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Report of Independent Accountants

S.C. certSIGN S.A.
B-dul Timisoara nr. 5A
Sector 6, Bucharest,
ZIP 061301, Romania

We have examined the accompanying assertion[1] made by the management of S.C. certSIGN S.A., titled "Management's Assertion Regarding the Effectiveness of Its Controls Over the Certification Authority Operations Based on the WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.3" that provides its Certification Authority (CA) services at B-dul Timisoara nr. 5A Sector 6, Bucharest, CP 061301, Romania, throughout the period February 09, 2017 to February 08, 2018 for CAs as enumerated in Appendix A, S.C. certSIGN S.A. has:

- Disclosed its SSL certificate lifecycle management business practices in its:
  - S.C. certSIGN S.A. - CA's Certification Practice Statements (Appendix B No.2 and No.3); and
  - S.C. certSIGN S.A. - Certificate Policy (Appendix B No.1),

  including its commitment to provide SSL certificates in conformity with the CA/Browser Forum Requirements on the **S.C. certSIGN S.A.** 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 S.C. certSIGN S.A.)

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

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

based on the *WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.3*.

S.C. certSIGN S.A. management is responsible for its assertion and for specifying the aforementioned Criteria. Our responsibility is to express an opinion on management's assertion based on our examination.

Our examination was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants (AICPA). Those standards require that we plan

[1] Hyperlink to management assertion

and perform the examination to obtain reasonable assurance about whether management's assertion is fairly stated, in all material respects. An examination involves performing procedures to obtain evidence about management's assertion. The nature, timing, and extent of the procedures selected depend on our judgment, including an assessment of the risks of material misstatement of management's assertion, whether due to fraud or error. We believe that the evidence we obtained is sufficient and appropriate to provide a reasonable basis for our opinion.

The relative effectiveness and significance of specific controls at S.C. certSIGN S.A. 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.

Our examination was not conducted for the purpose of evaluating S.C. certSIGN S.A.'s cybersecurity risk management program. Accordingly, we do not express an opinion or any other form of assurance on its cybersecurity risk management program.

There are inherent limitations in the effectiveness of any system of internal control, including the possibility of human error and the circumvention of controls. Because of inherent limitations in its internal control, S.C. certSIGN S.A. may achieve reasonable, but not absolute assurance that all security events are prevented and, for those controls may provide reasonable, but not absolute assurance that its commitments and system requirements are achieved. 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.

Examples of inherent limitations of internal controls related to security include (a) vulnerabilities in information technology components as a result of design by their manufacturer or developer; (b) breakdown of internal control at a vendor or business partner; and (c) persistent attackers with the resources to use advanced technical means and sophisticated social engineering techniques specifically targeting the entity. Furthermore, the projection of any evaluations of effectiveness to future periods is subject to the risk that controls may become inadequate because of changes in conditions, that the degree of compliance with such controls may deteriorate, or that changes made to the system or controls, or the failure to make needed changes to the system or controls, may alter the validity of such evaluations.

In our opinion, S.C. certSIGN S.A.'s management's assertion referred to above is fairly stated, in all material respects, based on the aforementioned criteria. This report does not include any representation as to the quality of S.C. certSIGN S.A.'s CA services beyond those covered by the *WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.3* criteria, or the suitability of any of S.C. certSIGN S.A.'s services for any customer's intended purpose.

