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REPORT OF THE INDEPENDENT ACCOUNTANT

To the management of DigiCert, Inc. ("DigiCert"):

We have examined the assertions by the management of [DigiCert](#) and [VeriSign, Inc.](#) ("Verisign"), an independent service organization that provides datacenter hosting services to DigiCert, that for its GeoTrust Certification Authority ("CA") operations at Mountain View, California, USA; New Castle, Delaware, USA; Melbourne, Australia; Sydney, Australia; Cape Town, South Africa; Dublin, Ireland; Sapporo, Japan; and Kawasaki-shi, Japan, throughout the period November 1, 2017 to October 31, 2018 for its CAs as enumerated in [Attachment B](#), DigiCert has

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in the applicable versions of its DigiCert Certification Practices Statement for GeoTrust, RapidSSL and FreeSSL and DigiCert Certificate Policy for Symantec Trust Network (STN) enumerated in [Attachment A](#)
- maintained effective controls to provide reasonable assurance that:
 - DigiCert's Certification Practice Statement is consistent with its Certificate Policy; and
 - DigiCert provides its services in accordance with its Certificate Policy and Certification Practice Statement
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and certificates it manages is established and protected throughout their lifecycles;
 - the integrity of subscriber keys and certificates it manages is established and protected throughout their lifecycles;
 - subscriber information is properly authenticated (for the registration activities performed by DigiCert); and
 - subordinate CA certificate requests are accurate, authenticated, and approved
- 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

based on the [WebTrust Principles and Criteria for Certification Authorities v2.1](#). DigiCert's and Verisign's management are responsible for their respective assertions. Our responsibility is to express an opinion on managements' assertions, based on our examination.



The relative effectiveness and significance of specific controls at DigiCert and Verisign and their effect on assessments of control risks 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.

DigiCert does not escrow its CA keys, does not provide subscriber key lifecycle management controls, and does not provide certificate suspension services. Accordingly, our examination did not extend to controls that would address those criteria.

Our examination was conducted in accordance with attestation standards 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 managements' assertions are fairly stated, in all material respects. An examination involves performing procedures to obtain evidence about managements' assertions. The nature, timing, and extent of the procedures selected depend on our judgment, including an assessment of the risks of material misstatement of managements' assertions, 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.

Because of the nature and inherent limitations of controls, DigiCert's and Verisign'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 DigiCert's and Verisign's management assertions, as referred to above, are fairly stated, in all material respects.

Without modifying our opinion, we noted the following other matter during our procedures:

Matter Topic		Matter Description
1	Disaster Recovery	Digicert does not have documented disaster recovery procedures specific to the handling of offline CA operations and no test was conducted to determine the capabilities to recover offline CA operations from the secondary facility.

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



DigiCert's use of the WebTrust for Certification Authorities 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 to provide any additional assurance.

BDO USA, LLP

St. Louis, Missouri
January 29, 2019



Attachment A - Certification Practice Statement and Certificate Policy Versions In-Scope

Policy Name	Version	Date
DigiCert Certification Practices Statement for GeoTrust, RapidSSL and FreeSSL	1.2	September 11, 2018
GeoTrust Certification Practices Statement	1.1.21	September 8, 2017
DigiCert Certificate Policy for Symantec Trust Network (STN)	2.9	September 11, 2018
Symantec Trust Network (STN) Certificate Policy	2.8.24	September 8, 2017



Attachment B - List of CAs In-Scope

Root CA	Serial Number	SHA1 Thumbprint	SHA2 Thumbprint
C=US, O=GeoTrust Inc., OU=(c) 2008 GeoTrust Inc. - For authorized use only, CN=GeoTrust Primary Certification Authority - G3	15AC6E9419B2794B41F627A9C3180F1F	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
C=US, O=GeoTrust Inc., CN=GeoTrust Primary Certification Authority	18ACB56AFD69B6153A636CAFDAFAC4A1	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., CN=GeoTrust Universal CA 2	01	37:9A:19:7B:41:85:45:35:0C:A6:03:69:F3:3C:2E:AF:47:4F:20:79	A0:23:4F:3B:C8:52:7C:A5:62:8E:EC:81:AD:5D:69:89:5D:A5:68:0D:C9:1D:1C:B8:47:7F:33:F8:78:B9:5B:0B
C=US, O=GeoTrust Inc., OU=(c) 2007 GeoTrust Inc. - For authorized use only, CN=GeoTrust Primary Certification Authority - G2	3CB2F4480A00E2FEEB243B5E603EC36B	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., CN=GeoTrust Global CA	023456	DE:28:F4:A4:FF:E5:B9:2F:A3:C5:03:D1:A3:49:A7:F9:96:2A:82:12	FF:85:6A:2D:25:1D:CD:88:D3:66:56:F4:50:12:67:98:CF:AB:AA:DE:40:79:9C:72:2D:E4:D2:B5:DB:36:A7:3A
C=US, O=GeoTrust Inc., CN=GeoTrust Global CA 2	01	A9:E9:78:08:14:37:58:88:F2:05:19:B0:6D:2B:0D:2B:60:16:90:7D	CA:2D:82:A0:86:77:07:2F:8A:B6:76:4F:F0:35:67:6C:FE:3E:5E:32:5E:01:21:72:DF:3F:92:09:6D:B7:9B:85
C=US, O=GeoTrust Inc., CN=GeoTrust Universal CA	01	E6:21:F3:35:43:79:05:9A:4B:68:30:9D:8A:2F:74:22:15:87:EC:79	A0:45:9B:9F:63:B2:25:59:F5:FA:5D:4C:6D:B3:F9:F7:2F:F1:93:42:03:35:78:F0:73:BF:1D:1B:46:CB:B9:12

Cross Signed CAs				
Issuer	Subject	Serial Number	SHA1 Thumbprint	SHA2 Thumbprint
C=US, O=GeoTrust Inc., CN=GeoTrust Primary Certification Authority	C=US, O=DigiCert, Inc, OU=www.digicert.com, CN=GeoTrust Primary Transition Root	4DBD50EDA475A389AD18A0AA247D57C5	37:C8:DB:17:B0:D2:10:74:54:2B:77:0B:E2:D8:2E:55:95:2F:0A:64	F5:4F:6C:ED:56:CF:68:2B:57:0A:6C:AE:C3:13:E9:48:27:60:DE:12:E8:F9:28:AE:30:45:2C:4C:66:AC:76:1A

Class 3 CA	Serial Number	SHA1 Thumbprint	SHA2 Thumbprint
C=CH, O=Hostpoint AG, OU=Domain Validated SSL, CN=Hostpoint DV SSL CA - G1	5DC83594AA94674ABD0559D00CA943CA	0D:BB:0D:76:FC:68:A0:F7:C9:FF:DD:9F:80:35:12:02:BD:31:69:15	9F:4E:3C:42:FA:FE:DA:3C:F8:8C:05:CC:4B:4A:F0:C0:AF:30:64:15:C3:0D:3D:1E:EB:ED:EB:F7:D1:77:A9:82
C=CH, O=Hostpoint AG, OU=Domain Validated SSL, CN=Hostpoint DV SSL CA - G2	023A8D	51:F5:6D:08:1A:8D:FD:E5:6E:DA:F1:8A:81:EB:2E:6C:A6:8A:E3:AC	AB:D6:D0:53:FD:BE:35:6D:07:50:50:18:15:86:B0:B9:C2:B8:C0:32:98:AB:CE:64:C E:25:C4:04:01:DF:3B:22



