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REPORT OF THE INDEPENDENT ACCOUNTANT

To the management of DigiCert, Inc. (“DigiCert”):

We have examined DigiCert management’s [assertion](#) that for its Certification Authority (“CA”) operations at various locations in the United States of America, throughout the period April 1, 2019 to October 31, 2019 for CAs as enumerated in [Attachment B](#), DigiCert has:

- disclosed its code signing certificate lifecycle management business practices in the applicable versions of its DigiCert Certification Practices Statement and DigiCert Certificate Policy enumerated in [Attachment A](#), including its commitment to provide code signing certificates in conformity with the CA/Browser Forum Code Sign Working Group requirements on the DigiCert [website](#), and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
 - code signing subscriber information is properly collected, authenticated, and verified; and
 - the integrity of keys and code signing certificates it manages is established and protected throughout their lifecycles
- maintained effective controls to provide reasonable assurance that its code signing authority and code signing timestamp authority are operated in conformity with the CA/Browser Forum Code Sign Working Group requirements

based on the [WebTrust Principles and Criteria for Certification Authorities - Publicly Trusted Code Signing Certificates v1.0.1](#). 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 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 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 assertion, as referred to above, is fairly stated, in all material respects.

We did not note any instances of possible non-conformance relevant to the CAs enumerated in [Attachment B](#). DigiCert's assertion notes all instances possible non-conformance, addressed by DigiCert, during the engagement period, regardless of the particular CAs enumerated in [Attachment B](#).

This report does not include any representation as to the quality of DigiCert's services other than its CA operations at various locations in the United States of America, nor the suitability of any of DigiCert's services for any customer's intended purpose.

DigiCert's use of the WebTrust Principles and Criteria for Certification Authorities - Publicly Trusted Code Signing Certificates 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

January 29, 2020



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

Policy Name	Version	Date
DigiCert Certification Practices Statement	4.19	July 25, 2019
DigiCert Certification Practices Statement	4.18	April 17, 2019
DigiCert Certification Practices Statement	4.17	March 1, 2019
DigiCert Certificate Policy	4.19	July 25, 2019
DigiCert Certificate Policy	4.18	April 17, 2019
DigiCert Certificate Policy	4.17	March 1, 2019



Attachment B - List of CAs In-Scope

Root CAs			
Common Name	SHA2 Thumbprint	Valid From	Valid To
Baltimore CyberTrust Root	16AF57A9F676B0AB126095AA5EBADEF22AB31119D644AC95CD4B93DBF3F26AEB	5/12/2000	5/12/2025
DigiCert Assured ID Root CA	3E9099B5015E8F486C00BCEA9D111EE721FABA355A89BCF1DF69561E3DC6325C	11/10/2006	11/10/2031
DigiCert Assured ID Root G2	7D05EBB682339F8C9451EE094EEBFEDA7953A114EDB2F44949452FAB7D2FC185	8/1/2013	1/15/2038
DigiCert Assured ID Root G3	7E37CB8B4C47090CAB36551BA6F45DB840680FBA166A952DB100717F43053FC2	8/1/2013	1/15/2038
DigiCert Global Root CA	4348A0E9444C78CB265E058D5E8944B4D84F9662BD26DB257F8934A443C70161	11/10/2006	11/10/2031
DigiCert Global Root G2	CB3CCBB76031E5E0138F8DD39A23F9DE47FFC35E43C1144CEA27D46A5AB1CB5F	8/1/2013	1/15/2038
DigiCert Global Root G3	31AD6648F8104138C738F39EA4320133393E3A18CC02296EF97C2AC9EF6731D0	8/1/2013	1/15/2038
DigiCert High Assurance EV Root CA	7431E5F4C3C1CE4690774F0B61E05440883BA9A01ED00BA6ABD7806ED3B118CF	11/10/2006	11/10/2031
DigiCert Trusted Root G4	552F7BDCF1A7AF9E6CE672017F4F12ABF77240C78E761AC203D1D9D20AC89988	8/1/2013	1/15/2038

