

WebTrust audit activities for Verizon TerreMark NV

The purpose of this letter is to inform you on the ongoing audit activities of the Verizon TerreMark NV (“Verizon”, a wholly owned subsidiary of Verizon Business) Certification Authority (CA) services.

We, EY have been asked by Verizon to evaluate the assertion that the Verizon CA services have been provided in accordance with

- ▶ WebTrust Principles and Criteria for Certification Authorities, Version 2.1
- ▶ WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security, Version 2.3
- ▶ WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL, Version 1.6.2

The overall scope of our audit has been defined as covering the Verizon CA services as provided during the period of May 1, 2018 through April 30, 2019, including the following subordinates:

- ▶ Cybertrust Public SureCodeSign CA
- ▶ Cybertrust Public SureCredential CA
- ▶ Cybertrust Public SureServer EV CA
- ▶ Cybertrust Public SureServer SV CA
- ▶ Cybertrust SureServer EV CA
- ▶ Cybertrust SureServer EV OCSP CA
- ▶ Verizon Akamai SureServer CA G14-SHA1
- ▶ Verizon Akamai SureServer CA G14-SHA2
- ▶ Verizon Global Issuing CA
- ▶ Verizon Public SureCodeSign CA G14-SHA1
- ▶ Verizon Public SureCodeSign CA G14-SHA2
- ▶ Verizon Public SureCredential CA G14-SHA1
- ▶ Verizon Public SureCredential CA G14-SHA2
- ▶ Verizon Public SureServer CA G14-SHA1
- ▶ Verizon Public SureServer CA G14-SHA2
- ▶ Verizon Public SureServer EV SSL CA G14-SHA1
- ▶ Verizon Public SureServer EV SSL CA G14-SHA2

At the moment of writing this letter, these audit activities are still ongoing.

We rely on the information provided by Verizon in order to complete our work. The reports of independent accountants will be issued as soon as we have completed our examination activities. We expect the report to be issued no later than August 9, 2019.

Without expressing any opinion, we already communicate the following observations:

- ▶ Verizon indicated that during the period of May 1, 2018 through April 30, 2019, the subordinate CAs listed above did not issue end entity certificates and were maintained online to provide revocation status information only. Through inspection of the list of certificates issued on the CA database, we noted that the subordinate CAs listed above did not issue end entity certificates during the period under audit.
- ▶ During our procedures, we noted the following observations that may cause a qualification of our opinion:

	Observation	Relevant WebTrust Criteria
1	<p>No business continuity test was performed during the period under audit.</p> <p>However, we noted that a business continuity test covering the fail-over of certificate status services (CRL and OCSP) to a disaster recovery site was performed successfully on July 12, 2019.</p> <p>This caused WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security, Criterion 3.4 not to be met.</p>	<p>The CA maintains controls to provide reasonable assurance that it develops, implements, and maintains a Business Continuity Plan that includes at a minimum:</p> <ul style="list-style-type: none"> • the conditions for activating the plan; • emergency procedures; • fall-back procedures; • resumption procedures; • a maintenance schedule for the plan; • awareness and education requirements; • the responsibilities of the individuals; • recovery time objective (RTO); • regular testing of contingency plans; • the CA's plan to maintain or restore the CA's business operations in a timely manner following interruption to or failure of critical business processes; • a requirement to store critical cryptographic materials (i.e., secure cryptographic device and activation materials) at an alternate location; • what constitutes an acceptable system outage and recovery time; • how frequently backup copies of essential business information and software are taken; • the distance of recovery facilities to the CA's main site; and • procedures for securing its facility to the extent possible during the period of time following a disaster and prior to restoring a secure environment either at the original or a remote site. <p>The Business Continuity Plan is tested at least annually, reviewed, and updated.</p>



Please note that this may not represent the complete list of observations in the final report.

Should you have any more questions, please do not hesitate to contact Vincent Bennekers (Vincent.bennekers@be.ey.com) or myself.

Yours sincerely

Brussels, July 26, 2019

Ernst & Young Bedrijfsrevisoren cvba

Represented by

A handwritten signature in blue ink, reading 'Weymeersch', is written over a horizontal line.

Christel Weymeersch*

Partner

* Acting on behalf of a bvba