C=CH, O=Hostpoint AG, OU=Domain Validated SSL, CN=Hostpoint DV SSL CA - G2	023A8C	E8:69:36:C0:28:9D:99:87:F3:E6:36:98:56:47:B6:7E:79:03:82:F6	2F:E0:55:9F:55:57:67:0C:F5:C8:AE:01:22:38:73:B8:83:6C:AE:2C:FD:25:96:1C:C9:8E:E2:B9:43:A2:D6:5A
C=CN, O=TrustAsia Technologies, Inc., OU=Domain Validated SSL, CN=TrustAsia Technologies, Inc. DV SSL CA - G1	0F7978CB79BC6DA9536C17E082672514	63:69:87:97:95:C1:2B:A5:F3:F4:4D:1A:AB:E2:92:D3:86:C7:33:CC	39:97:C7:21:89:3B:39:26:D3:93:8A:31:1C:A0:7A:26:1B:2A:E2:2E:01:DC:58:7F:18:1D:FF:15:B9:8B:4E:A6
C=CN, O=TrustAsia Technologies, Inc., OU=Domain Validated SSL, CN=TrustAsia Technologies, Inc. DV SSL CA - G2	023A91	63:53:94:51:40:BF:98:77:9F:14:9E:C7:D2:89:2F:39:A3:CB:8F:97	C1:89:49:E3:65:9F:F7:DF:22:B3:0E:C4:DA:6B:43:41:AF:8B:EE:00:E4:17:7A:7F:86:FF:59:BC:46:B6:BA:40
C=DE, O=CertCenter AG, OU=Domain Validated SSL, CN=AlwaysOnSSL CA - G1	10DA57D151DF993CC13F0D0938320702	C5:19:F8:F5:47:77:A7:74:B0:4F:31:AC:25:DC:A7:E5:92:8F:83:21	EF:44:78:EB:09:4C:48:FB:9F:EA:CA:09:73:62:70:49:9C:A5:2E:B0:4E:3F:8E:E4:C1:B2:ED:C9:96:03:98:FD
C=DE, O=CertCenter AG, OU=Domain Validated SSL, CN=AlwaysOnSSL CA - G2	023A8F	63:62:1C:BF:86:A6:F5:72:A3:76:58:2F:BA:69:9D:1E:FF:50:64:C5	7D:89:AE:91:8B:25:AF:DF:91:03:6E:EE:5C:15:E5:8C:60:0F:42:26:68:66:A8:DE:01:C7:1D:BC:63:5C:A1:C0
C=DE, O=STRATO AG, OU=Domain Validated SSL, CN=STRATO SSL	023A6E	9C:86:76:86:68:F1:34:80:E3:DF:CC:40:57:CF:52:12:AD:5B:87:D5	2E:7E:65:BB:1A:01:3D:AF:0B:DF:69:38:50:2E:43:E3:82:17:FE:00:D7:6C:A2:F9:9F:7A:A9:E2:98:F4:85:34
C=DE, O=STRATO AG, OU=Domain Validated SSL, CN=STRATO SSL - G2	023A7C	89:30:C3:1A:0C:BD:AD:55:83:57:DF:7D:59:A8:CD:58:1C:12:72:F0	78:DC:9C:A5:F4:C2:91:3F:3F:B7:4A:C5:2D:FF:FC:D2:30:0D:A5:A7:72:FC:2B:84:C5:3A:2E:74:43:7E:DD:20
C=DE, O=STRATO AG, OU=Domain Validated SSL, CN=STRATO SSL - G3	3D3C4BFA06D2878F09FBCEB846875F93	09:7A:6D:83:23:79:A4:0F:FA:1B:29:67:DE:CB:B7:BA:ED:EA:E8:04	4F:D7:34:19:04:6F:90:86:88:26:D5:81:53:69:31:D2:2E:54:94:3E:BC:D0:59:CB:76:21:39:4D:74:93:43:C5
C=DE, O=STRATO AG, OU=Domain Validated SSL, CN=STRATO SSL - G4	023A89	5D:80:02:9A:CD:6B:9F:17:6B:23:7F:4E:21:DC:2C:FF:EF:48:81:DD	BC:3F:0A:DC:5F:F8:6A:4B:37:4D:C6:91:F8:FE:27:3B:1B:87:DC:73:E4:38:24:F5:FE:7F:36:C3:E0:00:83:11
C=DE, O=STRATO AG, OU=Domain Validated SSL, CN=STRATO SSL - G5	6989E500A92B4D3D06D47EB455D1CDE5	6F:EE:BF:0B:30:E9:DE:52:47:6D:57:77:22:B2:A5:A8:51:10:A5:FF	8C:88:BA:51:05:29:B6:42:63:CC:B2:1A:73:D8:2B:A5:72:5A:55:C1:44:6F:25:47:BC:E3:01:FC:DC:43:14:DB
C=DE, O=STRATO AG, OU=Domain Validated SSL, CN=STRATO SSL CA - G4	023A88	7E:D0:83:AE:25:C7:00:88:68:BF:BE:A7:C1:06:0B:E6:DF:50:8F:8C	51:39:62:DB:15:55:DE:38:59:28:3A:81:B3:F7:02:DC:25:A5:44:E6:D1:A7:17:F6:05:39:7B:D7:EA:91:3B:76
C=JP, O=NTT DOCOMO, INC., OU=GeoRoot Certification Authority, CN=DKHS Device CA	0236CD	68:1B:7A:CE:23:28:00:F1:67:08:D4:2E:8A:A4:12:4A:F5:33:F8:75	12:34:65:EE:C4:09:2F:8C:F7:AB:FE:92:B8:C7:01:AC:09:EA:79:A4:98:F1:D3:F6:A0:2C:17:14:F3:9A:84:23
C=JP, O=NTT DOCOMO, INC., OU=GeoRoot Certification Authority, CN=DKHS Device CA	0236CC	A0:2B:D3:AE:51:5C:AD:6A:93:49:92:11:62:37:BC:3E:25:B6:50:8E	32:25:1B:9B:B3:D7:64:21:D3:B3:00:FC:ED:47:57:EE:E0:41:67:A7:27:90:4A:C1:88:B3:51:11:1D:26:1F:56



