GlobalSign nv-sa,<br>C = BE | 4006CDFF6D8D52DC090FF5382B9C30CEA8CC5005DF2D5E8203CD67921797750D |                   |
| 61                | CN = GlobalSign Atlas R46 EV TLS CA 2022 Q3,<br>O = GlobalSign nv-sa,<br>C = BE | 0ED5AA0061D09B703E1B3150FB6367870BBF245CCEED4FE08F2DBE4201723A8D |                   |
| 62                | CN = GlobalSign Atlas R6 EV TLS CA 2022 Q3,<br>O = GlobalSign nv-sa,<br>C = BE  | 0C92594BD394B4887A1D66EC5E631FFAD3BA4B07FE2EB6D15D2F5FEE4C90C454 |                   |

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

Web: [www.globalsign.com](http://www.globalsign.com) | Email: [sales@globalsign.com](mailto:sales@globalsign.com)



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|-------------------|---|--|-------------------|
| #                 | Subject DN  | SHA256 Fingerprint   | Other information |
| 63                | CN = GlobalSign Atlas E46 EV TLS CA 2022 Q2,<br>O = GlobalSign nv-sa,<br>C = BE | 5E2A73EE6069DE65322DCF0430176B385F5238C296EE4392E7ED7DB4BE908A40 |                   |
| 64                | CN = GlobalSign Atlas R46 EV TLS CA 2022 Q2,<br>O = GlobalSign nv-sa,<br>C = BE | 398DC562DC098CF75F3A151216E583380C279444B0D63E766D9FDF6F47D04C60 |                   |
| 65                | CN = GlobalSign Atlas R6 EV TLS CA 2022 Q2,<br>O = GlobalSign nv-sa,<br>C = BE  | 256602DC8A8041B2EDC0CAE611A6A98D9B39AD4DE3E19F62DC0A0A1958B72271 |                   |
| 66                | CN = GlobalSign Atlas E46 EV TLS CA 2022 Q1,<br>O = GlobalSign nv-sa,<br>C = BE | 9C9D5E986B5BEA7A1EC8457EBCAA600D2435803B91FEC97C4E5043BE6742D4B1 |                   |
| 67                | CN = GlobalSign Atlas R46 EV TLS CA 2022 Q1,<br>O = GlobalSign nv-sa,<br>C = BE | 4CFA14BC7E8F48D4677B0604777AF76AB0C55B326F8B97BA95F6ACE115C05F16 |                   |
| 68                | CN = GlobalSign Atlas R6 EV TLS CA 2022 Q1,<br>O = GlobalSign nv-sa,<br>C = BE  | C9A74009DAE194A40BD122ABD015D44E93CB7879B0949054A31042EF4C99E5D6 |                   |
| 69                | CN = GlobalSign Atlas R6 EV TLS CA H2 2021,<br>O = GlobalSign nv-sa,<br>C = BE  | 0ABB1CDE53CCAC170483DAFCD3CDB9F2622BA7E47D31EC0FD3DB271B4AAA5303 |                   |
| 70                | CN = GlobalSign Atlas R46 EV TLS CA H2 2021,<br>O = GlobalSign nv-sa,<br>C = BE | 385AA00A1848F807F665561E888B0D4F69614052D825F3C33970E00F4C3658DD |                   |
| 71                | CN = GlobalSign Atlas E46 EV TLS CA H2 2021,<br>O = GlobalSign nv-sa,<br>C = BE | 44E683576E1C960D784D17BB2325C25CF1BE4E20470C31D9D73CACED496C95C9 |                   |

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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](http://www.globalsign.com) | Email: [sales@globalsign.com](mailto:sales@globalsign.com)



