



Tel: 314-889-1100

Fax: 314-889-1101

[www.bdo.com](http://www.bdo.com)

101 S Hanley Rd, #800

St. Louis, MO 63105

## REPORT OF THE INDEPENDENT ACCOUNTANT

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

We have examined DigiCert management's [assertion](#) that for its Symantec 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 CAs as enumerated in [Attachment B](#), DigiCert has:

- disclosed its extended validation SSL ("EV SSL") certificate lifecycle management business practices in the applicable versions of its DigiCert Certificate Policy for Symantec Trust Network (STN) and DigiCert Certification Practices Statement for Symantec Trust Network (STN) enumerated in [Attachment A](#), including its commitment to provide EV SSL certificates in conformity with the CA/Browser Forum Requirements on its [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

based on the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL v1.6.2](#). DigiCert's management is responsible for its assertion. Our responsibility is to express an opinion on management's assertion based on our examination.

The relative effectiveness and significance of specific controls at DigiCert 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 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 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.



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

This report does not include any representation as to the quality of DigiCert's services other than its Symantec 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 services for any customer's intended purpose.

DigiCert'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 29, 2019



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

Policy Name	Version	Date
<a href="#">DigiCert Certification Practices Statement for Symantec Trust Network (STN)</a>	3.9	September 11, 2018
Symantec Trust Network (STN) Certification Practice Statement	3.8.28	September 8, 2017
<a href="#">DigiCert Certificate Policy for Symantec Trust Network (STN)</a>	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=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 2007 VeriSign, Inc. - For authorized use only, CN=VeriSign Class 3 Public Primary Certification Authority - G4	2F80FE238C0E220F486712289187ACB3	22:D5:D8:DF:8F:02:31:D1:8D:F7:9D:B7:CF:8A:2D:64:C9:3F:6C:3A	69:DD:D7:EA:90:BB:57:C9:3E:13:5D:C8:5E:A6:FC:D5:48:0B:60:32:39:BD:C4:54:FC:75:8B:2A:26:CF:7F:79
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 Public Primary Certification Authority - G6	65637185D36F45C68F7F31F909879282	26:A1:6C:23:5A:24:72:22:9B:23:62:80:25:BC:80:97:C8:85:24:A1	B3:23:96:74:64:53:44:2F:35:3E:61:62:92:BB:20:BB:AA:5D:23:B5:46:45:0F:DB:9C:54:B8:38:61:67:D5:29
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 2008 VeriSign, Inc. - For authorized use only, CN=VeriSign Universal Root Certification Authority	401AC46421B31321030EBBE4121AC51D	36:79:CA:35:66:87:72:30:4D:30:A5:FB:87:3B:0F:A7:7B:B7:0D:54	23:99:56:11:27:A5:71:25:DE:8C:EF:EA:61:0D:DF:2F:A0:78:B5:C8:06:7F:4E:82:82:90:BF:B8:60:E8:4B:3C
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 2006 VeriSign, Inc. - For authorized use only, CN=VeriSign Class 3 Public Primary Certification Authority - G5	18DAD19E267DE8BB4A2158CDCC6B3B4A	4E:B6:D5:78:49:9B:1C:CF:5F:58:1E:AD:56:BE:3D:9B:67:44:A5:E5	9A:CF:AB:7E:43:C8:D8:80:D0:6B:26:2A:94:DE:EE:E4:B4:65:99:89:C3:D0:CA:F1:9B:AF:64:05:E4:1A:B7:DF
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 Public Primary Certification Authority - G4	4C79B59A289C763164F58944D09102DE	58:D5:2D:B9:33:01:A4:FD:29:1A:8C:96:45:A0:8F:EE:7F:52:92:82	53:DF:DF:A4:E2:97:FC:FE:07:59:4E:8C:62:D5:B8:AB:06:B3:2C:75:49:F3:8A:16:30:94:FD:64:29:D5:DA:43
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Web PKI ECC Root - G1	0E23CC37AC7466480F6B1A4B01831698	65:91:04:DA:A4:04:93:26:21:5A:5D:26:31:52:70:D9:AA:BD:16:1D	92:BB:72:F1:5E:B7:5D:E4:67:C8:4B:43:81:81:03:4B:DA:E9:A0:16:EC:26:43:4B:EE:3C:9B:BA:D8:CD:8A:F0
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Web PKI RSA Root - G1	2D9AD0E39DBD2DAE835F446FBB64FD28	77:08:8D:6A:EF:B6:19:1D:E4:1F:68:85:93:9A:AE:F9:EC:6C:73:1C	F6:BB:5B:79:85:A8:73:65:94:C1:46:79:FA:31:60:38:14:50:2A:AE:B5:F4:28:2A:69:98:5D:C8:4A:45:07:77