C=JP, O=NTT DOCOMO, INC., OU=GeoRoot Certification Authority, CN=DKHS Device CA - G2	023A80	1C:F9:42:06:E4:A8:00:BC:9 6:CF:CB:F1:44:F2:87:38:27 :A8:8E:17	F7:AE:9B:58:70:DC:DA:43: 19:05:AE:A0:3B:39:93:A3:4 E:87:7B:87:6B:78:41:52:81 :7F:1C:58:65:7E:37:C4
C=JP, O=NTT DOCOMO, INC., OU=GeoRoot Certification Authority, CN=DKHS Device CA - G2	023A81	C0:EC:D0:61:AC:BA:34:35: 7A:EA:F6:07:79:8B:03:4A:5 9:29:42:2B	56:CB:B0:FF:C4:14:E8:88:2 2:A5:0E:9F:42:D4:68:20:38 :1D:8C:2A:AE:EF:56:E0:56: 68:17:ED:30:F2:7A:27
C=NL, O=Intermediate Certificate, OU=Domain Validated SSL, CN=Intermediate Certificate DV SSL CA	023A60	B8:8B:12:4D:AF:3C:56:5B: 49:3A:C9:31:B5:DB:AC:29: 4F:12:97:1B	8C:27:45:35:22:89:E9:94:B 3:EA:34:94:45:B1:CF:64:18 :E5:17:40:E1:61:4F:8B:56: 67:DA:D2:99:0A:AE:FB
C=NL, O=Intermediate Certificate, OU=Domain Validated SSL, CN=Intermediate Certificate DV SSL CA - G2	023A7B	7A:D6:B0:09:15:1B:F9:55: CA:CB:BF:A0:14:A0:8B:7E: BA:4F:D3:91	D8:76:A0:81:FB:38:27:BA: 22:A4:08:7D:F6:75:12:6F:F 8:A9:6A:AB:90:36:4B:C6:1 F:62:CE:8E:95:07:AA:93
C=NL, O=Intermediate Certificate, OU=Domain Validated SSL, CN=Intermediate Certificate DV SSL CA - G3	48311FB72B93A8891 9860E2F9A2387E3	B9:C6:48:4C:97:E0:26:66:3 E:BA:54:12:38:79:0E:6B:11 :6C:69:8D	E8:6B:C1:6C:C6:49:1E:5F:4 B:99:76:31:38:42:B3:D0:2C :99:EA:26:3A:EB:1D:C2:23: D8:98:FA:87:C8:48:45
C=NL, O=Trust Provider B.V., OU=Domain Validated SSL, CN=Trust Provider B.V. DV SSL CA - G1	7F2CF12628D31B327 82845B40F560CAE	E5:01:A0:64:1A:31:08:21:F C:B2:A0:67:7E:C5:9E:82:B 1:F8:59:D6	D6:EA:10:61:C2:8B:3D:B9: 6F:F5:BA:A1:40:AB:57:14:E 6:B0:B4:F5:D7:1A:BC:CD:2 4:2A:49:B9:B9:F4:DC:27
C=NL, O=Trust Provider B.V., OU=Domain Validated SSL, CN=Trust Provider B.V. DV SSL CA - G2	023A8E	C2:86:BC:CD:A5:70:09:28: 1B:21:0B:CC:4A:E1:83:FF: D0:9F:11:D7	81:05:1C:35:5E:C9:F5:A8:9 F:BA:91:D1:A5:BD:3F:05:0 1:EA:CD:80:EF:93:B2:18:00 :3D:95:CF:25:1A:76:70
C=US, O=GeoTrust Inc, OU=GeoTrust TimeStamping CA, CN=GeoTrust TimeStamping CA I	02359E	1D:70:68:AB:BE:A7:6B:0E: E2:2E:11:36:B2:65:01:FD:4 F:0D:FB:B3	D3:60:27:A8:5F:E1:ED:CB: A4:F1:BA:92:C3:C8:B3:78: 64:E8:62:D2:B4:A0:2B:8F:F 6:43:F5:82:60:9F:6A:08
C=US, O=GeoTrust Inc, OU=GeoTrust TimeStamping CA, CN=GeoTrust TimeStamping CA I	02359D	3F:B8:EF:A7:CD:57:C7:8E: 64:1D:E4:CA:B1:54:A0:D1: 94:B8:F4:87	32:1D:F6:81:FB:13:68:22:5 9:A5:72:BE:65:FD:DB:8E:6 C:9A:2C:B2:1F:94:56:83:D 3:B7:04:51:7B:C1:92:E4
C=US, O=GeoTrust Inc., CN=GeoTrust EV SSL CA - G4	6E8A90EBCFF0448A7 20D0805D082A544	30:56:B3:43:48:5B:9D:55:F 3:E2:B1:77:A8:95:BB:04:63 :EE:3E:FD	95:B0:9D:02:12:2F:A8:AE:6 2:35:78:0F:6E:A6:50:3E:76 :7A:CO:21:A0:87:4F:E8:31: CE:80:3A:50:EA:8F:D7
C=US, O=GeoTrust Inc., CN=GeoTrust EV SSL CA - G5	3CB6BC2996B37A14A 792D1E5D8EC335A	71:71:C0:5A:62:7D:7C:63: 5F:8A:4D:F4:0F:7A:F5:B8:1 B:DE:B7:6D	5B:2A:E8:AB:F5:E7:E5:63:B B: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	010019F5AA7269F88 C1E1C1211EC8D4F	B7:20:88:E6:F1:87:89:06:8 F: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:E9:2 E: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	0100200B7C009A10A 6DC0BE9EFA8FEF8	6B:F6:9B:90:22:C0:89:DF:4 B:49:BA:21:2B:8A:92:66:D 7:5A:44:66	54:6C:AF:F9:06:0E:EF:30:F 4: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	5418A02AD0BF5719D DF72336B147FOBA	E2:8A:01:56:B0:3C:75:E0:5 F: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:B5:5 B:73:2D:5A:C5:31:13:7A:7 B:52:2D:CF:E0:4A:05:92
C=US, O=GeoTrust Inc., CN=GeoTrust Extended Validation SSL CA - G2	0B1DB1A919F24C3C4 EFCB57A6A4E6CBF	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:D 4:7A:70:D7:01:3E:B3:AA:9 4:DB:C3:B7:B5:AB:06:62
C=US, O=GeoTrust Inc., CN=GeoTrust SHA256 SSL CA	4182127D12D9C6B32 1394312566400B8	2C:9A:FC:A5:55:8A:C6:A3: 25:C4:D0:27:63:16:D4:5F:0 6:B4:DD:37	D9:E0:C6:4A:B2:7A:64:D7: 9C:CC:F4:2A:34:EC:75:A2: 51:A7:E5:43:35:3C:19:E9:8 4:A7:0E:B2:F5:46:CD:FF
C=US, O=GeoTrust Inc., CN=GeoTrust SSL CA - G2	023A63	4F:56:64:48:58:82:9F:FB:8 5:A7:70:17:1A:CC:F9:F8:40 :7A:13:7B	90:AF:11:E5:77:C7:2C:94:0 B:40:EC:2F:3D:50:50:73:10 :09:1E:E6:19:6C:9C:16:B2: 28:88:22:64:A4:D8:08
C=US, O=GeoTrust Inc., CN=GeoTrust SSL CA - G2	023A62	95:6B:79:1B:2C:DD:61:FD: 26:65:4B:37:58:57:0E:4A:E F:DD:23:1F	5F:7C:89:EB:86:98:C2:0E:5 B:A9:EA:23:F0:D1:2E:DB:C 8:DB:1E:1D:27:62:64:B0:D 4:D1:59:A0:DE:DF:BD:8F
C=US, O=GeoTrust Inc., CN=GeoTrust SSL CA - G3	023A6F	5A:EA:EE:3F:7F:2A:94:49: CE:BA:FE:EC:68:FD:D1:84: F2:01:24:A7	07:45:41:EC:DF:88:ED:99:2 E:D5:AD:E3:EC:DD:EF:27:A 2:6B:A1:B4:44:80:A1:95:C0 :A8:DA:DA:E2:52:1D:8E
C=US, O=GeoTrust Inc., CN=GeoTrust SSL CA - G4	023A79	AC:8F:7C:5B:C8:6E:F1:89: 6F:2D:16:1C:32:A5:7A:AB: 37:D3:64:DA	21:1D:DF:50:59:22:9B:35:7 7:76:0D:62:3D:51:48:DB:9 2:F2:D0:52:6E:A5:30:3E:7E :EA:03:00:D9:FA:FF:3F
C=US, O=GeoTrust Inc., CN=RapidSSL CA - G2	023A6C	A1:89:08:F0:9A:C3:9F:2C:9 7:EA:F2:57:72:B2:BA:19:5E :AE:DD:E7	0D:CD:C0:7E:CA:BB:BF:E3: 8A:46:06:BA:66:39:87:CD: B3:BD:98:17:FC:67:D1:DD: 0C:F0:94:AC:8C:A2:78:7D
C=US, O=GeoTrust Inc., CN=RapidSSL SHA256 CA	023A71	C8:6E:DB:C7:1A:B0:50:78: F6:1A:CD:F3:D8:DC:5D:B6: 1E:B7:5F:B6	E6:68:3E:88:31:5C:D1:CB: 40:3C:0C:EA:49:0F:7C:4B: 4C:82:C9:1C:D4:85:03:74: 89:AA:DB:AA:90:83:9F:61
C=US, O=GeoTrust Inc., CN=RapidSSL SHA256 CA - G2	48E99440D436491CB 8B8823D094394C7	2E:49:16:B0:7F:3D:E9:0C:8 D:DE:25:66:FD:9B:9B:40:0 D:89:BB:BA	92:EF:2F:5B:55:35:70:60:7 D:C2:9C:80:10:E7:AB:C1:6 2:83:FE:35:5F:95:5A:24:82 :54:29:0A:26:0A:9E:BB
C=US, O=GeoTrust Inc., CN=RapidSSL SHA256 CA - G3	023A77	0E:34:14:18:46:E7:42:3D:3 7:F2:0D:C0:AB:06:C9:BB:D 8:43:DC:24	BC:3F:03:A4:36:24:0E:DB: A5:F8:37:14:F6:F6:77:E3:4 B:37:F9:B1:F0:C0:8C:1E:55 :8D:98:1E:27:9E:82:09
C=US, O=GeoTrust Inc., CN=RapidSSL SHA256 CA - G4	281C8929661443804 263553A3240AEB3	DC:07:7C:4A:B3:42:2F:60: 8C:EE:83:D9:09:8B:FC:3A: 72:26:D6:A7	5B:87:E2:22:F2:03:46:FA:3 6:28:81:6E:D6:CE:71:FA:A B:A0:85:7F:B8:BC:BA:73:7 7:6E:A1:FA:56:CD:00:57
C=US, O=GeoTrust Inc., OU=Domain Validated SSL, CN=GeoTrust DV SSL CA	0236D2	BA:E3:0B:15:DB:B1:54:4C: F1:94:D0:76:B7:5B:7B:B9:E 3:D6:B7:60	C2:7F:D4:B8:5E:96:D3:77: 7C:68:AB:7D:F6:AA:4E:62: 6B:F3:FF:8C:72:B1:CE:81: D1:EB:78:BA:BE:B1:A0:74