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|-------------------|--|--|-------------------|
| #                 | Subject DN   | SHA256 Fingerprint   | Other information |
| 72                | CN = CUISEC GCC R3 TLS EV CA 2021,<br>O = 联通智慧安全科技有限公司,<br>C = CN                        | 9BFABD8D91284500B4D412C5725C87CB3A013F940FF1E62810E6929C69393ED9 |                   |
| 73                | CN = Soluti CA - EV,<br>O = SOLUTI - SOLUCOES EM NEGOCIOS<br>INTELIGENTES S/A,<br>C = BR | 11FBA4A7EE579C70E1D57F9F9B6A8C209E1219C4F1D3846F83FFCE74E9E5E2CE |                   |
| 74                | CN = GlobalSign Atlas R6 EV TLS CA 2020,<br>O = GlobalSign nv-sa,<br>C = BE              | BCE7091355D2417A37F8CFE2AC8F17C2748888BA0EEA90000FC980ECFC2D041F |                   |
| 75                | CN = GlobalSign Atlas E46 EV TLS CA 2020,<br>O = GlobalSign nv-sa,<br>C = BE             | 364DF25CC88F6FB0202C02CD9B8EA02DFE8AC02341EFF5A9DFFC5BE159ED5991 |                   |
| 76                | CN = GlobalSign Atlas R46 EV TLS CA 2020,<br>O = GlobalSign nv-sa,<br>C = BE             | E1E15D289697AF3285BF34112A3E60BC11C0C8122DD2B9B3420AB2E5E57883CA |                   |
| 77                | CN = Keysec GR3 EV TLS CA 2024,<br>O = KEYSEC LTDA,<br>C = BR                            | 9173EFAEA4E61855EB858D107DBA94A1CD18CAE00EAF9C7EDB57201AD99A9BFD |                   |
| 78                | CN = GlobalSign GCC E5 UK EV QWAC CA<br>2021,<br>O = GMO GlobalSign Ltd,<br>C = GB       | 0966A88729C938F9DCD65BB3C63B608618EAE5183ED1FED752B323089687A20E |                   |
| 79                | CN = GlobalSign GCC E5 EV QWAC CA 2021,<br>O = GlobalSign nv-sa,<br>C = BE               | 0DD2C7E0AF8200F49F4192A89AE634D4CE41B80C63B0629CC68E538C316F020E |                   |
| 80                | CN = GlobalSign GCC R3 UK EV QWAC CA<br>2020,<br>O = GMO GlobalSign Ltd,<br>C = GB       | A33017D9DF494C09D58709107403AEE461B9461E81BA395C28C36693C27D1986 |                   |

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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](http://www.globalsign.com) | Email: [sales@globalsign.com](mailto:sales@globalsign.com)



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|-------------------|--|--|--------------------------------|
| #                 | Subject DN   | SHA256 Fingerprint   | Other information              |
| 81                | CN = GlobalSign GCC R3 EV QWAC CA 2020,<br>O = GlobalSign nv-sa,<br>C = BE         | D4A5941C7141ED1949A0C6CE9DD45A0AB94DC337902EB0A1209852738EEBE854 |                                |
| 82                | CN = GlobalSign Atlas E46 EV QWAC CA<br>2022Q1,<br>O = GlobalSign nv-sa,<br>C = BE | 4D81D18D57CDA96440CBFD0FA05CC387B7C69DE3A9E68B4036E1168EE2B7BD21 | Revoked on<br>October 20, 2023 |
| 83                | CN = GlobalSign Atlas E46 EV QWAC CA<br>2022Q2,<br>O = GlobalSign nv-sa,<br>C = BE | ED2B6C6F6C669EEC6C158B0FD61E4454185C42842523866F3B3EE9B1F0F62882 | Revoked on<br>October 20, 2023 |
| 84                | CN = GlobalSign Atlas E46 EV QWAC CA<br>2022Q3,<br>O = GlobalSign nv-sa,<br>C = BE | 0DA5820FD4E4FCF9B9F94C140DB0F06D670D86FCB1BDD9597BCA8731532F353C | Revoked on<br>October 20, 2023 |
| 85                | CN = GlobalSign Atlas E46 EV QWAC CA<br>2022Q4,<br>O = GlobalSign nv-sa,<br>C = BE | 4EF99E6A8B14F69938715371B1D853472534CBF595A743CE993E7B386F99B895 | Revoked on<br>October 20, 2023 |
| 86                | CN = GlobalSign Atlas E46 EV QWAC CA<br>2023Q1,<br>O = GlobalSign nv-sa,<br>C = BE | F9120A71D50697B9992A7357A0A9A0DDC4BFC3598FCB4F01642964824D3CF276 | Revoked on<br>October 20, 2023 |
| 87                | CN = GlobalSign Atlas E46 EV QWAC CA<br>2023Q2,<br>O = GlobalSign nv-sa,<br>C = BE | F4C5F3956379493830DE7456E0A55D6FBC1B8EA08B756488FF005B6C394A69C7 | Revoked on<br>October 20, 2023 |
| 88                | CN = GlobalSign Atlas E46 EV QWAC CA<br>2023Q3,<br>O = GlobalSign nv-sa,<br>C = BE | 430B172A6F7146B16A75BCC5BFA1D60C61DEEAA2ABAC61B4394E4A6B291C48CC | Revoked on<br>October 20, 2023 |
| 89                | CN = GlobalSign Atlas E46 EV QWAC CA<br>2023Q4,<br>O = GlobalSign nv-sa,<br>C = BE | 2DA52277662DC1C779E2439FAF58F85F87DBA73E0F16F1B0EB310A4919CFC3BA | Revoked on<br>October 20, 2023 |