Ernst & Young LLP

February 08, 2018

Appendix A

Distinguished Name	Subject Key Identifier	Certificate Serial Number	SHA 256 fingerprint
C=RO, O=certSIGN, OU=certSIGN ROOT CA	e0 8c 9b db 25 49 b3 f1 7c 86 d6 b2 42 87 0b d0 6b a0 d9 e4	20 06 05 16 70 02	eaa962c4fa4a6bafebe415196d351ccd888d4f53f3fa8ae6d7c466a94e6042bb
C=RO, O=certSIGN, OU=certSIGN CA Class 2 G2, CN=certSIGN CA Class 2 G2	45 44 5b 06 21 aa 28 08 86 29 ae 09 cf 9d 42 7f 52 42 7b 19	20 06 05 16 70 03 10 ef 3c 9e c6 dc 4c f9 0d	35c0b8a577d11c94ba665e242de45d6687522a531e391bb4d995d261f3829ab7
C=RO, O=certSIGN, OU=certSIGN Qualified CA Class 3 G2, CN=certSIGN Qualified CA Class 3 G2	50 34 9e 53 76 b9 6d d2 b7 0c 1e 90 83 75 5a ee cb 74 18 8a	20 06 05 16 70 03 11 54 9a cd 82 9c 47 24 b7	c89c24b415a72c9409667e88fb5e6e92a38d5609c3c99e55d99b4b1d458990f9
C=RO, O=certSIGN, OU=certSIGN Enterprise CA Class 3 G2, CN=certSIGN Enterprise CA Class 3 G2	f6 eb 98 9e 40 69 ab 48 60 9d 46 16 ff 9e c0 3b 03 ba 9b fd	20 06 05 16 70 03 0d 54 5d c8 61 3c f7 1a c5	3b27df9dd93c112aa08b062a6ae3973f7e79a5191d7e9b95d7081780e0d6acea
C=RO, O=certSIGN, OU=certSIGN Code Signing CA Class 3 G2, CN=certSIGN Code Signing CA Class 3 G2	bb a6 4e 76 6b aa 84 70 13 c2 a7 e8 68 47 1d 68 c3 7e 3e 6f	20:06:05:16:70:03:15:A5:11:AE:66:B9:7E:F9:15	785854130b14f6f1ee9f984257ababb6255b05a8dbefb7680d33400ac28fe909
C=RO, O=certSIGN, OU=certSIGN SSL DV CA Class 3 G2, CN=certSIGN SSL DV CA Class 3 G2	f5 dc bb fb 89 1e ca 78 81 74 6c b6 4a 6c 25 4d 54 81 7e 06	20:06:05:16:70:03:17:88:7A:0B:E0:D3:4A:C3:AF	ea9a43515e138ff7782fcacdb9c7e8e1a61cfd1d17096ed5ddd1f400d02b03f5
C=RO, O=certSIGN, OU=certSIGN SSL EV CA Class 3 G2, CN=certSIGN SSL EV CA Class 3 G2	36 3b a2 9e 25 87 2a 0f fd 9a 4a 3c 27 da cb a7 79 c3 0c 7f	20:06:05:16:70:03:18:57:92:60:1A:CB:75:E1:27	7826de1be414e454cfcae0d17b17ff0cad12ee68cf487f357b38499e274b0171
C=RO, O=certSIGN, OU=certSIGN Non-Repudiation CA Class 4 G2, CN=certSIGN Non-Repudiation CA Class 4 G2	3f c1 34 9b 39 f6 65 de 86 31 7d ab 35 e8 19 73 95 de f0 55	20 06 05 16 70 03 12 43 f7 6e 5d a8 5e ac f3	3003bf8853427c7b91023f7539853d987c58dc4e11bbe047d2a9305c01a6152c
C=RO, O=certSIGN, OU=Certificat de productie Production certificate, CN=CERTSIGN FOR BANKING SIMPLE SSL PRODUCTION CA V3	20 21 13 32 ca 65 a9 4a 5b 65 f8 41 4e 1d e3 fb b5 5b 7f 60	20:06:05:16:70:03:14:CC:B6:A7:4F:43:EC:DF:8D	cae72f66d61afb9a697338e8f5358d8071bafa4ae4d2717c7e635fb5ea43d365
C=RO, O=certSIGN, OU=Certificat de test Test certificate, CN=CERTSIGN FOR BANKING SIMPLE SSL TEST CA V3	57 78 bb 1e 39 fc 27 6c a6 11 16 5f 52 fa 86 0a 8f 3f 02 63	20:06:05:16:70:03:0F:08:BD:2E:1E:01:A4:73:C7	0ac2b6086eb10db5576a3a1b8eb0e4344082c1b7d832504fcbf95a4804d51834
C=RO, O=certSIGN, OU=Certificat de productie Production certificate, CN=CERTSIGN FOR BANKING QUALIFIED DS PRODUCTION CA V3	a9 07 48 11 b8 b2 95 a0 d5 72 f1 2f 55 2b 98 7c ec 2d 29 9e	20:06:05:16:70:03:13:89:95:FB:4F:BF:85:8B:CF	a53452d589069ebd91423834fec288a78acc6a7b9d4d0f143d8c92e0b83d8e9
C=RO, O=certSIGN, OU=Certificat de test Test certificate, CN=CERTSIGN FOR BANKING QUALIFIED DS TEST CA V3	40 c4 00 1e 25 33 bd 69 60 5e 21 db d8 84 3d e4 0e c5 c6 b8	20:06:05:16:70:03:0E:F4:D2:76:53:C7:01:A2:0B	01379eb7b85f68edc2465b42438097687ebe1eae49319639bfb342efc3cefa1d