C=US, O=GeoTrust Inc., OU=Domain Validated SSL, CN=GeoTrust DV SSL CA - G2	023A6B	E0:8B:1B:52:E7:8C:97:57:02:08:17:60:F2:16:D3:72:E1:83:EC:5C	DE:DB:31:CB:CE:C5:F9:9D:38:E8:6E:CC:4D:76:94:5D:F4:0F:2E:54:7C:94:E4:B0:12:40:94:87:5A:F6:A5:58
C=US, O=GeoTrust Inc., OU=Domain Validated SSL, CN=GeoTrust DV SSL CA - G3	023A73	55:83:E3:E1:A7:51:17:21:1E:AF:C8:5E:D1:15:BB:C1:A C:96:9D:B5	51:CF:0F:FF:C3:25:3F:C0:13:AF:78:6F:95:B1:90:10:9F:8C:87:F3:4D:FD:1C:EC:44:C4:58:88:78:9F:53:55
C=US, O=GeoTrust Inc., OU=Domain Validated SSL, CN=GeoTrust DV SSL CA - G4	023A78	35:E5:40:F4:D3:6E:94:D9:00:5B:18:DC:E2:7C:A2:AE:8 C:A0:02:0D	8B:C1:B9:D7:DE:FC:CA:1C:CD:09:BA:CD:A8:8F:27:76:20:92:F1:ED:4A:34:AE:5E:46:02:BB:9C:C9:15:C5:06
C=US, O=GeoTrust Inc., OU=Domain Validated SSL, CN=GeoTrust DV SSL SHA256 CA	5E631640DD196632B493A3300790D756	86:8E:B3:38:C9:C0:D3:72:71:D1:D3:79:27:16:07:97:04:10:7A:85	78:4A:CA:10:63:BE:47:00:B3:A6:2F:45:C2:F9:3B:7E:EF:8B:F2:30:FB:86:96:10:E8:64:FC:4B:3A:23:D0:9F
C=US, O=GeoTrust Inc., OU=Domain Validated SSL, CN=GeoTrust DV SSL SHA256 CA - G2	1127EA3641C63623324773D52372B202	A9:F3:F9:E7:06:F2:63:FC:AF:80:A2:90:C3:98:69:A2:C4:91:CE:56	3F:DF:78:8A:5A:65:E6:A2:9D:8C:15:50:D8:24:49:06:A3:B8:A7:B7:D3:DA:9B:DE:DD:74:8E:41:83:A7:63:C9
C=US, O=GeoTrust Inc., OU=GeoTrust Authentication Services, CN=GeoTrust True Identity CA 2	023A58	A4:C7:79:FC:07:94:BB:BA:A6:E7:14:DE:C3:1D:46:AB:CE:5D:B9:70	FF:1D:35:ED:46:40:63:D6:03:1C:71:E4:14:26:2C:C2:31:0E:8C:54:7A:B7:F7:CF:29:55:C9:E0:34:9E:53:3F
C=US, O=GeoTrust, Inc., CN=GeoTrust ECC EV SSL CA	0F0C3729FDF4955BF865EBC5EEF432FC	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
C=US, O=GeoTrust, Inc., CN=GeoTrust SSL CA	0236D0	78:0A:06:F6:E9:B4:06:1C:AD:0C:65:02:71:06:06:EB:53:5F:1C:26	D4:C4:C9:98:19:F3:A5:F2:C6:26:1C:94:44:C6:2A:8B:26:3B:39:BC:6A:CC:E3:5C:DC:AB:E2:72:D5:03:7F:B2
C=US, O=GeoTrust, Inc., CN=GeoTrust True Credentials CA 3	023A61	3C:24:FD:4E:7F:02:55:D7:ED:A2:3D:96:75:54:97:C6:52:A4:D9:60	5D:74:ED:61:D0:B3:11:E9:81:BB:CF:0F:41:9A:35:FA:9F:A1:EC:70:FF:1A:EB:74:2D:73:BC:FE:BA:06:CF:FF
C=US, O=GeoTrust, Inc., CN=RapidSSL CA	0236D1	C0:39:A3:26:9E:E4:B8:E8:2D:00:C5:3F:A7:97:B5:A1:9E:83:6F:47	6D:5B:C9:79:46:1C:72:64:E1:71:00:10:CD:7D:4E:A3:EC:57:FA:11:21:5F:04:FF:A5:16:AE:61:95:9A:B2:B2
C=US, O=GeoTrust, Inc., OU=Domain Validated SSL, CN=GeoTrust Secure Site Starter DV SSL CA - G1	4DC436F724F684DB8C79499993F0994E	84:7E:D8:BD:0A:46:F1:0A:89:B1:3D:C3:A1:1F:95:B3:22:D3:F1:3C	62:FB:9B:6C:D2:63:3B:92:D9:1D:B2:64:CE:67:8A:9B:19:C5:75:41:4A:B1:0A:D4:6D:15:7F:07:BB:A2:6E:FF
C=US, O=GeoTrust, Inc., OU=Domain Validated SSL, CN=Secure Site Starter DV SSL CA - G2	42C7E6E9845223DD101F3631D58708AD	99:16:1F:DB:4C:5A:40:88:75:7F:42:E0:D1:15:7B:38:1D:5E:E1:71	64:85:36:13:C2:43:63:99:60:3D:0D:56:0B:52:F0:4B:88:F8:1A:81:74:6E:42:38:98:83:A4:F5:9A:45:64:D5
C=US, O=GeoTrust, Inc., OU=Domain Validated SSL, CN=Secure Site Starter DV SSL CA - G3	023A85	F0:02:9E:79:4D:51:80:63:4B:34:AE:E2:9F:29:13:58:23:2F:AA:04	2F:CC:00:9A:AF:DB:28:E9:25:64:30:41:0A:6F:A6:E7:6A:F0:93:01:B1:04:4F:EA:AA:CA:B0:02:15:AA:39:E1



C=US, O=GeoTrust, Inc., OU=For Internal Use Only, CN=RapidSSL Enterprise CA	023A5A	49:EA:7A:73:31:F1:31:2E:5C:58:B7:C3:07:32:53:FC:46:16:E4:D3	2A:40:0E:47:8B:9F:56:C1:37:62:A4:97:54:14:4B:6B:8C:4A:5A:1D:C8:E7:B3:1E:44:1D:0D:BD:1A:6A:4B:E4
C=US, O=GeoTrust, Inc., OU=For Internal Use Only, CN=RapidSSL Enterprise CA	023A5B	B5:DA:CA:45:79:09:34:37:CE:0F:DD:C6:33:D2:DD:B1:ED:0E:7C:72	87:AA:71:AF:03:2E:36:BD:69:DA:F4:01:4F:CA:D8:F2:73:3A:A0:0D:EA:B9:59:33:5A:E3:86:6E:4B:6D:3A:1D
C=US, O=Symantec Corporation, CN=Symantec SAS Code Signing CA	023A72	49:7D:69:1C:07:70:8A:FD:F2:BA:1B:05:99:0B:FF:89:50:4F:BC:DE	27:9A:05:5E:2C:41:A9:10:5F:DF:D2:63:43:22:9D:0D:38:12:58:72:45:5C:43:34:4D:DE:BC:AE:5A:0B:F7:36
C=US, O=Symantec Corporation, CN=Symantec SAS EV Code Signing CA	5D74EC40C72FA11E6B91C2E5BAC472FF	8E:F6:55:31:C8:88:7C:73:9E:2B:BD:51:8A:37:FA:C2:CD:69:0D:53	E8:65:F5:83:A9:28:CC:B6:A7:28:6B:94:E7:92:0E:E1:F4:99:8C:03:0B:43:86:89:E9:58:3B:CC:D6:AC:52:61
C=US, O=Symantec Corporation, CN=Symantec SHA1 SAS Code Signing CA	023A84	2B:35:08:C4:C2:EE:D9:32:F2:D8:29:22:9F:E4:05:0F:A4:AF:12:1E	F8:2C:F9:00:3A:28:69:3F:43:0C:7E:93:95:81:09:7B:A0:97:C9:3A:EE:51:0A:10:5D:78:22:32:4F:36:4C:9A
C=US, O=Symantec Corporation, CN=Symantec Time Stamping Services CA - G2	023A64	44:D7:BC:27:88:29:17:14:72:CA:B5:41:9C:4A:BD:F1:AC:60:EA:C9	83:C1:EA:9E:9E:FC:A2:83:B8:40:E1:67:F9:EA:79:C4:E3:2A:CD:33:83:4F:59:D1:38:FC:DA:B9:D8:80:6B:20
C=US, O=Volusion, Inc., OU=Domain Validated SSL, CN=Volusion, Inc. DV SSL CA	023A5C	AF:83:5B:6C:3F:58:DF:1F:CF:E5:3C:DC:57:51:53:2C:F0:F0:78:2D	8F:DA:7A:88:13:54:6F:9A:7C:B0:65:CD:32:D3:65:0D:5B:56:A2:B7:F9:42:B9:49:9A:EB:42:A8:6A:3E:9D:56
C=US, O=Volusion, Inc., OU=Domain Validated SSL, CN=Volusion, Inc. DV SSL CA - G2	023A7A	2B:1E:D6:E9:4F:6C:88:F4:A7:AF:7C:A9:5F:FC:EF:30:A2:B5:0D:50	6F:F6:F6:3F:6A:0D:3D:63:44:6C:DA:A5:23:D2:62:73:B1:26:C0:2F:92:2E:05:D7:3C:47:48:EB:89:B8:63:93
C=US, O=Volusion, Inc., OU=Domain Validated SSL, CN=Volusion, Inc. DV SSL CA - G3	6525B603299E50D5FB1D92120F7E0622	EF:20:DE:67:87:91:5C:1E:74:69:2E:5C:8A:52:6F:70:37:EA:54:60	80:D9:ED:B4:5B:7F:59:2C:D3:02:54:E5:5B:C3:16:BB:F4:4E:47:DF:C0:C0:04:A3:83:28:1C:03:F3:45:BA:39
C=US, O=Volusion, Inc., OU=Domain Validated SSL, CN=Volusion, Inc. DV SSL CA - G4	023A87	C4:E3:1F:D9:A1:30:9C:0C:F8:C9:27:4D:2A:32:26:CB:5C:6B:D2:6B	ED:67:93:70:83:B0:73:9F:30:23:96:F9:74:AF:B4:1B:FB:A6:48:47:39:67:78:0B:2C:59:B8:8A:C4:12:1A:D4
C=US, O=Volusion, Inc., OU=Domain Validated SSL, CN=Volusion, Inc. DV SSL CA - G5	0CBEE62D6194EB94B579926557FB3011	A1:32:4C:43:09:CB:02:02:23:A0:06:C1:E0:78:F8:10:0C:68:BE:7F	9F:E3:06:E6:63:E4:59:64:46:44:F6:0A:71:53:A2:21:43:6F:B9:70:1A:0E:BD:91:24:EE:F8:15:9D:15:CB:43



DIGICERT, INC. MANAGEMENT'S ASSERTION

DigiCert, Inc. ("DigiCert") operates the GeoTrust Certification Authority ("CA") for its CAs as enumerated in [Attachment B](#), and provides the following CA services:

- Subscriber registration
- Certificate renewal
- Certificate rekey
- Certificate issuance
- Certificate distribution
- Certificate revocation
- Certificate validation
- Subscriber key generation and management
- Subordinate CA certification

