

INDEPENDENT ASSURANCE REPORT

To the management of Verizon Terremark NV ("Verizon Terremark")

Scope

We have been engaged, in a reasonable assurance engagement, to report on Verizon Terremark management's assertion that, except for matters described in the assertion, for its Certification Authority (CA) operations at Culliganlaan 2E, Diegem (Belgium), throughout the period May 1, 2017 through April 30, 2018 for its CAs as enumerated in Appendix B, Verizon Terremark has:

- ▶ Disclosed its EV 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 EV SSL certificates in conformity with the CA/Browser Forum Requirements on the Verizon Terremark 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 Verizon Terremark)

in accordance with the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL v1.6.0](#).

Cybertrust SureServer EV OCSP CA (Appendix B, CA #2), Verizon Public SureServer EV SSL CA G14-SHA1 (Appendix B, CA #3), Cybertrust Public SureServer EV CA (Appendix B, CA #4), Cybertrust SureServer EV CA (Appendix B, CA #5) did not issue certificates during the period May 1, 2017 through April 30, 2018 and were maintained online to provide revocation status information only.

Certification authority's responsibilities

Verizon Terremark'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 v1.6.0](#).

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 Verizon Terremark's EV SSL certificate lifecycle management business practices, including its relevant controls over the issuance, renewal, and revocation of EV SSL certificates, and obtaining an understanding of Verizon Terremark'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 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.

Relative effectiveness of controls

The relative effectiveness and significance of specific controls at Verizon Terremark 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, Verizon Terremark'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 May 1, 2017 through April 30, 2018, Verizon Terremark 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 v1.6.0](#).

This report does not include any representation as to the quality of Verizon Terremark's services beyond those covered by the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL v1.6.0](#), nor the suitability of any of Verizon Terremark's services for any customer's intended purpose.

Use of the WebTrust seal

Verizon Terremark's use of the WebTrust Principles and Criteria 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.

Ernst & Young Bedrijfsrevisoren BCVBA
Diegem, Belgium



Christel Weymeersch, Partner
July 27, 2018

Appendix A - Certification Practice Statements and Certificate Policies in Scope

Certificate Policies	Begin Effective Date	End Effective Date
Version 2.8	April 2017	July 2018

Certification Practice Statements	Begin Effective Date	End Effective Date
Version 5.9	April 2017	July 2018

Appendix B - In-Scope CAs

EV SSL Issuing CAs		
#	Subject	SHA
1	CN=Verizon Public SureServer EV SSL CA G14-SHA2, OU=Cybertrust, O=Verizon Enterprise Solutions, L=Amsterdam, C=NL	d1:4e:da:2c:63:1f:31:2d:c0:fd:8d:7b:34:9e:d4:a1:c8:d9:04:a0:70:99:2d:84:d3:3d:bf:bb:14:62:1c:42
2	O=Verizon Cybertrust Security, CN=Cybertrust SureServer EV OCSP CA	4f:66:20:f1:5b:d0:8c:95:27:db:50:ce:f2:6f:42:d4:51:63:b5:10:bb:95:6e:9e:9e:83:c9:9b:82:c0:af:71
3	CN=Verizon Public SureServer EV SSL CA G14-SHA1, OU=Cybertrust, O=Verizon Enterprise Solutions, L=Amsterdam, C=NL	3c:3a:c7:c5:48:aa:80:0b:ec:7a:af:e3:8a:15:50:ec:cf:f8:89:53:05:c4:36:f7:a0:7c:60:66:a5:ef:55:bd
4	CN=Cybertrust Public SureServer EV CA, O=Cybertrust Inc	93:62:f2:ff:28:71:f3:b8:db:11:56:6f:3d:f5:c4:ac:35:ec:a6:63:f6:d3:12:b1:a6:1a:a0:48:2f:9c:b6:d2
5	CN=Cybertrust SureServer EV CA, O=Cybertrust Inc	0a:ca:d3:97:3a:8d:ea:50:96:ae:25:53:f5:a7:0f:c9:16:87:93:fa:0b:06:44:a0:8a:8e:9b:85:9d:96:50:b5

Verizon Terremark Management's Assertion

Verizon Terremark NV ("Verizon Terremark") operates the Certification Authority (CA) services known as the Subordinate CAs as disclosed in appendix B and provides Extended Validation SSL ("EV SSL") CA services.

Verizon Terremark management has assessed its disclosures of its certificate practices and controls over its EV SSL CA services. Based on that assessment, in Verizon Terremark management's opinion, in providing its EV SSL Certification Authority (CA) services at Culliganlaan 2E, Diegem (Belgium), throughout the period May 1, 2017 through April 30, 2018, Verizon Terremark has:

- Disclosed its EV 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 EV SSL certificates in conformity with the CA/Browser Forum Requirements on the Verizon Terremark 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 Verizon Terremark)

in accordance with the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL v1.6.0](#).

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Verizon Terremark
Diegem, Belgium



Signed by: **Tim Brophy**
Function: **Director, Risk & Compliance**
July 27, 2018

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2	O=Verizon Cybertrust Security, CN=Cybertrust SureServer EV OCSP CA	4f:66:20:f1:5b:d0:8c:95:27:db:50:ce:f2:6f:42:d4: 51:63:b5:10:bb:95:6e:9e:9e:83:c9:9b:82:c0:af:71
3	CN=Verizon Public SureServer EV SSL CA G14-SHA1, OU=Cybertrust, O=Verizon Enterprise Solutions, L=Amsterdam, C=NL	3c:3a:c7:c5:48:aa:80:0b:ec:7a:af:e3:8a:15:50:ec: cf:f8:89:53:05:c4:36:f7:a0:7c:60:66:a5:ef:55:bd
4	CN=Cybertrust Public SureServer EV CA, O=Cybertrust Inc	93:62:f2:ff:28:71:f3:b8:db:11:56:6f:3d:f5:c4:ac: 35:ec:a6:63:f6:d3:12:b1:a6:1a:a0:48:2f:9c:b6:d2
5	CN=Cybertrust SureServer EV CA, O=Cybertrust Inc	0a:ca:d3:97:3a:8d:ea:50:96:ae:25:53:f5:a7:0f:c9: 16:87:93:fa:0b:06:44:a0:8a:8e:9b:85:9d:96:50:b5