



REPORT OF THE INDEPENDENT ACCOUNTANT

To the Management of Symantec Corporation:

We have examined for the GeoTrust Certification Authority (CA) operations provided by Symantec Corporation (Symantec) at Mountain View, California, USA; New Castle, Delaware, USA; Melbourne, Australia; Cape Town, South Africa; Dublin, Ireland; Sapporo, Japan; and Kawasaki-shi, Japan and for Verisign, Inc. (Verisign), an independent service organization that provides datacenter hosting services to Symantec for the GeoTrust Certification Authority operations at the New Castle, Delaware location:

- a) Symantec's disclosure of its extended validation SSL (EV SSL) certificate lifecycle management business practices in its GeoTrust Certification Practices Statement and its disclosure of the services and related controls provided by Verisign as enumerated in [Attachment A](#), including Symantec's commitment to provide EV SSL certificates in conformity with the CA/Browser Forum Guidelines on the Symantec website;
- b) the provision of such services in accordance with its disclosed practices;
- c) the effectiveness of Symantec's controls and Verisign's controls, where applicable, over
 - key and EV SSL certificate integrity,
 - the authenticity and confidentiality of EV SSL subscriber and relying party information, and
 - continuity of key and EV SSL certificate lifecycle management operations

throughout the period December 1, 2016 to October 31, 2017 for its CAs as enumerated in [Attachment B](#).

Symantec's management is responsible for these disclosures and for maintaining effective controls based on the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL v1.6](#). Our responsibility is to express an opinion based on our examination.

The relative effectiveness and significance of specific controls at Symantec 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. Our examination did not extend to controls at individual subscriber and relying party locations and we have not evaluated the effectiveness of such controls.

Our examination was conducted in accordance with standards for attestation engagements established by the American Institute of Certified Public Accountants. Those standards require that we plan and perform the examination to obtain reasonable assurance about whether, throughout the period December 1, 2016 to October 31, 2017, for the CAs enumerated in [Attachment B](#), in all material respects:

- a) Symantec disclosed its EV SSL certificate lifecycle management business practices in its GeoTrust Certification Practices Statement and the services and related controls provided by Verisign as enumerated in [Attachment A](#),



including Symantec's commitment to provide EV SSL certificates in conformity with the CA/Browser Forum Guidelines on the Symantec website, and provided such services in accordance with its disclosed practices; and

- b) Symantec and Verisign, where applicable, 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 Symantec)

based on the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL v1.6.](#)

Because of the nature and inherent limitations of controls, Symantec'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.

In our opinion, throughout the December 1, 2016 to October 31, 2017, in all material respects:

- a) Symantec disclosed its EV SSL certificate lifecycle management business practices in its GeoTrust Certification Practices Statement and the services and related controls provided by Verisign as enumerated in [Attachment A](#), including Symantec's commitment to provide EV SSL certificates in conformity with the CA/Browser Forum Guidelines on the Symantec website, and provided such services in accordance with its disclosed practices; and
- b) Symantec and Verisign, where applicable, 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 Symantec)

based on the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL v1.6.](#)

This report does not include any representation as to the quality of Symantec's services other than its CA operations at Mountain View, California, USA; New Castle, Delaware, USA; Melbourne, Australia; Cape Town, South Africa; Dublin, Ireland; Sapporo, Japan; and Kawasaki-shi, Japan nor the suitability of any of Symantec's services for any customer's intended purpose.



Effective at the close of business on October 31, 2017, Symantec sold its CA business operations to DigiCert Inc.

Symantec'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.

BDO USA, LLP

St. Louis, Missouri
January 31, 2018



Attachment A

GeoTrust Certification Practice Statement Versions in Scope

Policy Name	Version	Date
GeoTrust Certification Practice Statement	1.1.21	September 8, 2017
GeoTrust Certification Practice Statement	1.1.20	December 19, 2016
GeoTrust Certification Practice Statement	1.1.19	September 9, 2016

Description of Services Provided for Symantec and Related Controls Exercised by Verisign at the New Castle, Delaware Location

Symantec has entered into an agreement with Verisign Inc. (Verisign), to provide datacenter hosting services at the New Castle, Delaware datacenter (the datacenter). Verisign performs the same physical and environmental security controls as Symantec has disclosed in Section 5 and Section 6 of the GeoTrust Certification Practice Statement; however, Verisign performs UPS maintenance quarterly, rather than semi-annually.

Verisign has implemented the following physical and environmental security controls to protect Symantec assets at the datacenter. Production systems housed in the datacenter are protected by multiple tiers of physical security, with access to the lower tier required before gaining access to the next highest tier. The datacenter enforces individual access control through the use of two-factor authentication, including biometrics. Physical access to the datacenter is automatically logged. Visitors to the datacenter are required to sign a log at the security office, wear a visitor badge, and be escorted while onsite. The datacenter facilities are manned continuously by on-site security personnel and the premises are continuously video monitored and recorded. Multiple generators, UPS, HVAC and fire suppression systems have been implemented at the datacenter.