Class 3 CA	Serial Number	SHA1 Thumbprint	SHA2 Thumbprint
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 EV SSL CA - G2	366585077A8867AB58F4A094F8103733	E4:99:59:A4:B3:36:AC:BD:2D:AC:75:9B:B5:21:B9:46:03:3E:82:3A	6C:66:B7:6E:68:D6:C7:9F:AF:E5:C9:4E:9B:7D:0C:F7:53:C7:15:CC:85:38:7E:11:32:3B:79:35:F8:61:C1:87
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 EV SSL CA - G3	7EE14A6F6FEFF2D37F3FAD654D3ADAB4	E3:FC:0A:D8:4F:2F:5A:83:ED:6F:86:F5:67:F8:B1:4B:40:DC:BF:12	9E:6B:C5:F9:EC:C5:24:60:E8:ED:C0:2C:64:4D:1B:E1:CB:9F:23:16:F4:1D:AF:3B:61:6A:0B:20:58:29:4B:31
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 EV SSL SGC CA - G2	7A0F41DF1CCD14DCB269298EE22C6A35	37:8F:E7:3E:16:E4:F1:E3:39:49:B7:60:A3:BD:22:51:49:35:90:25	B2:74:5D:0A:9B:71:D9:48:F3:4E:92:1A:F5:9F:34:2A:DF:6E:40:7D:88:BC:51:D3:8A:C5:2B:58:3A:0E:BD:15
C=US, O=Wells Fargo, OU=Symantec Trust Network, CN=Wells Fargo Certificate Authority WS1	50776F58B196C391691EE658A90A9D6B	E8:03:9D:FE:57:13:1F:11:D9:D6:77:F7:CF:7C:F5:B6:E8:9D:98:5D	C2:10:87:41:6B:BF:98:3B:9F:FE:40:F5:D5:6E:E0:FF:D9:4E:B1:E6:66:B0:4A:53:2A:DE:48:2E:C2:01:D6:7C