Appendix B

No.	The list of audited certificate practices and procedures	Document Links
1.	**Certification Policy** Version 1.5 Date: 25 January , 2016	https://www.certsign.ro/certsign_en/files/certSIGN_CP_EN_v1.5.pdf
2.	**Certification Practice Statement** Version 1.16 Date: 26 November 2017	https://www.certsign.ro/certsign_en/files/certSIGN_CPS_EN_v1.16.pdf
3.	**Certification Practice Statement SSL DV CA Class 3 G2 for SSL DV certificates** Version 1.0 Date: 29 January 2018	https://www.certsign.ro/certsign/files/CPS-DV-V1.1.pdf

5A Timisoara Avenue, Bucharest
www.certsign.ro

Management's Assertion Regarding the Effectiveness of Its Controls Over the Certification Authority Operations Based on the WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.3

February 08, 2018

We, as the management of S.C. certSIGN S.A., are responsible for operating the SSL Certification Authority (CA) services at B-dul Timisoara nr. 5A Sector 6, Bucharest, CP 061301, Romania for the Root CA and Subordinate CAs in scope for SSL Baseline Requirements and Network Security Requirements listed at Appendix A.

Controls have inherent limitations, including the possibility of human error and the circumvention or overriding of controls. Accordingly, even effective controls can provide only reasonable assurance with respect to S.C. certSIGN S.A.'s CA operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

Management of S.C. certSIGN S.A. has assessed the disclosures of its certificate practices and controls over its SSL CA services. Based on that assessment, in providing its SSL Certification Authority (CA) services at B-dul Timisoara nr. 5A Sector 6, Bucharest, CP 061301, Romania throughout the period from February 09, 2017 through February 08, 2018, S.C. certSIGN S.A. has:

- Disclosed its SSL certificate lifecycle management business practices in its:
  - S.C. certSIGN S.A. - CA's Certification Practice Statements (Appendix B No.2 and No.3); and
  - S.C. certSIGN S.A. - Certificate Policy (Appendix B No.1),

  including its commitment to provide SSL certificates in conformity with the CA/Browser Forum Requirements on the S.C. certSIGN S.A. 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 was established and protected throughout their lifecycles; and
  - SSL subscriber information was properly authenticated (for the registration activities performed by S.C. certSIGN S.A.)

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

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

for the Root CA and [Subordinate CAs in scope for SSL Baseline Requirements and Network Security Requirements at Appendix A, based on the *WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.3*.

Adrian FLOAREA, General Director
S.C. certSIGN S.A.