Cross-Signed Root CAs			
Common Name	SHA2 Thumbprint	Valid From	Valid To
DigiCert Global Root CA	6DACBB8945137B1DAD4211B0436EFBE06F12ACE36904973B45AE25740823D369	12/7/2016	5/10/2025
DigiCert Global Root G2	AADADD5A879D2EB8C41A89597291292709D42052F5B6399541C694C3B7353CD1	4/3/2018	4/2/2028
DigiCert Global Root G3	53A5E32ACC5714ED20C7778C655D1EE97EC07156074C8B016E2CFC73E9D2712B	11/6/2017	11/5/2022
DigiCert High Assurance EV Root CA	89DAADB41BA698BB378AEE84EAC96121D20F8C2FCA63EC686D9307229AD3EB2E	6/18/2014	6/18/2021
DigiCert High Assurance EV Root CA	BF0ADF6F1FD218CFA27F3884CE2AA6AF2AF5481C6878BFE3A6CA62515898B115	7/25/2012	7/25/2019
DigiCert High Assurance EV Root CA	CBF8FB77660167E6BAACD0DF77CDA397D0117EE2BEEA23B935317F8BB5B5E3B0	12/7/2016	5/10/2025
DigiCert Trusted Root G4	AD8EB32C9DA91DDC855F382745990147DC6F23D9FBB04FC9D476B1EE20FC71D8	7/1/2013	10/22/2023



Subordinate CAs			
Common Name	SHA2 Thumbprint	Valid From	Valid To
Abbott Laboratories Secure Code Signing CA	5F1A82C09CBAE239D4E3F0704C970755547E53E3CF290F9479FE7E98665FEF0F	6/7/2016	6/7/2026
DigiCert Assured ID Code Signing CA-1	3C8B0D5C2ADF2F7090A9B8FF452A4141833DEAA05B5F44E9513DB94BFD1D6BD	2/11/2011	2/10/2026
DigiCert EV Code Signing CA	376377FD1FAF4B8A5B1472647A70B941039A62D74CFE99447E48616F8D63A978	4/18/2012	4/18/2027
DigiCert EV Code Signing CA (SHA2)	C7460B0EDDA1B44C8E2164B234EBECC3962A6A37A936B74A6E7D46682938F084	4/18/2012	4/18/2027
DigiCert High Assurance Code Signing CA-1	007D2C8B15786232BAC0EAA31F60AAE06DC572921BAD0D46C77107D8C2DCA4B3	2/11/2011	2/10/2026
DigiCert SHA2 Assured ID Code Signing CA	51044706BD237B91B89B781337E6D62656C69F0FCFFBE8E43741367948127862	10/22/2013	10/22/2028
DigiCert SHA2 High Assurance Code Signing CA	C51B83A0DE49A201A5FBE947032C04702F8CA7C2D02ADF28B73D42C8ACD1C362	10/22/2013	10/22/2028
Postecom CS5	61A01EA7E8D8016CCEFF92FF13E3DBE082E0779C4CB64BF6F0C316258D6210F5C	4/26/2016	4/26/2023
TERENA Code Signing CA 3	B7C6EBDC2A1B65EF1836DC00250C44E15703121052C1AB6B9D0385A058153AE3	11/18/2014	11/18/2024
TERENA Code Signing CA 3 G3	794C63DB244BA73FB286F15DAB8D0CA5425508381E98844954E63823BB5D7F74	12/9/2014	12/9/2024
WoSign EV Code Signing Pro CA	F6DFDED61FF88EF10B9E6DCFBCE0F1615E05866CEBAFC6D648AEE80132C70347	5/23/2017	5/23/2027
DigiCert SHA2 Assured ID Code Signing	4ADB819C250A2E183313405499D8735299C88F970A5019A27566B27E5818F41B	4/27/2018	4/27/2028
.NET Foundation Projects Code Signing CA	024F162B1D09F6A0868C38B4C8B4257C1EEA6C5A31589416D520CF1624917EB3	4/27/2018	4/27/2028
GeoTrust Code Signing CA - G2	8D7C499D7FE9EEEC05D9EB42F03EFE402807919803E8E6CD6C1F2BF5EF6A7D8F	7/18/2018	7/18/2028
DigiCert SHA1 Assured ID Code Signing CA - G1	82AD46ECDE882413106B1C83EF65DC02DB0C65B3870F6F744B62283DF6FA1D56	7/18/2018	7/18/2028
DigiCert SHA2 Assured ID Code Signing CA - G3	9CDFD82596D1BAC9E44D3E491E2C07D8DCC920419915FD6F361CF70A1E433B10	7/18/2018	7/18/2028
GeoTrust Code Signing CA	78A95ED82180A1C33A9F34EDB75E6774FD4BB73AA2C7C4121453DDB627DB1BAF	7/18/2018	7/18/2028
DigiCert SHA2 Assured ID Code Signing CA - G2	2A9D0D018BB49FDEA14D6C16E9BA0A942F2833B9AADFFBAD1306E301B495CFB7	7/18/2018	7/18/2028
DigiCert SHA1 Code Signing ICA VRSN PCA3-G1	F6A54A76C4A0B529ADC8D457B503A7B3ADF8B0AEAAE8EE72D0FEFD2372E8199B	5/9/2019	8/1/2028
RVBD Certificate Issuer	72563CC98ADA2C5D2126542ACC908154AEB1F9D6F7E83A55C09744C7D7ADDDBA	11/20/2018	11/20/2028
Riverbed Certificate Issuer	BB39497035ED9583D286CDE70FB644EB95806598092B1E8D8F11BC035D7A476A	11/20/2018	11/20/2028