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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](http://www.globalsign.com) | Email: [sales@globalsign.com](mailto:sales@globalsign.com)



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|-------------------|---|--|-------------------------------------|
| #                 | Subject DN  | SHA256 Fingerprint   | Other information                   |
| 90                | CN = GlobalSign Atlas R3 EV QWAC CA<br>2022Q1,<br>O = GlobalSign nv-sa,<br>C = BE                 | F2BC379B1EF45624D8F822B6E359502D470F384E53C082F7AE21869C13A5D345 | Revoked on<br>October 20, 2023      |
| 91                | CN = GlobalSign Atlas R3 EV QWAC CA<br>2022Q2,<br>O = GlobalSign nv-sa,<br>C = BE                 | 250AFA50B60D30D1217D00E7DD8CCE6B51F5C0B6A6369324842C37DEB44F9715 | Revoked on<br>October 20, 2023      |
| 92                | CN = GlobalSign Atlas R3 EV QWAC CA<br>2022Q3,<br>O = GlobalSign nv-sa,<br>C = BE                 | 9D51DC2750A13BD627D99FDCC720D1904FE81059110BB9DE11B039A4B2ECA531 | Revoked on<br>October 20, 2023      |
| 93                | CN = GlobalSign Atlas R3 EV QWAC CA<br>2022Q4,<br>O = GlobalSign nv-sa,<br>C = BE                 | 451FA3A18064B4DD03ADFE8B8BBF16258CB98A1A6FEE5D6B0A37C98A0B5E6DAE | Revoked on<br>October 20, 2023      |
| 94                | CN = GlobalSign Atlas R46 EV QWAC CA<br>2023Q1,<br>O = GlobalSign nv-sa,<br>C = BE                | A7DCFD3D09377C39BA3A7F630E052EC593E9726D1DA57229E599D15AD6DCCA7B | Revoked on<br>October 20, 2023      |
| 95                | CN = GlobalSign Atlas R46 EV QWAC CA<br>2023Q2,<br>O = GlobalSign nv-sa,<br>C = BE                | A40C91E466D62CDB32B7139E8748F0EB5A817F6BB8A9F999A7A9BF4306D6D5D5 | Revoked on<br>October 20, 2023      |
| 96                | CN = GlobalSign Atlas R46 EV QWAC CA<br>2023Q3,<br>O = GlobalSign nv-sa,<br>C = BE                | 29C840D062AC862DB4D20928D2AEFD83B35A46BD4533995FF2EFD3E3EE8CFFD9 | Revoked on<br>October 20, 2023      |
| 97                | CN = GlobalSign Atlas R46 EV QWAC CA<br>2023Q4,<br>O = GlobalSign nv-sa,<br>C = BE                | B51D85A08FACB06F97FDF58563749003033EE77DD583986204499197CA8E7077 | Revoked on<br>October 20, 2023      |
| 98                | CN = Valid Certificadora Digital SSL EV CA<br>2018,<br>O = VALID CERTIFICADORA DIGITAL,<br>C = BR | 8AEFE8D88BE87A30B19C60C5BD0FB5E9FBCD15D5582D5FC9A7499578D68DCEC0 | Expired on<br>September 19,<br>2023 |