Attachment B

List of CAs in Scope

Root CA	Serial Number	SHA1 Thumbprint	SHA2 Thumbprint
C=US, O=GeoTrust Inc., CN=GeoTrust Primary Certification Authority	18ACB56AFD69B6153A 636CAFDAFAC4A1	32:3C:11:8E:1B:F7:B8:B6:52: 54:E2:E2:10:0D:D6:02:90:37: F0:96	37:D5:10:06:C5:12:EA:AB:62: 64:21:F1:EC:8C:92:01:3F:C5: F8:2A:E9:8E:E5:33:EB:46:19: B8:DE:B4:D0:6C
C=US, O=GeoTrust Inc., OU=(c) 2007 GeoTrust Inc. - For authorized use only, CN=GeoTrust Primary Certification Authority - G2	3CB2F4480A00E2FEEB 243B5E603EC36B	8D:17:84:D5:37:F3:03:7D:EC: 70:FE:57:8B:51:9A:99:E6:10: D7:B0	5E:DB:7A:C4:3B:82:A0:6A:87: 61:E8:D7:BE:49:79:EB:F2:61: 1F:7D:D7:9B:F9:1C:1C:6B:56: 6A:21:9E:D7:66
C=US, O=GeoTrust Inc., OU=(c) 2008 GeoTrust Inc. - For authorized use only, CN=GeoTrust Primary Certification Authority - G3	15AC6E9419B2794B41 F627A9C3180F1F	03:9E:ED:B8:0B:E7:A0:3C:69: 53:89:3B:20:D2:D9:32:3A:4C: 2A:FD	B4:78:B8:12:25:0D:F8:78:63: 5C:2A:A7:EC:7D:15:5E:AA:62 :5E:E8:29:16:E2:CD:29:43:61 :88:6C:D1:FB:D4

Class 3 CA	Serial Number	SHA1 Thumbprint	SHA2 Thumbprint
C=US, O=GeoTrust Inc., CN=GeoTrust EV SSL CA - G4	6E8A90EBCFF0448A72 0D0805D082A544	30:56:B3:43:48:5B:9D:55:F3: E2:B1:77:A8:95:BB:04:63:EE: 3E:FD	95:B0:9D:02:12:2F:A8:AE:62: 35:78:0F:6E:A6:50:3E:76:7A: C0:21:A0:87:4F:E8:31:CE:80: 3A:50:EA:8F:D7
C=US, O=GeoTrust Inc., CN=GeoTrust EV SSL CA - G5	3CB6BC2996B37A14A7 92D1E5D8EC335A	71:71:C0:5A:62:7D:7C:63:5F: 8A:4D:F4:0F:7A:F5:B8:1B:DE: B7:6D	5B:2A:E8:AB:F5:E7:E5:63:BB: C3:4C:97:A2:25:54:E8:23:93: D7:AC:C0:9C:17:65:E5:04:AE: 08:C1:57:B5:AC
C=US, O=GeoTrust Inc., CN=GeoTrust EV SSL CA - G6	010019F5AA7269F88C 1E1C1211EC8D4F	B7:20:88:E6:F1:87:89:06:8F: 01:B2:5B:13:1A:7E:64:AA:A9: 5E:59	41:9B:0C:9A:D6:B8:72:A8:B1: BB:87:34:1A:F6:3E:E9:2E:69: B2:7B:99:66:62:E7:33:03:2F: 12:88:10:8D:FB
C=US, O=GeoTrust Inc., CN=GeoTrust EV SSL CA - G7	0100200B7C009A10A6 DC0BE9EFA8FEF8	6B:F6:9B:90:22:C0:89:DF:4B: 49:BA:21:2B:8A:92:66:D7:5A: 44:66	54:6C:AF:F9:06:0E:EF:30:F4: F3:E0:22:55:FB:F5:13:1E:65: 7C:17:10:C9:A6:50:02:01:33: A8:18:BE:C1:C8
C=US, O=GeoTrust Inc., CN=GeoTrust Extended Validation SHA256 SSL CA	5418A02AD0BF5719DD F72336B147F0BA	E2:8A:01:56:B0:3C:75:E0:5F: 81:97:96:FF:E9:F9:8B:BA:B6: F1:E3	BC:9E:22:3C:C4:22:75:CC:03: 41:90:DF:2D:01:79:B5:5B:73: 2D:5A:C5:31:13:7A:7B:52:2D: CF:E0:4A:05:92
C=US, O=GeoTrust Inc., CN=GeoTrust Extended Validation SSL CA - G2	0B1DB1A919F24C3C4E FCB57A6A4E6CBF	C4:FA:37:41:B7:A7:F1:F6:C2: 3D:24:F4:20:9F:5A:49:CD:5E: 55:C6	C7:B5:7A:02:F9:37:AE:0B:E3: E2:10:27:03:05:92:C9:D4:7A: 70:D7:01:3E:B3:AA:94:DB:C3: B7:B5:AB:06:62
C=US, O=GeoTrust, Inc., CN=GeoTrust ECC EV SSL CA	0F0C3729DF4955BF8 65EBC5EEF432FC	FF:7D:03:52:18:E8:46:DC:A8: D9:04:BE:24:39:C5:3D:B5:F7: D8:AC	C1:31:49:9F:D8:6B:21:3D:B5: DE:FA:AF:D5:31:11:C2:8A:2D :DA:F4:BA:46:5C:82:65:A7:2D :6C:F7:39:B6:68