The management of DigiCert is responsible for establishing and maintaining controls over its CA operations, including its CA business practices disclosure on its [website](#), CA business practices management, CA environmental controls, CA key lifecycle management controls, subscriber key lifecycle management controls, certificate lifecycle management controls, and subordinate CA certificate lifecycle management controls. 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 DigiCert's GeoTrust Certification Authority operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

DigiCert management has assessed its disclosures of its certificate practices and controls over its CA services. Based on that assessment, in DigiCert management's opinion, in providing its CA services at Mountain View, California, USA; New Castle, Delaware, USA; Melbourne, Australia; Sydney, Australia; Cape Town, South Africa; Dublin, Ireland; Sapporo, Japan; and Kawasaki-shi, Japan, throughout the period November 1, 2017 to October 31, 2018, DigiCert has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in the applicable versions of its DigiCert Certification Practices Statement for GeoTrust, RapidSSL and FreeSSL and DigiCert Certificate Policy for Symantec Trust Network (STN) enumerated in [Attachment A](#)
- maintained effective controls to provide reasonable assurance that:
 - DigiCert's Certification Practice Statement is consistent with its Certificate Policy; and
 - DigiCert provides its services in accordance with its Certificate Policy and Certification Practice Statement



- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and certificates it manages is established and protected throughout their lifecycles;
 - the integrity of subscriber keys and certificates it manages is established and protected throughout their lifecycles;
 - subscriber information is properly authenticated; and
 - subordinate CA certificate requests are accurate, authenticated, and approved

- 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

based on [WebTrust Principles and Criteria for Certification Authorities v2.1](#), including the following:

CA Business Practices Disclosure

- Certificate Practice Statement (CPS)
- Certificate Policy (CP)

CA Business Practices Management

- Certificate Policy Management
- Certification Practice Statement Management
- CP and CPS Consistency

CA Environmental Controls

- Security Management
- Asset Classification and Management
- Personnel Security
- Physical and Environmental Security
- Operations Management
- System Access Management
- System Development, Maintenance, and Change Management
- Disaster Recovery, Backups, and Business Continuity Management
- Monitoring and Compliance
- Audit Logging

CA Lifecycle Management Controls

- CA Key Generation
- CA Key Storage, Backup, and Recovery
- CA Public Key Distribution
- CA Key Usage
- CA Key Archival
- CA Key Destruction



- CA Key Compromise
- CA Cryptographic Hardware Lifecycle Management
- CA Key Transportation
- CA Key Migration

Certificate Lifecycle Management Controls

- Subscriber Registration
- Certificate Renewal
- Certificate Rekey
- Certificate Issuance
- Certificate Distribution
- Certificate Revocation
- Certificate Validation

Subordinate CA Certificate Lifecycle Management Controls

- Subordinate CA Certificate Lifecycle Management

DigiCert does not escrow its CA keys, does not provide subscriber key lifecycle management controls, and does not provide certificate suspension services. Accordingly, our assertion does not extend to controls that would address those criteria.

DigiCert, Inc.

A photograph of a handwritten signature in blue ink on a light-colored background. The signature is stylized and appears to read 'Jeremy Rowley'.

Jeremy Rowley
Executive VP of Product

January 29, 2019



Attachment A - Certification Practice Statement and Certificate Policy Versions In-Scope

Policy Name	Version	Date
DigiCert Certification Practices Statement for GeoTrust, RapidSSL and FreeSSL	1.2	September 11, 2018
GeoTrust Certification Practices Statement	1.1.21	September 8, 2017
DigiCert Certificate Policy for Symantec Trust Network (STN)	2.9	September 11, 2018
Symantec Trust Network (STN) Certificate Policy	2.8.24	September 8, 2017



Attachment B - List of CAs In-Scope

Root CA	Serial Number	SHA1 Thumbprint	SHA2 Thumbprint
C=US, O=GeoTrust Inc., OU=(c) 2008 GeoTrust Inc. - For authorized use only, CN=GeoTrust Primary Certification Authority - G3	15AC6E9419B2794B41F627A9C3180F1F	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:A6:2:5E:E8:29:16:E2:CD:29:43:61:88:6C:D1:FB:D4
C=US, O=GeoTrust Inc., CN=GeoTrust Primary Certification Authority	18ACB56AFD69B6153A636CAFDAFAC4A1	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., CN=GeoTrust Universal CA 2	01	37:9A:19:7B:41:85:45:35:0C:A6:03:69:F3:3C:2E:AF:47:4F:20:79	A0:23:4F:3B:C8:52:7C:A5:62:8E:EC:81:AD:5D:69:89:5D:A5:68:0D:C9:1D:1C:B8:47:7F:33:F8:78:B9:5B:0B
C=US, O=GeoTrust Inc., OU=(c) 2007 GeoTrust Inc. - For authorized use only, CN=GeoTrust Primary Certification Authority - G2	3CB2F4480A00E2FEEB243B5E603EC36B	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., CN=GeoTrust Global CA	023456	DE:28:F4:A4:FF:E5:B9:2F:A3:C5:03:D1:A3:49:A7:F9:96:2A:82:12	FF:85:6A:2D:25:1D:CD:88:D3:66:56:F4:50:12:67:98:CF:AB:AA:DE:40:79:9C:72:2D:E4:D2:B5:DB:36:A7:3A
C=US, O=GeoTrust Inc., CN=GeoTrust Global CA 2	01	A9:E9:78:08:14:37:58:88:F2:05:19:B0:6D:2B:0D:2B:60:16:90:7D	CA:2D:82:A0:86:77:07:2F:8A:B6:76:4F:F0:35:67:6C:FE:3E:5E:32:5E:01:21:72:DF:3F:92:09:6D:B7:9B:85
C=US, O=GeoTrust Inc., CN=GeoTrust Universal CA	01	E6:21:F3:35:43:79:05:9A:4B:68:30:9D:8A:2F:74:22:15:87:EC:79	A0:45:9B:9F:63:B2:25:59:F5:FA:5D:4C:6D:B3:F9:F7:2F:F1:93:42:03:35:78:F0:73:BF:1D:1B:46:CB:B9:12

Cross Signed CAs				
Issuer	Subject	Serial Number	SHA1 Thumbprint	SHA2 Thumbprint
C=US, O=GeoTrust Inc., CN=GeoTrust Primary Certification Authority	C=US, O=DigiCert, Inc, OU=www.digicert.com, CN=GeoTrust Primary Transition Root	4DBD50EDA475A389AD18A0AA247D57C5	37:C8:DB:17:B0:D2:10:74:54:2B:77:0B:E2:D8:2E:55:95:2F:0A:64	F5:4F:6C:ED:56:CF:68:2B:57:0A:6C:AE:C3:13:E9:48:27:60:DE:12:E8:F9:28:AE:30:45:2C:4C:66:AC:76:1A

Class 3 CA	Serial Number	SHA1 Thumbprint	SHA2 Thumbprint
C=CH, O=Hostpoint AG, OU=Domain Validated SSL, CN=Hostpoint DV SSL CA - G1	5DC83594AA94674ABD0559D00CA943CA	0D:BB:0D:76:FC:68:A0:F7:C9:FF:DD:9F:80:35:12:02:BD:31:69:15	9F:4E:3C:42:FA:FE:DA:3C:F8:8C:05:CC:4B:4A:F0:C0:AF:30:64:15:C3:0D:3D:1E:EB:ED:EB:F7:D1:77:A9:82
C=CH, O=Hostpoint AG, OU=Domain Validated SSL, CN=Hostpoint DV SSL CA - G2	023A8D	51:F5:6D:08:1A:8D:FD:E5:6E:DA:F1:8A:81:EB:2E:6C:A6:8A:E3:AC	AB:D6:D0:53:FD:BE:35:6D:07:50:50:18:15:86:B0:B9:C2:B8:C0:32:98:AB:CE:64:CE:25:C4:04:01:DF:3B:22
C=CH, O=Hostpoint AG, OU=Domain Validated SSL, CN=Hostpoint DV SSL CA - G2	023A8C	E8:69:36:C0:28:9D:99:87:F3:E6:36:98:56:47:B6:7E:79:03:82:F6	2F:E0:55:9F:55:57:67:0C:F5:C8:AE:01:22:38:73:B8:83:6C:AE:2C:FD:25:96:1C:C9:8E:E2:B9:43:A2:D6:5A
C=CN, O=TrustAsia Technologies, Inc., OU=Domain Validated SSL,	0F7978CB79BC6DA9536C17E082672514	63:69:87:97:95:C1:2B:A5:F3:F4:4D:1A:AB:E2:92:D3:86:C7:33:CC	39:97:C7:21:89:3B:39:26:D3:93:8A:31:1C:A0:7A:26:1