GlobalSign NV/SA

Diestsevest 14, 3000 Leuven Belgium

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

Web: [www.globalsign.com](http://www.globalsign.com) | Email: [sales@globalsign.com](mailto:sales@globalsign.com)



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| Timestamp CA |  |  |                   |
|--------------|--|--|-------------------|
| #            | Subject DN   | SHA256 Fingerprint   | Other information |
| 99           | CN = GlobalSign Timestamping CA - SHA384 - G4,<br>O = GlobalSign nv-sa,<br>C = BE          | F642418E4D0C63DEC785C960EFA68BA745F38851744EF81F225CB89305314D50 |                   |
| 100          | CN = GlobalSign TSA CA for AATL,<br>O = GlobalSign nv-sa,<br>C = BE                        | 4D8EB49380EC72AC9FDF21FE1C6DB2E9490C76BEADD1F7B528C3CCD272C8FE28 |                   |
| 101          | CN = GlobalSign Partners Timestamping CA - SHA384 - G4,<br>O = GlobalSign nv-sa,<br>C = BE | 2A015531A5F3A4CE589BD853C71DD069587322F574D85C9C9B9F9DF8F86C075E |                   |
| 102          | CN = GlobalSign Timestamping CA - G2,<br>O = GlobalSign nv-sa,<br>C = BE                   | C977923C771E1A66C925A2B6F501732E678DC9887AFE6BFAAC039D1D9A71F0EC |                   |
| 103          | CN = GlobalSign Timestamping CA - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE          | 9BF9496777D14425ED0086C1BB2C0707B62A61C194C5162E4F07637AFF166B76 |                   |
| 104          | CN = GlobalSign Timestamping CA,<br>O = GlobalSign,<br>OU = Timestamping CA                | D0CAE6947BC77F0B495CA808D6CDE685FCD20225E1E530B635B113ED40728EF3 |                   |
| 105          | CN = GlobalSign Timestamping CA - R3,<br>O = GlobalSign,<br>OU = Timestamping CA           | 61C1067083AE044EF1D649CE590BBF09D9D739E025DA8D195F71CFAAD6EBAE69 |                   |

GlobalSign NV/SA

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| Other CA |   |  |                   |
|----------|---|--|-------------------|
| #        | Subject DN  | SHA256 Fingerprint   | Other information |
| 106      | CN = GlobalSign Root E46,<br>O = GlobalSign nv-sa,<br>C = BE            | 33EF151EFB08D1C44FB85CC3F23EC6873014E9F881691BD4938B7F251580B694 |                   |
| 107      | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign Root CA - R6     | C84E1378B974A991ACDCDD733421E3061E6FA21A0491C8902BAFDE3855E0063E |                   |
| 108      | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign ECC Root CA - R5 | F349954E8FB6D44011BCB789D97D9A2CB2032BD5F0B598D1FB8A099F5848D523 |                   |
| 109      | CN = GlobalSign Root R46,<br>O = GlobalSign nv-sa,<br>C = BE            | A5E33C28E3013A71F5F760AE3B16595090043D2EC5209EC52903C4FBAD258DAD |                   |
| 110      | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign Root CA - R6     | DDA8DA736187D76F4F0ED5A5F667B54D99A98AE06091D0E3A01714E9221695AD |                   |
| 111      | CN = GlobalSign Root E46,<br>O = GlobalSign nv-sa,<br>C = BE            | 0F1554C2FD591B0256A608E1C136A837E7A6E041561EE08A911B2AFDCD3C6C1B |                   |
| 112      | CN = GlobalSign Root R46,<br>O = GlobalSign nv-sa,<br>C = BE            | A63C1398B5F8DD2D432FBE4C2C19142BEA6D5D0221FAE794718AE7597ACCA96D |                   |
| 113      | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign ECC Root CA - R5 | 3F319B2AFED4A0F75127BE59925550D0428E68763A09E273EB6A9FF8D18DBB5B |                   |
| 114      | CN = GlobalSign Root R46,<br>O = GlobalSign nv-sa,<br>C = BE            | 45CB1D874CB03BD5C5B6E079C8FC29E51521EE5628486301964A41F94BA59F88 |                   |
| 115      | CN = GlobalSign Root E46,<br>O = GlobalSign nv-sa,<br>C = BE            | 1DF6054D6641404633641BB5FA3742FDA7D075E2514840AB61E00CCBBB7D341D |                   |