Timestamping CA			
Common Name	SHA2 Thumbprint	Valid From	Valid To
DigiCert SHA2 Assured ID Timestamping CA	CA8D0F4736454AECBEC5DEEC80998C9EBF41D06C728F3C76CCA24151BC62D463	1/7/2016	1/7/2031



DIGICERT, INC. MANAGEMENT’S ASSERTION

DigiCert, Inc. (“DigiCert”) operates the Certification Authority (“CA”) services for its CAs as enumerated in [Attachment B](#) and provides code signing (“CS”) CA services.

DigiCert management has assessed its disclosures of its certificate practices and controls over its CS CA services. Based on that assessment, in providing its CS CA services at various locations in the United States of America, throughout the period April 1, 2019 to October 31, 2019, DigiCert has:

- disclosed its CS certificate lifecycle management business practices in the applicable versions of its DigiCert Certification Practices Statement and DigiCert Certificate Policy as enumerated in [Attachment A](#), including its commitment to provide CS certificates in conformity with the CA/Browser Forum Code Sign Working Group requirements on the DigiCert [website](#), and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
 - code signing subscriber information is properly collected, authenticated, and verified; and
 - the integrity of keys and code signing certificates it manages is established and protected throughout their lifecycles
- maintained effective controls to provide reasonable assurance that its code signing authority and code signing timestamp authority are operated in conformity with CA/Browser Forum Code Sign Working Group requirements

based on the [WebTrust Principles and Criteria for Certification Authorities - Publicly Trusted Code Signing Certificates v1.0.1](#).

DigiCert has disclosed the following matters publicly on Mozilla’s Bugzilla platform:

Mozilla Bug #	Description	Date Opened	Date Closed
Bugzilla 1515564	DigiCert: Underscore character certificates	12/19/18	12/21/18
Bugzilla 1515788	DigiCert: Underscores - CVS Pharmacy	12/20/18	02/11/19
Bugzilla 1516453	DigiCert: Underscores - Discover	12/26/18	02/14/19
Bugzilla 1516545	DigiCert: Underscores - Verizon	12/27/18	03/03/19
Bugzilla 1516561	DigiCert: Underscores - Canadian Imperial Bank of Commerce	12/27/18	02/26/19
Bugzilla 1516599	DigiCert: Underscores - Ericsson	12/27/18	05/01/19
Bugzilla 1517617	DigiCert: Underscores - Citi	01/03/19	05/01/19
Bugzilla 1518555	DigiCert: Use of forbidden subjectPublicKeyInfo algorithm	01/08/19	01/15/19
Bugzilla 1519572	DigiCert: Underscores - Intuit	01/11/19	05/01/19