CN=TrustAsia Technologies, Inc. DV SSL CA - G1			B:2A:E2:2E:01:DC:58:7F:18:1D:FF:15:B9:8B:4E:A6
C=CN, O=TrustAsia Technologies, Inc., OU=Domain Validated SSL, CN=TrustAsia Technologies, Inc. DV SSL CA - G2	023A91	63:53:94:51:40:BF:98:77:9F:14:9E:C7:D2:89:2F:39:A3:CB:8F:97	C1:89:49:E3:65:9F:F7:DF:22:B3:0E:C4:DA:6B:43:41:A4:F:8B:EE:00:E4:17:7A:7F:86:FF:59:BC:46:B6:BA:40
C=DE, O=CertCenter AG, OU=Domain Validated SSL, CN=AlwaysOnSSL CA - G1	10DA57D151DF993CC13F0D0938320702	C5:19:F8:F5:47:77:A7:74:B3:04:F:31:AC:25:DC:A7:E5:92:8F:83:21	EF:44:78:EB:09:4C:48:FB:9F:EA:CA:09:73:62:70:49:9C:A5:2E:B0:4E:3F:8E:E4:C1:B2:ED:C9:96:03:98:FD
C=DE, O=CertCenter AG, OU=Domain Validated SSL, CN=AlwaysOnSSL CA - G2	023A8F	63:62:1C:BF:86:A6:F5:72:A3:76:58:2F:BA:69:9D:1E:FF:50:64:C5	7D:89:AE:91:8B:25:AF:DF:91:03:6E:EE:5C:15:E5:8C:60:0F:42:26:68:66:A8:DE:01:C7:1D:BC:63:5C:A1:C0
C=DE, O=STRATO AG, OU=Domain Validated SSL, CN=STRATO SSL	023A6E	9C:86:76:86:68:F1:34:80:E3:DF:CC:40:57:CF:52:12:AD:5B:87:D5	2E:7E:65:BB:1A:01:3D:AF:0B:DF:69:38:50:2E:43:E3:82:17:FE:00:D7:6C:A2:F9:9F:7A:A9:E2:98:F4:85:34
C=DE, O=STRATO AG, OU=Domain Validated SSL, CN=STRATO SSL - G2	023A7C	89:30:C3:1A:0C:BD:AD:55:83:57:DF:7D:59:A8:CD:58:1C:12:72:F0	78:DC:9C:A5:F4:C2:91:3F:3F:B7:4A:C5:2D:FF:FC:D2:30:0D:A5:A7:72:FC:2B:84:C5:3A:2E:74:43:7E:DD:20
C=DE, O=STRATO AG, OU=Domain Validated SSL, CN=STRATO SSL - G3	3D3C4BFA06D2878F09FBCBE8846875F93	09:7A:6D:83:23:79:A4:0F:FA:1B:29:67:DE:CB:B7:BA:ED:EA:E8:04	4F:D7:34:19:04:6F:90:86:88:26:D5:81:53:69:31:D2:2E:54:94:3E:BC:D0:59:CB:76:21:39:4D:74:93:43:C5
C=DE, O=STRATO AG, OU=Domain Validated SSL, CN=STRATO SSL - G4	023A89	5D:80:02:9A:CD:6B:9F:17:6B:23:7F:4E:21:DC:2C:FF:EF:48:81:DD	BC:3F:0A:DC:5F:F8:6A:4B:37:4D:C6:91:F8:FE:27:3B:1B:87:DC:73:E4:38:24:F5:FE:7F:36:C3:E0:00:83:11
C=DE, O=STRATO AG, OU=Domain Validated SSL, CN=STRATO SSL - G5	6989E500A92B4D3D06D47EB455D1CDE5	6F:EE:BF:0B:30:E9:DE:52:47:6D:57:77:22:B2:A5:A8:51:10:A5:FF	8C:88:BA:51:05:29:B6:42:63:CC:B2:1A:73:D8:2B:A5:72:5A:55:C1:44:6F:25:47:BC:E3:01:FC:DC:43:14:DB
C=DE, O=STRATO AG, OU=Domain Validated SSL, CN=STRATO SSL CA - G4	023A88	7E:D0:83:AE:25:C7:00:88:68:BF:BE:A7:C1:06:0B:E6:DF:50:8F:8C	51:39:62:DB:15:55:DE:38:59:28:3A:81:B3:F7:02:DC:25:A5:44:E6:D1:A7:17:F6:05:39:7B:D7:EA:91:3B:76
C=JP, O=NTT DOCOMO, INC., OU=GeoRoot Certification Authority, CN=DKHS Device CA	0236CD	68:1B:7A:CE:23:28:00:F1:67:08:D4:2E:8A:A4:12:4A:F5:33:F8:75	12:34:65:EE:C4:09:2F:8C:F7:AB:FE:92:B8:C7:01:AC:09:EA:79:A4:98:F1:D3:F6:A0:2C:17:14:F3:9A:84:23
C=JP, O=NTT DOCOMO, INC., OU=GeoRoot Certification Authority, CN=DKHS Device CA	0236CC	A0:2B:D3:AE:51:5C:AD:6A:93:49:92:11:62:37:BC:3E:25:B6:50:8E	32:25:1B:9B:B3:D7:64:21:D3:B3:00:FC:ED:47:57:EE:E0:41:67:A7:27:90:4A:C1:88:B3:51:11:1D:26:1F:56
C=JP, O=NTT DOCOMO, INC., OU=GeoRoot Certification Authority, CN=DKHS Device CA - G2	023A80	1C:F9:42:06:E4:A8:00:BC:96:CF:CB:F1:44:F2:87:38:27:A8:8E:17	F7:AE:9B:58:70:DC:DA:43:19:05:AE:A0:3B:39:93:A3:4E:87:7B:87:6B:78:41:52:81:7F:1C:58:65:7E:37:C4
C=JP, O=NTT DOCOMO, INC., OU=GeoRoot Certification Authority, CN=DKHS Device CA - G2	023A81	C0:EC:D0:61:AC:BA:34:35:7A:EA:F6:07:79:8B:03:4A:59:29:42:2B	56:CB:B0:FF:C4:14:E8:88:22:A5:0E:9F:42:D4:68:20:38:1D:8C:2A:AE:EF:56:E0:56:68:17:ED:30:F2:7A:27
C=NL, O=Intermediate Certificate, OU=Domain Validated SSL, CN=Intermediate Certificate DV SSL CA	023A60	B8:8B:12:4D:AF:3C:56:5B:49:3A:C9:31:B5:DB:AC:29:4F:12:97:1B	8C:27:45:35:22:89:E9:94:B3:EA:34:94:45:B1:CF:64:18:E5:17:40:E1:61:4F:8B:56:67:DA:D2:99:0A:AE:FB
C=NL, O=Intermediate Certificate, OU=Domain Validated SSL, CN=Intermediate Certificate DV SSL CA - G2	023A7B	7A:D6:B0:09:15:1B:F9:55:CA:CB:BF:A0:14:A0:8B:7E:BA:4F:D3:91	D8:76:A0:81:FB:38:27:BA:22:A4:08:7D:F6:75:12:6F:F8:A9:6A:AB:90:36:4B:C6:1F:62:CE:8E:95:07:AA:93



C=NL, O=Intermediate Certificate, OU=Domain Validated SSL, CN=Intermediate Certificate DV SSL CA - G3	48311FB72B93A88919860E2F9A2387E3	B9:C6:48:4C:97:E0:26:66:3E:BA:54:12:38:79:0E:6B:11:6C:69:8D	E8:6B:C1:6C:C6:49:1E:5F:4B:99:76:31:38:42:B3:D0:2C:99:EA:26:3A:EB:1D:C2:23:D8:98:FA:87:C8:48:45
C=NL, O=Trust Provider B.V., OU=Domain Validated SSL, CN=Trust Provider B.V. DV SSL CA - G1	7F2CF12628D31B32782845B40F560CAE	E5:01:A0:64:1A:31:08:21:F C:B2:A0:67:7E:C5:9E:82:B1:F8:59:D6	D6:EA:10:61:C2:8B:3D:B9:6F:F5:BA:A1:40:AB:57:14:E6:B0:B4:F5:D7:1A:BC:CD:24:2A:49:B9:B9:F4:DC:27
C=NL, O=Trust Provider B.V., OU=Domain Validated SSL, CN=Trust Provider B.V. DV SSL CA - G2	023A8E	C2:86:BC:CD:A5:70:09:28:1B:21:0B:CC:4A:E1:83:FF:D0:9F:11:D7	81:05:1C:35:5E:C9:F5:A8:9F:BA:91:D1:A5:BD:3F:05:01:EA:CD:80:EF:93:B2:18:00:3D:95:CF:25:1A:76:70
C=US, O=GeoTrust Inc, OU=GeoTrust TimeStamping CA, CN=GeoTrust TimeStamping CA I	02359E	1D:70:68:AB:BE:A7:6B:0E:E2:2E:11:36:B2:65:01:FD:4F:0D:FB:B3	D3:60:27:A8:5F:E1:ED:CB:A4:F1:BA:92:C3:C8:B3:78:64:E8:62:D2:B4:A0:2B:8F:F6:43:F5:82:60:9F:6A:08
C=US, O=GeoTrust Inc, OU=GeoTrust TimeStamping CA, CN=GeoTrust TimeStamping CA I	02359D	3F:B8:EF:A7:CD:57:C7:8E:64:1D:E4:CA:B1:54:A0:D1:94:B8:F4:87	32:1D:F6:81:FB:13:68:22:59:A5:72:BE:65:FD:DB:8E:6C:9A:2C:B2:1F:94:56:83:D3:B7:04:51:7B:C1:92:E4
C=US, O=GeoTrust Inc., CN=GeoTrust EV SSL CA - G4	6E8A90EBCFF0448A720D0805D082A544	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	3CB6BC2996B37A14A792D1E5D8EC335A	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	010019F5AA7269F88C1E1C1211EC8D4F	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	0100200B7C009A10A6DC0BE9EFA8FEF8	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	5418A02AD0BF5719DDF72336B147FOBA	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	0B1DB1A919F24C3C4EFCB57A6A4E6CBF	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 SHA256 SSL CA	4182127D12D9C6B321394312566400B8	2C:9A:FC:A5:55:8A:C6:A3:25:C4:D0:27:63:16:D4:5F:06:B4:DD:37	D9:E0:C6:4A:B2:7A:64:D7:9C:CC:F4:2A:34:EC:75:A2:51:A7:E5:43:35:3C:19:E9:84:A7:0E:B2:F5:46:CD:FF
C=US, O=GeoTrust Inc., CN=GeoTrust SSL CA - G2	023A63	4F:56:64:48:58:82:9F:FB:85:A7:70:17:1A:CC:F9:F8:40:7A:13:7B	90:AF:11:E5:77:C7:2C:94:0B:40:EC:2F:3D:50:50:73:10:09:1E:E6:19:6C:9C:16:B2:28:88:22:64:A4:D8:08
C=US, O=GeoTrust Inc., CN=GeoTrust SSL CA - G2	023A62	95:6B:79:1B:2C:DD:61:FD:26:65:4B:37:58:57:0E:4A:EF:DD:23:1F	5F:7C:89:EB:86:98:C2:0E:5B:A9:EA:23:F0:D1:2E:DB:C8:DB:1E:1D:27:62:64:B0:D4:D1:59:A0:DE:DF:BD:8F
C=US, O=GeoTrust Inc., CN=GeoTrust SSL CA - G3	023A6F	5A:EA:EE:3F:7F:2A:94:49:CE:BA:FE:EC:68:FD:D1:84:F2:01:24:A7	07:45:41:EC:DF:88:ED:99:2E:D5:AD:E3:EC:DD:EF:27:A2:6B:A1:B4:44:80:A1:95:C0:A8:DA:DA:E2:52:1D:8E