C=US, O=Oracle Corporation, OU=Symantec Trust Network, CN=Oracle SSL CA - G2	3135BB7E6DE2663AB0E233E6B0E1A5CC	03:86:D9:39:CF:7B:A7:88:55:27:34:18:5B:EA:D0:B1:3E:87:39:14	E4:AF:2F:AE:41:18:7D:58:F2:09:B0:1B:1D:87:53:C2:DC:CB:3F:60:1C:E8:62:73:E3:7E:87:38:C2:A5:CC:B5
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 EV SSL CA - G4	5398D1998C7CBF2310C0F999A0051833	A5:65:3F:4A:81:6E:00:09:7C:CF:0F:CC:65:6A:89:1B:29:BE:19:93	31:86:22:33:62:0E:78:93:30:CC:89:3E:8B:5E:66:70:53:31:B8:B8:8B:0E:D3:0A:44:57:4D:9E:0A:71:C4:F1
C=NZ, O=IBM New Zealand Limited, OU=Symantec Trust Network, CN=IBM New Zealand Limited Public CA	7C8E8FF07BCA9C7A1AB3E26BE3729410	DC:4B:C2:BD:A3:A8:7D:5F:8F:B1:8D:73:CA:BF:BC:4E:F6:96:D6:12	A6:AE:79:59:A1:95:74:9C:A8:87:38:6F:A0:44:82:BD:16:9D:C1:15:7E:31:2D:30:1B:0D:5C:33:3F:AF:2B:02
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 ECC 256 bit EV CA - G2	71223CA522185EAC44CF1770D1A8AA5D	0B:69:D3:71:3F:1B:05:84:F1:C8:89:45:A8:5B:4C:EB:5F:CF:D7:21	66:36:36:C0:3F:D0:B5:B1:71:F2:B0:44:07:C3:DF:76:7B:34:9C:8A:99:0D:87:CE:48:58:98:16:6E:2B:51:20
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 ECC 256 bit Extended Validation CA	4D955D20AF85C49F6925FBAB7C665F89	CA:C5:5F:77:BC:17:B2:47:B0:B9:F5:91:F5:8E:6A:E9:7B:FB:9E:1B	5A:D4:18:3B:54:F0:E2:76:2D:A8:D9:10:E1:E7:E9:F2:AB:2F:1B:CA:CE:6A:63:8F:0D:BB:F3:37:EB:4A:13:9F
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 ECC 256 bit EV CA - G3	4934B1B39646024939700C645B4F1FA0	5C:EB:F0:3C:1A:8F:E1:EA:16:19:57:AC:F9:44:66:D1:A8:8D:74:C4	4B:2C:BA:18:EF:BC:E6:C3:C4:A8:0A:AA:BC:95:23:37:00:0C:D9:34:6B:76:8D:06:24:12:A2:DE:D8:46:ED:C9
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 ECC 384 bit Extended Validation CA	7A760B273C322398D3D4F86B6EBB2D50	38:CC:3D:7E:F8:69:60:4D:B3:9D:34:FD:B7:BD:66:D0:74:42:E9:B6	77:FE:87:6A:1C:47:63:49:F5:EB:9A:E9:BF:53:F7:81:4A:0A:E4:11:56:26:67:C5:8B:7E:D2:78:69:C5:40:91
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)10, CN=VeriSign Class 3 Extended Validation CA - T1	33F5AE11193083147E5B66F31FED1129	09:BA:2F:C6:04:B7:D6:63:24:24:70:83:A4:B8:44:57:9A:B7:F0:7E	D8:05:64:43:3E:D3:5C:85:0E:2A:D5:89:B7:71:3A:4D:AC:01:A0:92:92:86:9B:DB:B8:0E:42:E2:3F:93:36:EA
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)10, CN=VeriSign Class 3 Extended Validation SGC CA - T1	1A4CE18725E5C114B8C98DE0EBA99AD6	C3:70:A4:69:A4:D2:20:BE:C8:5C:89:73:BF:C3:E6:BC:3E:09:46:B5	6E:DA:D2:26:1A:A3:D5:3B:E0:D6:FF:5F:A7:1C:34:A3:4B:25:3B:0C:63:7B:35:BF:3E:96:65:40:F7:8B:63:1B
C=US, O=Oracle Corporation, OU=VeriSign Trust Network, OU=Class 3 MPKI Secure Server CA, CN=Oracle SSL CA	2585C838A4C935E383866B6BA2422FC7	4B:E8:0A:AC:65:90:EE:FE:50:08:A5:A1:DD:33:40:66:54:BA:32:2A	7F:68:89:FF:E8:B0:20:45:E2:CA:C9:9A:2F:2E:E4:F4:C2:EE:D2:49:34:B6:52:18:72:D3:4B:F8:12:67:1C:4B
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 Extended Validation SHA256 SSL CA	09B749FD7F0B4916CA055656CFF6D982	CD:F4:28:A8:90:D3:74:8C:5D:28:ED:1F:4C:69:49:9A:3E:16:F1:33	1F:9B:31:F8:20:92:9E:BF:A0:31:17:EC:2B:77:BA:6B:0F:B6:EC:C9:E0:27:68:2A:55:93:78:DA:31:1C:54:EF
C=US, O=Symantec Corporation, OU=Symantec Trust Network, OU=Extended Validation SSL, CN=Symantec Class 3 Web PKI RSA EV CA - G1	0B6B506566F67A8403D970B7179252CE	BF:63:51:0D:A8:C9:7D:DF:D6:4A:67:68:57:A6:B9:51:22:EE:62:2F	87:B8:50:BD:37:15:C0:10:4B:5E:C9:D5:E8:0B:FE:78:85:0A:AE:41:25:55:9B:BC:DD:E0:85:24:97:0B:5A:FF
C=US, O=thawte, Inc., OU=Extended Validation SSL, CN=thawte Class 3 Web PKI RSA EV CA - G1	1AC917AC8164CCB4BEE32A2140CF4450	55:5F:F7:DF:34:78:09:B7:63:07:48:D5:66:E9:C7:5E:EF:55:C2:1E	B0:DA:8C:71:E8:52:0E:CF:3B:9F:A9:3D:AE:E2:F8:C6:55:C2:1E