Mozilla Bug #	Description	Date Opened	Date Closed
Bugzilla 1523676	DigiCert: Good OCSP Responses for Revoked Intermediates	01/29/19	04/04/19
Bugzilla 1524875	DigiCert: IP in dnsName	02/03/19	05/17/19
Bugzilla 1526154	DigiCert: Missed Underscore Certificate Revocations	02/07/19	04/25/19
Bugzilla 1527423	DigiCert: P-384,ecdsa-with-SHA512 Certificates	02/12/19	07/18/19
Bugzilla 1531817	DigiCert: in-addr.arpa Misissuance	03/01/19	07/01/19
Bugzilla 1533655	DigiCert: Apple: Non-compliant Serial Numbers	03/07/19	07/20/19
Bugzilla 1539296	DigiCert: KPN Outdated Audit	03/26/19	06/29/19
Bugzilla 1548716	DigiCert: Verizon: "Default City" in Subject:localityName	05/02/19	05/20/19
Bugzilla 1548719	DigiCert: Revoked intermediate certificates not in CRL	05/02/19	08/06/19
Bugzilla 1550645	Digicert: CAA Checking Issue	05/09/19	Open as of report date
Bugzilla 1551363	DigiCert: "Some-State" in stateOrProvinceName	05/13/19	09/06/19
Bugzilla 1556906	DigiCert: Apple: Non-compliant Common Name Length	06/04/19	12/24/19
Bugzilla 1556948	DigiCert Validation Scope Incident	06/04/19	11/26/19
Bugzilla 1563573	DigiCert: Failure to disclose Unconstrained Intermediate within 7 Days	07/04/19	Open as of report date
Bugzilla 1566162	DigiCert: Failure to supervise ABB Subordinate CA	07/15/19	09/15/19
Bugzilla 1573937	DigiCert/Verizon: Qualified 2019 Audit Statements	08/14/19	Open as of report date
Bugzilla 1575125	DigiCert: Apple: Unconstrained CAs not included in WTBR report	08/19/19	10/18/19
Bugzilla 1576013	DigiCert: JOI Issue	08/22/19	Open as of report date
Bugzilla 1577014	DigiCert OCSP services returns 1 byte	08/27/19	10/22/19
Bugzilla 1582519	DigiCert: Apple: Precertificates without corresponding certificates return OCSP value of "unknown"	09/19/19	10/05/19
Bugzilla 1586604	DigiCert: TERENA: No localityName in EV precert	10/06/19	10/08/19
Bugzilla 1593814	DigiCert: & character in a printableString in ICA	11/04/19	12/24/19
Bugzilla 1595921	DigiCert: Domain validation skipped	11/12/19	Open as of report date
Bugzilla 1596931	DigiCert: Verizon CPS lacks problem reporting instructions	11/15/19	12/03/19



DigiCert, Inc.

A handwritten signature in black ink, appearing to read 'Dan Timpson', is placed on a light gray rectangular background.

Dan Timpson
Chief Technology Officer

January 29, 2020



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

Policy Name	Version	Date
DigiCert Certification Practices Statement	4.19	July 25, 2019
DigiCert Certification Practices Statement	4.18	April 17, 2019
DigiCert Certification Practices Statement	4.17	March 1, 2019
DigiCert Certificate Policy	4.19	July 25, 2019
DigiCert Certificate Policy	4.18	April 17, 2019
DigiCert Certificate Policy	4.17	March 1, 2019



Attachment B - List of CAs In-Scope

Root CAs			
Common Name	SHA2 Thumbprint	Valid From	Valid To
Baltimore CyberTrust Root	16AF57A9F676B0AB126095AA5EBADEF22AB31119D644AC95CD4B93DBF3F26AEB	5/12/2000	5/12/2025
DigiCert Assured ID Root CA	3E9099B5015E8F486C00BCEA9D111EE721FABA355A89BCF1DF69561E3DC6325C	11/10/2006	11/10/2031
DigiCert Assured ID Root G2	7D05EBB682339F8C9451EE094EEBFEDA7953A114EDB2F44949452FAB7D2FC185	8/1/2013	1/15/2038
DigiCert Assured ID Root G3	7E37CB8B4C47090CAB36551BA6F45DB840680FBA166A952DB100717F43053FC2	8/1/2013	1/15/2038
DigiCert Global Root CA	4348A0E9444C78CB265E058D5E8944B4D84F9662BD26DB257F8934A443C70161	11/10/2006	11/10/2031
DigiCert Global Root G2	CB3CCBB76031E5E0138F8DD39A23F9DE47FFC35E43C1144CEA27D46A5AB1CB5F	8/1/2013	1/15/2038
DigiCert Global Root G3	31AD6648F8104138C738F39EA4320133393E3A18CC02296EF97C2AC9EF6731D0	8/1/2013	1/15/2038
DigiCert High Assurance EV Root CA	7431E5F4C3C1CE4690774F0B61E05440883BA9A01ED00BA6ABD7806ED3B118CF	11/10/2006	11/10/2031
DigiCert Trusted Root G4	552F7BDCF1A7AF9E6CE672017F4F12ABF77240C78E761AC203D1D9D20AC89988	8/1/2013	1/15/2038