C=US, O=GeoTrust Inc., CN=GeoTrust SSL CA - G4	023A79	AC:8F:7C:5B:C8:6E:F1:89:6F:2D:16:1C:32:A5:7A:AB:37:D3:64:DA	21:1D:DF:50:59:22:9B:35:77:76:0D:62:3D:51:48:DB:92:F2:D0:52:6E:A5:30:3E:7E:EA:03:00:D9:FA:FF:3F
C=US, O=GeoTrust Inc., CN=RapidSSL CA - G2	023A6C	A1:89:08:F0:9A:C3:9F:2C:97:EA:F2:57:72:B2:BA:19:5E:AE:DD:E7	0D:CD:C0:7E:CA:BB:BF:E3:8A:46:06:BA:66:39:87:CD:B3:BD:98:17:FC:67:D1:DD:0C:F0:94:AC:8C:A2:78:7D
C=US, O=GeoTrust Inc., CN=RapidSSL SHA256 CA	023A71	C8:6E:DB:C7:1A:B0:50:78:F6:1A:CD:F3:D8:DC:5D:B6:1E:B7:5F:B6	E6:68:3E:88:31:5C:D1:CB:40:3C:0C:EA:49:0F:7C:4B:4C:82:C9:1C:D4:85:03:74:89:AA:DB:AA:90:83:9F:61
C=US, O=GeoTrust Inc., CN=RapidSSL SHA256 CA - G2	48E99440D436491CB8B8823D094394C7	2E:49:16:B0:7F:3D:E9:0C:8D:DE:25:66:FD:9B:9B:40:0D:89:BB:BA	92:EF:2F:5B:55:35:70:60:7D:C2:9C:80:10:E7:AB:C1:62:83:FE:35:5F:95:5A:24:82:54:29:0A:26:0A:9E:BB
C=US, O=GeoTrust Inc., CN=RapidSSL SHA256 CA - G3	023A77	0E:34:14:18:46:E7:42:3D:37:F2:0D:C0:AB:06:C9:BB:D8:43:DC:24	BC:3F:03:A4:36:24:0E:DB:A5:F8:37:14:F6:F6:77:E3:4B:37:F9:B1:F0:C0:8C:1E:55:8D:98:1E:27:9E:82:09
C=US, O=GeoTrust Inc., CN=RapidSSL SHA256 CA - G4	281C8929661443804263553A3240AEB3	DC:07:7C:4A:B3:42:2F:60:8C:EE:83:D9:09:8B:FC:3A:72:26:D6:A7	5B:87:E2:22:F2:03:46:FA:36:28:81:6E:D6:CE:71:FA:AB:A0:85:7F:B8:BC:BA:73:77:6E:A1:FA:56:CD:00:57
C=US, O=GeoTrust Inc., OU=Domain Validated SSL, CN=GeoTrust DV SSL CA	0236D2	BA:E3:0B:15:DB:B1:54:4C:F1:94:D0:76:B7:5B:7B:B9:E3:D6:B7:60	C2:7F:D4:B8:5E:96:D3:77:7C:68:AB:7D:F6:AA:4E:62:6B:F3:FF:8C:72:B1:CE:81:D1:EB:78:BA:BE:B1:A0:74
C=US, O=GeoTrust Inc., OU=Domain Validated SSL, CN=GeoTrust DV SSL CA - G2	023A6B	E0:8B:1B:52:E7:8C:97:57:02:08:17:60:F2:16:D3:72:E1:83:EC:5C	DE:DB:31:CB:CE:C5:F9:9D:38:E8:6E:CC:4D:76:94:5D:F4:0F:2E:54:7C:94:E4:B0:12:40:94:87:5A:F6:A5:58
C=US, O=GeoTrust Inc., OU=Domain Validated SSL, CN=GeoTrust DV SSL CA - G3	023A73	55:83:E3:E1:A7:51:17:21:1E:AF:C8:5E:D1:15:BB:C1:A C:96:9D:B5	51:CF:0F:FF:C3:25:3F:C0:13:AF:78:6F:95:B1:90:10:9F:8C:87:F3:4D:FD:1C:EC:44:C4:58:88:78:9F:53:55
C=US, O=GeoTrust Inc., OU=Domain Validated SSL, CN=GeoTrust DV SSL CA - G4	023A78	35:E5:40:F4:D3:6E:94:D9:00:5B:18:DC:E2:7C:A2:AE:8C:A0:02:0D	8B:C1:B9:D7:DE:FC:CA:1C:CD:09:BA:CD:A8:8F:27:76:20:92:F1:ED:4A:34:AE:5E:46:02:BB:9C:C9:15:C5:06
C=US, O=GeoTrust Inc., OU=Domain Validated SSL, CN=GeoTrust DV SSL SHA256 CA	5E631640DD196632B493A3300790D756	86:8E:B3:38:C9:C0:D3:72:71:D1:D3:79:27:16:07:97:04:10:7A:85	78:4A:CA:10:63:BE:47:00:B3:A6:2F:45:C2:F9:3B:7E:EF:8B:F2:30:FB:86:96:10:E8:64:FC:4B:3A:23:D0:9F
C=US, O=GeoTrust Inc., OU=Domain Validated SSL, CN=GeoTrust DV SSL SHA256 CA - G2	1127EA3641C63623324773D52372B202	A9:F3:F9:E7:06:F2:63:FC:AF:80:A2:90:C3:98:69:A2:C4:91:CE:56	3F:DF:78:8A:5A:65:E6:A2:9D:8C:15:50:D8:24:49:06:A3:B8:A7:B7:D3:DA:9B:DE:D7:4:8E:41:83:A7:63:C9
C=US, O=GeoTrust Inc., OU=GeoTrust Authentication Services, CN=GeoTrust True Identity CA 2	023A58	A4:C7:79:FC:07:94:BB:BA:A6:E7:14:DE:C3:1D:46:AB:CE:5D:B9:70	FF:1D:35:ED:46:40:63:D6:03:1C:71:E4:14:26:2C:C2:31:0E:8C:54:7A:B7:F7:CF:29:55:C9:E0:34:9E:53:3F
C=US, O=GeoTrust, Inc., CN=GeoTrust ECC EV SSL CA	0F0C3729FDF4955BF865EBC5EEF432FC	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
C=US, O=GeoTrust, Inc., CN=GeoTrust SSL CA	0236D0	78:0A:06:F6:E9:B4:06:1C:A D:0C:65:02:71:06:06:EB:53:5F:1C:26	D4:C4:C9:98:19:F3:A5:F2:C6:26:1C:94:44:C6:2A:8B:26:3B:39:BC:6A:CC:E3:5C:DC:AB:E2:72:D5:03:7F:B2