GlobalSign NV/SA

Diestsevest 14, 3000 Leuven Belgium

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Web: [www.globalsign.com](http://www.globalsign.com) | Email: [sales@globalsign.com](mailto:sales@globalsign.com)



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| Other CA |  |  |   |
|----------|--|--|---|
| #        | Subject DN   | SHA256 Fingerprint   | Other information                             |
| 116      | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign Root CA - R3                                | 445EEC78BC61215044A0379656AA2D5DB5E42F76CB70B8D14C2077AA943D4EBB |   |
| 117      | CN = GlobalSign Partners TSA CA for AATL,<br>O = GlobalSign nv-sa,<br>C = BE                       | 7E8F914119BB1090D6204908E5AE1F40BE24C1491CD7D5CFB6A93618CBC00FD9 |   |
| 118      | CN = GlobalSign CA for AATL - SHA384 - G4,<br>O = GlobalSign nv-sa,<br>C = BE                      | AC0AB963BB5F3DA05FBC8687F98C2B6EA0BB499E6118C1A9136B1BC7C3C71A6B |   |
| 119      | CN = GTS Root R1,<br>O = Google Trust Services LLC,<br>C = US                                      | 3EE0278DF71FA3C125C4CD487F01D774694E6FC57E0CD94C24EFD769133918E5 | In Google Trust Services LLC Audit Report (*) |
| 120      | CN = Hongkong Post Root CA 3,<br>O = Hongkong Post,<br>L = Hong Kong,<br>ST = Hong Kong,<br>C = HK | 00482341B104A0DE6E0F1D508DB84CB514F7494FE04982133A5C750136C55DC8 | In Hong Kong Post Audit Report (*)            |
| 121      | CN = GlobalSign,<br>O = GlobalSign,<br>OU = GlobalSign Root CA - R3                                | C94FEDDA4E8608908580BC7F87B434E03BB262E42F64C63820A8F50FB17C1CEC |   |
| 122      | CN = GlobalSign CA for AATL - SHA256 - G2,<br>O = GlobalSign nv-sa,<br>C = BE                      | AA89C466E9D06882C0DAAF72BE0F0FBCFE7C1EF2AAAD190640C4AD44F5517F34 |   |

\* 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.

GlobalSign NV/SA

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

Web: [www.globalsign.com](http://www.globalsign.com) | Email: [sales@globalsign.com](mailto:sales@globalsign.com)





## Appendix C: Locations

| Location identifier | Country              | State / Province |
|---------------------|----------------------|------------------|
| AE-01               | United Arab Emirates | 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           |
| US-01               | United States        | New Hampshire    |

## Appendix D: Publicly disclosed incidents

| ID      | Disclosure  | Publicly Disclosed Link              |
|---------|---|--------------------------------------|
| 1829195 | GlobalSign: CRLs reported in CCADB unavailable  | <a href="#">Bugzilla Ticket Link</a> |
| 1836443 | GlobalSign: Issuance of test EV SSL/QWAC pre-certificate with no EKU extension                    | <a href="#">Bugzilla Ticket Link</a> |
| 1845803 | GlobalSign: Three (3) revoked precertificates with reasonCode "certificateHold"                   | <a href="#">Bugzilla Ticket Link</a> |
| 1850091 | GlobalSign: EV TLS certificate with only metadata in JOI State field                              | <a href="#">Bugzilla Ticket Link</a> |
| 1866806 | GlobalSign: S/MIME Sponsor validated certificates with CommonName value equal to OrganizationName | <a href="#">Bugzilla Ticket Link</a> |
| 1870276 | GlobalSign: TLS OV Certificate containing unverified information                                  | <a href="#">Bugzilla Ticket Link</a> |