Cross-Signed Root CAs			
Common Name	SHA2 Thumbprint	Valid From	Valid To
DigiCert Global Root CA	6DACBB8945137B1DAD4211B0436EFBE06F12ACE36904973B45AE25740823D369	12/7/2016	5/10/2025
DigiCert Global Root G2	AADADD5A879D2EB8C41A89597291292709D42052F5B6399541C694C3B7353CD1	4/3/2018	4/2/2028
DigiCert Global Root G3	53A5E32ACC5714ED20C7778C655D1EE97EC07156074C8B016E2CFC73E9D2712B	11/6/2017	11/5/2022
DigiCert High Assurance EV Root CA	89DAADB41BA698BB378AEE84EAC96121D20F8C2FCA63EC686D9307229AD3EB2E	6/18/2014	6/18/2021
DigiCert High Assurance EV Root CA	BF0ADF6F1FD218CFA27F3884CE2AA6AF2AF5481C6878BFE3A6CA62515898B115	7/25/2012	7/25/2019
DigiCert High Assurance EV Root CA	CBF8FB77660167E6BAACD0DF77CDA397D0117EE2BEEA23B935317F8BB5B5E3B0	12/7/2016	5/10/2025
DigiCert Trusted Root G4	AD8EB32C9DA91DDC855F382745990147DC6F23D9FBB04FC9D476B1EE20FC71D8	7/1/2013	10/22/2023



Subordinate CAs			
Common Name	SHA2 Thumbprint	Valid From	Valid To
Abbott Laboratories Secure Code Signing CA	5F1A82C09CBAE239D4E3F0704C970755547E53E3CF290F9479FE7E98665FEF0F	6/7/2016	6/7/2026
DigiCert Assured ID Code Signing CA-1	3C8B0D5C2ADF2F7090A9B8FF452A4141833DEAA05B5F44E9513DB94BFDF1D6BD	2/11/2011	2/10/2026
DigiCert EV Code Signing CA	376377FD1FAF4B8A5B1472647A70B941039A62D74CFE99447E48616F8D63A978	4/18/2012	4/18/2027
DigiCert EV Code Signing CA (SHA2)	C7460B0EDDA1B44C8E2164B234EBECC3962A6A37A936B74A6E7D46682938F084	4/18/2012	4/18/2027
DigiCert High Assurance Code Signing CA-1	007D2C8B15786232BAC0EAA31F60AAE06DC572921BAD0D46C77107D8C2DCA4B3	2/11/2011	2/10/2026
DigiCert SHA2 Assured ID Code Signing CA	51044706BD237B91B89B781337E6D62656C69F0FCFFBE8E43741367948127862	10/22/2013	10/22/2028
DigiCert SHA2 High Assurance Code Signing CA	C51B83A0DE49A201A5FBE947032C04702F8CA7C2D02ADF28B73D42C8ACD1C362	10/22/2013	10/22/2028
Postecom CS5	61A01EA7E8D8016CCEFF92FF13E3DBE082E0779C4CB64BF6F0C316258D6210F5C	4/26/2016	4/26/2023
TERENA Code Signing CA 3	B7C6EBDC2A1B65EF1836DC00250C44E15703121052C1AB6B9D0385A058153AE3	11/18/2014	11/18/2024
TERENA Code Signing CA 3 G3	794C63DB244BA73FB286F15DAB8D0CA5425508381E98844954E63823BB5D7F74	12/9/2014	12/9/2024
WoSign EV Code Signing Pro CA	F6DFDEED61FF88EF10B9E6DCFBCE0F1615E05866CEBAFCD6D48AEE80132C70347	5/23/2017	5/23/2027
DigiCert SHA2 Assured ID Code Signing	4ADB819C250A2E183313405499D8735299C88F970A5019A27566B27E5818F41B	4/27/2018	4/27/2028
.NET Foundation Projects Code Signing CA	024F162B1D09F6A0868C38B4C8B4257C1EEA6C5A31589416D520CF1624917EB3	4/27/2018	4/27/2028
GeoTrust Code Signing CA - G2	8D7C499D7FE9EEEC05D9EB42F03EFE402807919803E8E6CD6C1F2BF5EF6A7D8F	7/18/2018	7/18/2028
DigiCert SHA1 Assured ID Code Signing CA - G1	82AD46ECDE882413106B1C83EF65DC02DB0C65B3870F6F744B62283DF6FA1D56	7/18/2018	7/18/2028
DigiCert SHA2 Assured ID Code Signing CA - G3	9CDFD82596D1BAC9E44D3E491E2C07D8DCC920419915FD6F361CF70A1E433B10	7/18/2018	7/18/2028
GeoTrust Code Signing CA	78A95ED82180A1C33A9F34EDB75E6774FD4BB73AA2C7C4121453DDB627DB1BAF	7/18/2018	7/18/2028
DigiCert SHA2 Assured ID Code Signing CA - G2	2A9D0D018BB49FDEA14D6C16E9BA0A942F2833B9AADFFBAD1306E301B495CFB7	7/18/2018	7/18/2028
DigiCert SHA1 Code Signing ICA VRSN PCA3-G1	F6A54A76C4A0B529ADC8D457B503A7B3ADF8B0AEAAE8EE72D0FEFD2372E8199B	5/9/2019	8/1/2028
RVBD Certificate Issuer	72563CC98ADA2C5D2126542ACC908154AEB1F9D6F7E83A55C09744C7D7ADDDBA	11/20/2018	11/20/2028
Riverbed Certificate Issuer	BB39497035ED9583D286CDE70FB644EB95806598092B1E8D8F11BC035D7A476A	11/20/2018	11/20/2028