C=US, O=GeoTrust, Inc., CN=GeoTrust True Credentials CA 3	023A61	3C:24:FD:4E:7F:02:55:D7:E D:A2:3D:96:75:54:97:C6:5 2:A4:D9:60	5D:74:ED:61:D0:B3:11:E9: 81:BB:CF:0F:41:9A:35:FA:9 F:A1:EC:70:FF:1A:EB:74:2 D:73:BC:FE:BA:06:CF:FF
C=US, O=GeoTrust, Inc., CN=RapidSSL CA	0236D1	C0:39:A3:26:9E:E4:B8:E8:2 D:00:C5:3F:A7:97:B5:A1:9 E:83:6F:47	6D:5B:C9:79:46:1C:72:64:E 1:71:00:10:CD:7D:4E:A3:E C:57:FA:11:21:5F:04:FF:A5 :16:AE:61:95:9A:B2:B2
C=US, O=GeoTrust, Inc., OU=Domain Validated SSL, CN=GeoTrust Secure Site Starter DV SSL CA - G1	4DC436F724F684DB8 C79499993F0994E	84:7E:D8:BD:0A:46:F1:0A: 89:B1:3D:C3:A1:1F:95:B3: 22:D3:F1:3C	62:FB:9B:6C:D2:63:3B:92: D9:1D:B2:64:CE:67:8A:9B: 19:C5:75:41:4A:B1:0A:D4: 6D:15:7F:07:BB:A2:6E:FF
C=US, O=GeoTrust, Inc., OU=Domain Validated SSL, CN=Secure Site Starter DV SSL CA - G2	42C7E6E9845223DD1 01F3631D58708AD	99:16:1F:DB:4C:5A:40:88:7 5:7F:42:E0:D1:15:7B:38:1D :5E:E1:71	64:85:36:13:C2:43:63:99:6 0:3D:0D:56:0B:52:F0:4B:B 8:F8:1A:81:74:6E:42:38:98 :83:A4:F5:9A:45:64:D5
C=US, O=GeoTrust, Inc., OU=Domain Validated SSL, CN=Secure Site Starter DV SSL CA - G3	023A85	F0:02:9E:79:4D:51:80:63:4 B:34:AE:E2:9F:29:13:58:23 :2F:AA:04	2F:CC:00:9A:AF:DB:28:E9: 25:64:30:41:0A:6F:A6:E7:6 A:F0:93:01:B1:04:4F:EA:A A:CA:BO:02:15:AA:39:E1
C=US, O=GeoTrust, Inc., OU=For Internal Use Only, CN=RapidSSL Enterprise CA	023A5A	49:EA:7A:73:31:F1:31:2E:5 C:58:B7:C3:07:32:53:FC:46 :16:E4:D3	2A:40:0E:47:8B:9F:56:C1:3 7:62:A4:97:54:14:4B:6B:8C :4A:5A:1D:C8:E7:B3:1E:44: 1D:0D:BD:1A:6A:4B:E4
C=US, O=GeoTrust, Inc., OU=For Internal Use Only, CN=RapidSSL Enterprise CA	023A5B	B5:DA:CA:45:79:09:34:37: CE:0F:DD:C6:33:D2:DD:B1: ED:0E:7C:72	87:AA:71:AF:03:2E:36:BD: 69:DA:F4:01:4F:CA:D8:F2: 73:3A:A0:0D:EA:B9:59:33: 5A:E3:86:6E:4B:6D:3A:1D
C=US, O=Symantec Corporation, CN=Symantec SAS Code Signing CA	023A72	49:7D:69:1C:07:70:8A:FD: F2:BA:1B:05:99:0B:FF:89:5 0:4F:BC:DE	27:9A:05:5E:2C:41:A9:10:5 F:DF:D2:63:43:22:9D:0D:3 8:12:58:72:45:5C:43:34:4D :DE:BC:AE:5A:0B:F7:36
C=US, O=Symantec Corporation, CN=Symantec SAS EV Code Signing CA	5D74EC40C72FA11E6 B91C2E5BAC472FF	8E:F6:55:31:C8:88:7C:73:9 E:2B:BD:51:8A:37:FA:C2:C D:69:0D:53	E8:65:F5:83:A9:28:CC:B6: A7:28:6B:94:E7:92:0E:E1:F 4:99:8C:03:0B:43:86:89:E9 :58:3B:CC:D6:AC:52:61
C=US, O=Symantec Corporation, CN=Symantec SHA1 SAS Code Signing CA	023A84	2B:35:08:C4:C2:EE:D9:32: F2:D8:29:22:9F:E4:05:0F:A 4:AF:12:1E	F8:2C:F9:00:3A:28:69:3F:4 3:0C:7E:93:95:81:09:7B:A0 :97:C9:3A:EE:51:0A:10:5D: 78:22:32:4F:36:4C:9A
C=US, O=Symantec Corporation, CN=Symantec Time Stamping Services CA - G2	023A64	44:D7:BC:27:88:29:17:14:7 2:CA:B5:41:9C:4A:BD:F1:A C:60:EA:C9	83:C1:EA:9E:9E:FC:A2:83: B8:40:E1:67:F9:EA:79:C4:E 3:2A:CD:33:83:4F:59:D1:3 8:FC:DA:B9:D8:80:6B:20
C=US, O=Volusion, Inc., OU=Domain Validated SSL, CN=Volusion, Inc. DV SSL CA	023A5C	AF:83:5B:6C:3F:58:DF:1F: CF:E5:3C:DC:57:51:53:2C: F0:F0:78:2D	8F:DA:7A:88:13:54:6F:9A:7 C:B0:65:CD:32:D3:65:0D:5 B:56:A2:B7:F9:42:B9:49:9A :EB:42:A8:6A:3E:9D:56
C=US, O=Volusion, Inc., OU=Domain Validated SSL, CN=Volusion, Inc. DV SSL CA - G2	023A7A	2B:1E:D6:E9:4F:6C:88:F4:A 7:AF:7C:A9:5F:FC:EF:30:A 2:B5:0D:50	6F:F6:F6:3F:6A:0D:3D:63:4 4:6C:DA:A5:23:D2:62:73:B 1:26:C0:2F:92:2E:05:D7:3C :47:48:EB:89:B8:63:93
C=US, O=Volusion, Inc., OU=Domain Validated SSL, CN=Volusion, Inc. DV SSL CA - G3	6525B603299E50D5F B1D92120F7E0622	EF:20:DE:67:87:91:5C:1E:7 4:69:2E:5C:8A:52:6F:70:37 :EA:54:60	80:D9:ED:B4:5B:7F:59:2C: D3:02:54:E5:5B:C3:16:BB: F4:4E:47:DF:C0:C0:04:A3: 83:28:1C:03:F3:45:BA:39
C=US, O=Volusion, Inc., OU=Domain Validated SSL, CN=Volusion, Inc. DV SSL CA - G4	023A87	C4:E3:1F:D9:A1:30:9C:0C: F8:C9:27:4D:2A:32:26:CB: 5C:6B:D2:6B	ED:67:93:70:83:B0:73:9F:3 0:23:96:F9:74:AF:B4:1B:FB :A6:48:47:39:67:78:0B:2C: 59:B8:8A:C4:12:1A:D4



C=US, O=Volusion, Inc., OU=Domain Validated SSL, CN=Volusion, Inc. DV SSL CA - G5	OCBEE62D6194EB94B579926557FB3011	A1:32:4C:43:09:CB:02:02:23:A0:06:C1:E0:78:F8:10:0C:68:BE:7F	9F:E3:06:E6:63:E4:59:64:46:44:F6:0A:71:53:A2:21:43:6F:B9:70:1A:0E:BD:91:24:EE:F8:15:9D:15:CB:43
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VERISIGN

**Assertion by Management of VeriSign, Inc. Regarding Its Controls
Over DigiCert Certification Authority Operations Hosted in New Castle, Delaware
During the Period November 1, 2017 to October 31, 2018**

VeriSign, Inc. ("Verisign"), an independent service organization (sub-service provider), provides datacenter hosting services to DigiCert, Inc. ("Digicert") for its Symantec, GeoTrust and Thawte Certification Authority operations ("CAs") hosted in New Castle, Delaware.

The management of Verisign is responsible for establishing and maintaining effective controls over its datacenter hosting services for the Symantec, GeoTrust and Thawte CAs hosted in New Castle, Delaware including CA environmental controls (limited to physical and environmental security), in accordance with applicable versions of the DigiCert Certificate Policy and Symantec, GeoTrust, and Thawte Certification Practice Statements. 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 Verisign's datacenter hosting services for the Symantec, GeoTrust and Thawte CAs hosted in New Castle, Delaware. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

Management has assessed the controls over its datacenter hosting services for the Symantec, GeoTrust and Thawte CA operations. Based on that assessment, in Verisign management's opinion, in providing its datacenter hosting services in New Castle, Delaware during the period November 1, 2017 to October 31, 2018, Verisign has maintained effective controls to provide reasonable assurance that physical access to CA systems is restricted to authorized individuals based on the WebTrust Principles and Criteria for Certification Authorities v2.1, including the following:

CA Environmental Controls

- Physical and Environmental Security

VeriSign, Inc.

Pool, Dave Digitally signed by Pool, Dave
Date: 2019.01.29 07:52:07
-08'00'

Joseph David Pool
Senior Vice President, Technology Services

DATE