			DC:D2:5C:1F:7B:8C:02:47: 9D:BA:52:23:B6:B0:91:84
C=US, O=GeoTrust, Inc., OU=Extended Validation SSL, CN=GeoTrust Class 3 Web PKI ECC EV CA - G1	120B49D5FFBFB59C2 519F83452EED709	35:F1:AF:D5:BD:00:46:B9: 6E:92:C4:1C:BB:1C:8D:04: 55:15:6F:BF	6A:67:55:BA:10:DC:5D:5E: AE:9B:EE:C7:AC:E8:D9:73: DE:53:D3:D1:85:01:74:D4: E0:2E:C2:33:63:E1:2C:C8
C=US, O=Symantec Corporation, OU=Symantec Trust Network, OU=Extended Validation SSL, CN=Symantec Class 3 Web PKI ECC EV CA - G1	20044AAC18E52902F 25460385F9D8BEF	EE:C5:84:18:DB:F2:79:31: DE:5A:F4:1B:B3:17:DF:47: 9D:AF:3C:BE	B1:3F:9D:19:08:2D:8C:D7: CD:1B:EB:0A:B7:C2:45:ED: 25:2F:21:AE:2A:30:16:3E:9 1:B6:E8:BE:2E:0E:96:14
C=US, O=thawte, Inc., OU=Extended Validation SSL, CN=thawte Class 3 Web PKI ECC EV CA - G1	42CA5B1F1CD66F8D5 25FD4D4845D4DD4	52:78:7E:18:6C:FA:34:05:B 3:7F:19:F0:D9:DC:9B:AB:0 8:70:33:99	94:AC:33:E6:72:91:4F:A5:8 B:BE:64:4A:58:29:36:79:C8 :8E:8A:5E:40:BB:08:FF:F1: CD:9C:37:EE:81:FC:94
C=US, O=GeoTrust Inc., OU=Extended Validation SSL, CN=GeoTrust Class 3 Web PKI RSA EV CA - G1	75206CABFB5ED21CD 96AE287809DC45A	B5:43:0C:91:AA:71:FA:08: E5:72:DA:AF:C8:36:14:28: 77:FF:63:C0	E8:41:E1:36:D3:85:3D:E0:C 9:B8:D3:A7:01:66:AD:EE:A 9:76:7B:F0:94:2E:C8:B1:8A :18:06:DB:A8:72:04:C2



## DIGICERT, INC. MANAGEMENT'S ASSERTION

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

DigiCert management has assessed its disclosures of its certificate practices and controls over its EV SSL CA services. Based on that assessment, in providing its EV SSL Certification Authority (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 extended validation SSL ("EV SSL") certificate lifecycle management business practices in the applicable versions of its DigiCert Certificate Policy for Symantec Trust Network (STN) and DigiCert Certification Practices Statement for Symantec Trust Network (STN) enumerated in [Attachment A](#), including its commitment to provide EV SSL certificates in conformity with the CA/Browser Forum Requirements on its [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

based on the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL v1.6.2](#).

DigiCert, Inc.