Timestamping CA			
Common Name	SHA2 Thumbprint	Valid From	Valid To
DigiCert SHA2 Assured ID Timestamping CA	CA8D0F4736454AECBEC5DEEC80998C9EBF41D06C728F3C76CCA24151BC62D463	1/7/2016	1/7/2031



REPORT OF THE INDEPENDENT ACCOUNTANT

To the management of DigiCert, Inc. (“DigiCert”):

We have examined DigiCert management’s [assertion](#) that for its Symantec, GeoTrust, and Thawte branded Certification Authority (“CA”) operations at various locations in the United States of America, Australia, South Africa, Ireland, and Japan, throughout the period November 1, 2018 to October 31, 2019 for CAs as enumerated in [Attachment B](#), DigiCert has:

- disclosed its code signing certificate lifecycle management business practices in its Certification Practices Statements and DigiCert Certificate Policy for Symantec Trust Network (STN) as enumerated in [Attachment A](#), including its commitment to provide code signing certificates in conformity with the Code Sign Working Group requirements on the DigiCert [website](#), and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
 - code signing subscriber information is properly collected, authenticated, and verified; and
 - the integrity of keys and code signing certificates it manages is established and protected throughout their lifecycles
- maintained effective controls to provide reasonable assurance that its code signing authority and code signing timestamp authority are operated in conformity with the CA/Browser Forum Code Sign Working Group requirements

based on the [WebTrust Principles and Criteria for Certification Authorities - Publicly Trusted Code Signing Certificates v1.0.1](#). 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 judgement, 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.

We did not note any instances of possible non-conformance relevant to the CAs enumerated in [Attachment B](#). DigiCert's assertion notes all instances possible non-conformance, addressed by DigiCert, during the engagement period, regardless of the particular CAs enumerated in [Attachment B](#).

This report does not include any representation as to the quality of DigiCert's services other than its Symantec, GeoTrust, and Thawte branded CA operations at various locations in the United States of America, Australia, South Africa, Ireland, and Japan, nor the suitability of any of DigiCert's services for any customer's intended purpose.

DigiCert's use of the WebTrust Principles and Criteria for Certification Authorities - Publicly Trusted Code Signing Certificates 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

January 29, 2020



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

Policy Name	Version	Date
DigiCert Certification Practices Statement for Symantec Trust Network (STN)	3.13	June 25, 2019
DigiCert Certification Practices Statement for Symantec Trust Network (STN)	3.12	April 18, 2019
DigiCert Certification Practices Statement for Symantec Trust Network (STN)	3.11	March 18, 2019
DigiCert Certification Practices Statement for Symantec Trust Network (STN)	3.10	November 2, 2018
DigiCert Certification Practices Statement for Symantec Trust Network (STN)	3.9	September 11, 2018
DigiCert Certification Practices Statement for GeoTrust and RapidSSL	1.6	June 25, 2019
DigiCert Certification Practices Statement for GeoTrust and RapidSSL	1.5	April 18, 2019
DigiCert Certification Practices Statement for GeoTrust and RapidSSL	1.4	March 18, 2019
DigiCert Certification Practices Statement for GeoTrust and RapidSSL	1.3	November 2, 2018
DigiCert Certification Practices Statement for GeoTrust, RapidSSL, and FreeSSL	1.2	September 11, 2018
DigiCert Certification Practices Statement for Thawte-Branded Certificates	3.7.23	June 25, 2019
DigiCert Certification Practices Statement for Thawte-Branded Certificates	3.7.22	April 18, 2019
DigiCert Certification Practices Statement for Thawte-Branded Certificates	3.7.21	March 18, 2019
DigiCert Certification Practices Statement for Thawte-Branded Certificates	3.7.20	November 2, 2018
DigiCert Certification Practices Statement for Thawte	3.7.19	September 11, 2018
DigiCert Certificate Policy for Symantec Trust Network (STN)	2.12	June 25, 2019
DigiCert Certificate Policy for Symantec Trust Network (STN)	2.11	April 18, 2019