Appendix A

Distinguished Name	Subject Key Identifier	Certificate Serial Number	SHA 256 fingerprint
C=RO, O=certSIGN, OU=certSIGN ROOT CA	e0 8c 9b db 25 49 b3 f1 7c 86 d6 b2 42 87 0b d0 6b a0 d9 e4	20 06 05 16 70 02	eaa962c4fa4a6bafebe415196d351ccd888d4f53f3fa8ae6d7c466a94e6042bb
C=RO, O=certSIGN, OU=certSIGN CA Class 2 G2, CN=certSIGN CA Class 2 G2	45 44 5b 06 21 aa 28 08 86 29 ae 09 cf 9d 42 7f 52 42 7b 19	20 06 05 16 70 03 10 ef 3c 9e c6 dc 4c f9 0d	35c0b8a577d11c94ba665e242de45d6687522a531e391bb4d995d261f3829ab7
C=RO, O=certSIGN, OU=certSIGN Qualified CA Class 3 G2, CN=certSIGN Qualified CA Class 3 G2	50 34 9e 53 76 b9 6d d2 b7 0c 1e 90 83 75 5a ee cb 74 18 8a	20 06 05 16 70 03 11 54 9a cd 82 9c 47 24 b7	c89c24b415a72c9409667e88fb5e6e92a38d5609c3c99e55d99b4b1d458990f9
C=RO, O=certSIGN, OU=certSIGN Enterprise CA Class 3 G2, CN=certSIGN Enterprise CA Class 3 G2	f6 eb 98 9e 40 69 ab 48 60 9d 46 16 ff 9e c0 3b 03 ba 9b fd	20 06 05 16 70 03 0d 54 5d c8 61 3c f7 1a c5	3b27df9dd93c112aa08b062a6ae3973f7e79a5191d7e9b95d7081780e0d6acea
C=RO, O=certSIGN, OU=certSIGN Code Signing CA Class 3 G2, CN=certSIGN Code Signing CA Class 3 G2	bb a6 4e 76 6b aa 84 70 13 c2 a7 e8 68 47 1d 68 c3 7e 3e 6f	20:06:05:16:70:03:15:A5:11:AE:66:B9:7E:F9:15	785854130b14f6f1ee9f984257ababb6255b05a8dbefb7680d33400ac28fe909
C=RO, O=certSIGN, OU=certSIGN SSL DV CA Class 3 G2, CN=certSIGN SSL DV CA Class 3 G2	f5 dc bb fb 89 1e ca 78 81 74 6c b6 4a 6c 25 4d 54 81 7e 06	20:06:05:16:70:03:17:88:7A:0B:E0:D3:4A:C3:AF	ea9a43515e138ff7782fcacdb9c7e8e1a61cfd1d17096ed5ddd1f400d02b03f5
C=RO, O=certSIGN, OU=certSIGN SSL EV CA Class 3 G2, CN=certSIGN SSL EV CA Class 3 G2	36 3b a2 9e 25 87 2a 0f fd 9a 4a 3c 27 da cb a7 79 c3 0c 7f	20:06:05:16:70:03:18:57:92:60:1A:CB:75:E1:27	7826de1be414e454cfcae0d17b17ff0cad12ee68cf487f357b38499e274b0171
C=RO, O=certSIGN, OU=certSIGN Non-Repudiation CA Class 4 G2, CN=certSIGN Non-Repudiation CA Class 4 G2	3f c1 34 9b 39 f6 65 de 86 31 7d ab 35 e8 19 73 95 de f0 55	20 06 05 16 70 03 12 43 f7 6e 5d a8 5e ac f3	3003bf8853427c7b91023f7539853d987c58dc4e11bbe047d2a9305c01a6152c
C=RO, O=certSIGN, OU=Certificat de productie Production certificate, CN=CERTSIGN FOR BANKING SIMPLE SSL PRODUCTION CA V3	20 21 13 32 ca 65 a9 4a 5b 65 f8 41 4e 1d e3 fb b5 5b 7f 60	20:06:05:16:70:03:14:CC:B6:A7:4F:43:EC:DF:8D	cae72f66d61afb9a697338e8f5358d8071bafa4ae4d2717c7e635fb5ea43d365
C=RO, O=certSIGN, OU=Certificat de test Test certificate, CN=CERTSIGN FOR BANKING SIMPLE SSL TEST CA V3	57 78 bb 1e 39 fc 27 6c a6 11 16 5f 52 fa 86 0a 8f 3f 02 63	20:06:05:16:70:03:0F:08:BD:2E:1E:01:A4:73:C7	0ac2b6086eb10db5576a3a1b8eb0e4344082c1b7d832504fcbf95a4804d51834
C=RO, O=certSIGN, OU=Certificat de productie Production certificate, CN=CERTSIGN FOR BANKING QUALIFIED DS PRODUCTION CA V3	a9 07 48 11 b8 b2 95 a0 d5 72 f1 2f 55 2b 98 7c ec 2d 29 9e	20:06:05:16:70:03:13:89:95:FB:4F:BF:85:8B:CF	a53452d589069ebd91423834fec288a78acc6a7b9d4d0f143d8c92e0b83d8e9
C=RO, O=certSIGN, OU=Certificat de test Test certificate, CN=CERTSIGN FOR BANKING QUALIFIED DS TEST CA V3	40 c4 00 1e 25 33 bd 69 60 5e 21 db d8 84 3d e4 0e c5 c6 b8	20:06:05:16:70:03:0E:F4:D2:76:53:C7:01:A2:0B	01379eb7b85f68edc2465b42438097687ebe1eae49319639bfb342efc3cefa1d

Appendix B

No.	The list of audited certificate practices and procedures	Document Links
1.	**Certification Policy** Version 1.5 Date: 25 January , 2016	https://www.certsign.ro/certsign_en/files/certSIGN_CP_EN_v1.5.pdf
2.	**Certification Practice Statement** Version 1.16 Date: 26 November 2017	https://www.certsign.ro/certsign_en/files/certSIGN_CPS_EN_v1.16.pdf
3.	**Certification Practice Statement SSL DV CA Class 3 G2 for SSL DV certificates** Version 1.0 Date: 29 January 2018	https://www.certsign.ro/certsign/files/CPS-DV-V1.1.pdf