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
<a href="#">DigiCert Certification Practices Statement for Symantec Trust Network (STN)</a>	3.9	September 11, 2018
Symantec Trust Network (STN) Certification Practice Statement	3.8.28	September 8, 2017
<a href="#">DigiCert Certificate Policy for Symantec Trust Network (STN)</a>	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=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 2007 VeriSign, Inc. - For authorized use only, CN=VeriSign Class 3 Public Primary Certification Authority - G4	2F80FE238C0E220F486712289187ACB3	22:D5:D8:DF:8F:02:31:D1:8D:F7:9D:B7:CF:8A:2D:64:C9:3F:6C:3A	69:DD:D7:EA:90:BB:57:C9:3E:13:5D:C8:5E:A6:FC:D5:48:0B:60:32:39:BD:C4:54:FC:75:8B:2A:26:CF:7F:79
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 Public Primary Certification Authority - G6	65637185D36F45C68F7F31F909879282	26:A1:6C:23:5A:24:72:22:9B:23:62:80:25:BC:80:97:C8:85:24:A1	B3:23:96:74:64:53:44:2F:35:3E:61:62:92:BB:20:BB:AA:5D:23:B5:46:45:0F:DB:9C:54:B8:38:61:67:D5:29
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 2008 VeriSign, Inc. - For authorized use only, CN=VeriSign Universal Root Certification Authority	401AC46421B31321030EBBE4121AC51D	36:79:CA:35:66:87:72:30:4D:30:A5:FB:87:3B:0F:A7:7B:B7:0D:54	23:99:56:11:27:A5:71:25:DE:8C:EF:EA:61:0D:DF:2F:A0:78:B5:C8:06:7F:4E:82:82:90:BF:B8:60:E8:4B:3C
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 2006 VeriSign, Inc. - For authorized use only, CN=VeriSign Class 3 Public Primary Certification Authority - G5	18DAD19E267DE8BB4A2158CDCC6B3B4A	4E:B6:D5:78:49:9B:1C:CF:5F:58:1E:AD:56:BE:3D:9B:67:44:A5:E5	9A:CF:AB:7E:43:C8:D8:80:D0:6B:26:2A:94:DE:EE:E4:B4:65:99:89:C3:D0:CA:F1:9B:AF:64:05:E4:1A:B7:DF
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 Public Primary Certification Authority - G4	4C79B59A289C763164F58944D09102DE	58:D5:2D:B9:33:01:A4:FD:29:1A:8C:96:45:A0:8F:EE:7F:52:92:82	53:DF:DF:A4:E2:97:FC:FE:07:59:4E:8C:62:D5:B8:AB:06:B3:2C:75:49:F3:8A:16:30:94:FD:64:29:D5:DA:43
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Web PKI ECC Root - G1	0E23CC37AC7466480F6B1A4B01831698	65:91:04:DA:A4:04:93:26:21:5A:5D:26:31:52:70:D9:AA:BD:16:1D	92:BB:72:F1:5E:B7:5D:E4:67:C8:4B:43:81:81:03:4B:DA:E9:A0:16:EC:26:43:4B:EE:3C:9B:BA:D8:CD:8A:F0
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Web PKI RSA Root - G1	2D9AD0E39DBD2DAE835F446FBB64FD28	77:08:8D:6A:EF:B6:19:1D:E4:1F:68:85:93:9A:AE:F9:EC:6C:73:1C	F6:BB:5B:79:85:A8:73:65:94:C1:46:79:FA:31:60:38:14:50:2A:AE:B5:F4:28:2A:69:98:5D:C8:4A:45:07:77

Class 3 CA	Serial Number	SHA1 Thumbprint	SHA2 Thumbprint
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 EV SSL CA - G2	366585077A8867AB58F4A094F8103733	E4:99:59:A4:B3:36:AC:BD:2D:AC:75:9B:B5:21:B9:46:03:3E:82:3A	6C:66:B7:6E:68:D6:C7:9F:AF:E5:C9:4E:9B:7D:0C:F7:53:C7:15:CC:85:38:7E:11:32:3B:79:35:F8:61:C1:87
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 EV SSL CA - G3	7EE14A6F6FEFF2D37F3FAD654D3ADAB4	E3:FC:0A:D8:4F:2F:5A:83:ED:6F:86:F5:67:F8:B1:4B:40:DC:BF:12	9E:6B:C5:F9:EC:C5:24:60:E8:ED:C0:2C:64:4D:1B:E1:CB:9F:23:16:F4:1D:AF:3B:61:6A:0B:20:58:29:4B:31
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 EV SSL SGC CA - G2	7A0F41DF1CCD14DCB269298EE22C6A35	37:8F:E7:3E:16:E4:F1:E3:39:49:B7:60:A3:BD:22:51:49:35:90:25	B2:74:5D:0A:9B:71:D9:48:F3:4E:92:1A:F5:9F:34:2A:DF:6E:40:7D:88:BC:51:D3:8A:C5:2B:58:3A:0E:BD:15
C=US, O=Wells Fargo, OU=Symantec Trust Network, CN=Wells Fargo Certificate Authority WS1	50776F58B196C391691EE658A90A9D6B	E8:03:9D:FE:57:13:1F:11:D9:D6:77:F7:CF:7C:F5:B6:E8:9D:98:5D	C2:10:87:41:6B:BF:98:3B:9F:FE:40:F5:D5:6E:E0:FF:D9:4E:B1:E6:66:B0:4A:53:2A:DE:48:2E:C2:01:D6:7C