Policy Name	Version	Date
DigiCert Certificate Policy for Symantec Trust Network (STN)	2.10	March 18, 2019
DigiCert Certificate Policy for Symantec Trust Network (STN)	2.9	September 11, 2018



Attachment B - List of CAs In-Scope

Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 1999 VeriSign, Inc. - For authorized use only, CN=VeriSign Class 3 Public Primary Certification Authority - G3	EB04CF5EB1F39AFA762F2BB120F296CBA520C1B97DB1589565B81CB9A17B7244	10/1/1999	7/16/2036
C=US, O=GeoTrust Inc., OU=(c) 2008 GeoTrust Inc. - For authorized use only, CN=GeoTrust Primary Certification Authority - G3	B478B812250DF878635C2AA7EC7D155EAA625EE82916E2CD294361886CD1FBD4	4/2/2008	12/1/2037
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 2008 VeriSign, Inc. - For authorized use only, CN=VeriSign Universal Root Certification Authority	2399561127A57125DE8CEFEA610DDF2FA078B5C8067F4E828290BFB860E84B3C	4/2/2008	12/1/2037
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	9ACFAB7E43C8D880D06B262A94DEEEE4B4659989C3D0CAF19BAF6405E41AB7DF	11/8/2006	7/16/2036
C=US, O=thawte, Inc., OU=Certification Services Division, OU=(c) 2006 thawte, Inc. - For authorized use only, CN=thawte Primary Root CA	8D722F81A9C113C0791DF136A2966DB26C950A971DB46B4199F4EA54B78BF9F	11/17/2006	7/16/2036
C=US, O=GeoTrust Inc., CN=GeoTrust Global CA	FF856A2D251DCD88D36656F450126798CFABAAD40799C722DE4D2B5DB36A73A	5/21/2002	5/21/2022
C=US, O=thawte, Inc., OU=Certification Services Division, OU=(c) 2008 thawte, Inc. - For authorized use only, CN=thawte Primary Root CA - G3	4B03F45807AD70F21BFC2CAE71C9FDE4604C064CF5FFB686BAE5DBAAD7FDD34C	4/2/2008	12/1/2037



Class 3 CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=Terms of use at https://www.verisign.com/rpa (c)10, CN=VeriSign Class 3 Code Signing 2010 CA	F45C03B5683E3EA8F0ABC5F14E749FBBF632766596D9074B000D68B76226F7A3	2/8/2010	2/7/2020
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=Terms of use at https://www.verisign.com/rpa (c)10, CN=VeriSign Class 3 Code Signing 2010 CA	D0F90BBF6EE8629E4A31CFDBAA2202E324AF2F5F456967DD83CA5B3684C34297	2/8/2010	2/8/2020
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 SHA256 Code Signing CA	582DC1D97A790EF04FE2567B1EC88C26B03BF6E99937CAE6A0B50397AD20BBF8	12/10/2013	12/9/2023
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 Extended Validation Code Signing CA - G2	F726C8891336B1B97CBC86F596F1267FC180152122573E76D5145A7C64E2CFF7	3/4/2014	3/3/2024
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 SHA256 Code Signing CA - G2	2042E38FC57388F1DB3222C7AB5BE11C6EDB7E454BF45487AE44FF2D6A2B7645	7/22/2014	7/21/2024
C=US, O=Symantec Corporation, CN=Symantec SAS Code Signing CA	279A055E2C41A9105FDFD26343229D0D38125872455C43344DDEBCAE5A0BF736	3/6/2014	5/20/2022
C=US, O=Symantec Corporation, CN=Symantec SAS EV Code Signing CA	E865F583A928CCB6A7286B94E7920EE1F4998C030B438689E9583BCCD6AC5261	1/12/2016	1/11/2026