C=US, O=Oracle Corporation, OU=Symantec Trust Network, CN=Oracle SSL CA - G2	3135BB7E6DE2663AB0E233E6B0E1A5CC	03:86:D9:39:CF:7B:A7:88:55:27:34:18:5B:EA:D0:B1:3E:87:39:14	E4:AF:2F:AE:41:18:7D:58:F2:09:B0:1B:1D:87:53:C2:DC:CB:3F:60:1C:E8:62:73:E3:7E:87:38:C2:A5:CC:B5
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 EV SSL CA - G4	5398D1998C7CBF2310C0F999A0051833	A5:65:3F:4A:81:6E:00:09:7C:CF:0F:CC:65:6A:89:1B:29:BE:19:93	31:86:22:33:62:0E:78:93:30:CC:89:3E:8B:5E:66:70:53:31:B8:B8:8B:0E:D3:0A:44:57:4D:9E:0A:71:C4:F1
C=NZ, O=IBM New Zealand Limited, OU=Symantec Trust Network, CN=IBM New Zealand Limited Public CA	7C8E8FF07BCA9C7A1AB3E26BE3729410	DC:4B:C2:BD:A3:A8:7D:5F:8F:B1:8D:73:CA:BF:BC:4E:F6:96:D6:12	A6:AE:79:59:A1:95:74:9C:A8:87:38:6F:A0:44:82:BD:16:9D:C1:15:7E:31:2D:30:1B:0D:5C:33:3F:AF:2B:02
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 ECC 256 bit EV CA - G2	71223CA522185EAC44CF1770D1A8AA5D	0B:69:D3:71:3F:1B:05:84:F1:C8:89:45:A8:5B:4C:EB:5F:CF:D7:21	66:36:36:C0:3F:D0:B5:B1:71:F2:B0:44:07:C3:DF:76:7B:34:9C:8A:99:0D:87:CE:48:58:98:16:6E:2B:51:20
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 ECC 256 bit Extended Validation CA	4D955D20AF85C49F6925FBAB7C665F89	CA:C5:5F:77:BC:17:B2:47:B0:B9:F5:91:F5:8E:6A:E9:7B:FB:9E:1B	5A:D4:18:3B:54:F0:E2:76:2D:A8:D9:10:E1:E7:E9:F2:AB:2F:1B:CA:CE:6A:63:8F:0D:BB:F3:37:EB:4A:13:9F
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 ECC 256 bit EV CA - G3	4934B1B39646024939700C645B4F1FA0	5C:EB:F0:3C:1A:8F:E1:EA:16:19:57:AC:F9:44:66:D1:A8:8D:74:C4	4B:2C:BA:18:EF:BC:E6:C3:C4:A8:0A:AA:BC:95:23:37:00:0C:D9:34:6B:76:8D:06:24:12:A2:DE:D8:46:ED:C9
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 ECC 384 bit Extended Validation CA	7A760B273C322398D3D4F86B6EBB2D50	38:CC:3D:7E:F8:69:60:4D:B3:9D:34:FD:B7:BD:66:D0:74:42:E9:B6	77:FE:87:6A:1C:47:63:49:F5:EB:9A:E9:BF:53:F7:81:4A:0A:E4:11:56:26:67:C5:8B:7E:D2:78:69:C5:40:91
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)10, CN=VeriSign Class 3 Extended Validation CA - T1	33F5AE11193083147E5B66F31FED1129	09:BA:2F:C6:04:B7:D6:63:24:24:70:83:A4:B8:44:57:9A:B7:F0:7E	D8:05:64:43:3E:D3:5C:85:0E:2A:D5:89:B7:71:3A:4D:AC:01:A0:92:92:86:9B:DB:B8:0E:42:E2:3F:93:36:EA
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)10, CN=VeriSign Class 3 Extended Validation SGC CA - T1	1A4CE18725E5C114B8C98DE0EBA99AD6	C3:70:A4:69:A4:D2:20:BE:C8:5C:89:73:BF:C3:E6:BC:3E:09:46:B5	6E:DA:D2:26:1A:A3:D5:3B:E0:D6:FF:5F:A7:1C:34:A3:4B:25:3B:0C:63:7B:35:BF:3E:96:65:40:F7:8B:63:1B
C=US, O=Oracle Corporation, OU=VeriSign Trust Network, OU=Class 3 MPKI Secure Server CA, CN=Oracle SSL CA	2585C838A4C935E383866B6BA2422FC7	4B:E8:0A:AC:65:90:EE:FE:50:08:A5:A1:DD:33:40:66:54:BA:32:2A	7F:68:89:FF:E8:B0:20:45:E2:CA:C9:9A:2F:2E:E4:F4:C2:EE:D2:49:34:B6:52:18:72:D3:4B:F8:12:67:1C:4B
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 Extended Validation SHA256 SSL CA	09B749FD7F0B4916CA055656CFF6D982	CD:F4:28:A8:90:D3:74:8C:5D:28:ED:1F:4C:69:49:9A:3E:16:F1:33	1F:9B:31:F8:20:92:9E:BF:A0:31:17:EC:2B:77:BA:6B:0F:B6:EC:C9:E0:27:68:2A:55:93:78:DA:31:1C:54:EF
C=US, O=Symantec Corporation, OU=Symantec Trust Network, OU=Extended Validation SSL, CN=Symantec Class 3 Web PKI RSA EV CA - G1	0B6B506566F67A8403D970B7179252CE	BF:63:51:0D:A8:C9:7D:DF:D6:4A:67:68:57:A6:B9:51:22:EE:62:2F	87:B8:50:BD:37:15:C0:10:4B:5E:C9:D5:E8:0B:FE:78:85:0A:AE:41:25:55:9B:BC:DD:E0:85:24:97:0B:5A:FF
C=US, O=thawte, Inc., OU=Extended Validation SSL, CN=thawte Class 3 Web PKI RSA EV CA - G1	1AC917AC8164CCB4BEE32A2140CF4450	55:5F:F7:DF:34:78:09:B7:63:07:48:D5:66:E9:C7:5E:EF:55:C2:1E	B0:DA:8C:71:E8:52:0E:CF:3B:9F:A9:3D:AE:E2:F8:C6:55:C2:1E



			DC:D2:5C:1F:7B:8C:02:47: 9D:BA:52:23:B6:B0:91:84
C=US, O=GeoTrust, Inc., OU=Extended Validation SSL, CN=GeoTrust Class 3 Web PKI ECC EV CA - G1	120B49D5FFBFB59C2 519F83452EED709	35:F1:AF:D5:BD:00:46:B9: 6E:92:C4:1C:BB:1C:8D:04: 55:15:6F:BF	6A:67:55:BA:10:DC:5D:5E: AE:9B:EE:C7:AC:E8:D9:73: DE:53:D3:D1:85:01:74:D4: E0:2E:C2:33:63:E1:2C:C8
C=US, O=Symantec Corporation, OU=Symantec Trust Network, OU=Extended Validation SSL, CN=Symantec Class 3 Web PKI ECC EV CA - G1	20044AAC18E52902F 25460385F9D8BEF	EE:C5:84:18:DB:F2:79:31: DE:5A:F4:1B:B3:17:DF:47: 9D:AF:3C:BE	B1:3F:9D:19:08:2D:8C:D7: CD:1B:EB:0A:B7:C2:45:ED: 25:2F:21:AE:2A:30:16:3E:9 1:B6:E8:BE:2E:0E:96:14
C=US, O=thawte, Inc., OU=Extended Validation SSL, CN=thawte Class 3 Web PKI ECC EV CA - G1	42CA5B1F1CD66F8D5 25FD4D4845D4DD4	52:78:7E:18:6C:FA:34:05:B 3:7F:19:F0:D9:DC:9B:AB:0 8:70:33:99	94:AC:33:E6:72:91:4F:A5:8 B:BE:64:4A:58:29:36:79:C8 :8E:8A:5E:40:BB:08:FF:F1: CD:9C:37:EE:81:FC:94
C=US, O=GeoTrust Inc., OU=Extended Validation SSL, CN=GeoTrust Class 3 Web PKI RSA EV CA - G1	75206CABFB5ED21CD 96AE287809DC45A	B5:43:0C:91:AA:71:FA:08: E5:72:DA:AF:C8:36:14:28: 77:FF:63:C0	E8:41:E1:36:D3:85:3D:E0:C 9:B8:D3:A7:01:66:AD:EE:A 9:76:7B:F0:94:2E:C8:B1:8A :18:06:DB:A8:72:04:C2