Class 3 CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C=US, O=Symantec Corporation, CN=Symantec SHA1 SAS Code Signing CA	F82CF9003A28693F430C7E939581097BA097C93AEE510A105D7822324F364C9A	10/8/2015	5/20/2022
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 Extended Validation Code Signing CA - G3	C267DC115D57DD0226279B346DF1953DD2C07A85CB48A0D899FD5724F5AF681F	5/12/2016	5/11/2026
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 Extended Validation Code Signing CA	169DAF83C0870AB8927C99D3FC0774DDF34FBA28B02B881DCD0B633B6D71B2BA	6/7/2012	6/6/2022
C=US, O=Thawte, Inc., CN=Thawte Code Signing CA - G2	AF840CA2B9DFB776BF81AA94C401BC440C52E5C590C43607A13D6680D83E3349	2/8/2010	2/7/2020
C=US, O=thawte, Inc., CN=thawte EV Code Signing CA	F376F6E5BF660F6BEDB768DCD1303EADD4A96F2ED7A97717E878FAE6BB5959FA	3/1/2016	2/28/2026
C=US, O=thawte, Inc., CN=thawte SHA256 Code Signing CA	C4D18E0A58E4EFFD17ED77C840B613EF15F551076EA92C2B77F6609A6C2557C7	12/10/2013	12/9/2023
C=US, O=thawte, Inc., CN=thawte SHA256 Code Signing CA - G2	F76F0D8AD330ACFD4C5BD05A58A1CF155DE00BE2C98F4E7899BE24E80A2ABCBF	7/22/2014	7/21/2024



Class 3 CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=Terms of use at https://www.verisign.com/rpa (c)10, CN=VeriSign Class 3 Code Signing 2010 CA	0CFC19DB681B014BFE3F23CB3A78B67208B4E3D8D7B6A7B1807F7CD6ECB2A54E	2/8/2010	2/7/2020
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=Terms of use at https://www.verisign.com/rpa (c)10, CN=VeriSign Class 3 Code Signing 2010 CA	193A2A64C82C920CBC2A3A2D032AA1F8E5F7F3483058710F0B6A0FBEB697B69	2/8/2010	2/7/2020

Timestamping CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C=US, O=GeoTrust Inc, OU=GeoTrust TimeStamping CA, CN=GeoTrust TimeStamping CA I	D36027A85FE1EDCBA4F1BA92C3C8B37864E862D2B4A02B8FF643F582609F6A08	3/7/2006	3/7/2021
C=US, O=GeoTrust Inc, OU=GeoTrust TimeStamping CA, CN=GeoTrust TimeStamping CA I	321DF681FB13682259A572BE65FDDB8E6C9A2CB21F945683D3B704517BC192E4	3/7/2006	3/7/2021
C=US, O=Symantec Corporation, CN=Symantec Time Stamping Services CA - G2	83C1EA9E9EFC283B840E167F9EA79C4E32ACD33834F59D138FCDAB9D8806B20	10/18/2012	5/20/2022
C=US, O=Symantec Corporation, CN=Symantec Time Stamping Services CA - G2	0625FEE1A80D7B897A9712249C2F55FF391D6661DBD8B87F9BE6F252D88CED95	12/21/2012	12/30/2020
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec SHA256 TimeStamping CA	F3516DDCC8AFC808788BD8B0E840BDA2B5E23C6244252CA3000BB6C87170402A	1/12/2016	1/11/2031



DIGICERT, INC. MANAGEMENT’S ASSERTION

DigiCert, Inc. (“DigiCert”) operates the Symantec, GeoTrust, and Thawte branded Certification Authority (“CA”) services for its CAs as enumerated in [Attachment B](#) and provides code signing CA services.

DigiCert management has assessed its disclosures of its certificate practices and controls over its code signing CA services. Based on that assessment, in providing its code signing CA services at various locations in the United States of America, Australia, South Africa, Ireland, and Japan, throughout the period November 1, 2018 to October 31, 2019, DigiCert has:

- disclosed its code signing certificate lifecycle management business practices in its Certification Practices Statements and DigiCert Certificate Policy for Symantec Trust Network (STN) as enumerated in [Attachment A](#), including its commitment to provide code signing certificates in conformity with the CA/Browser Forum Code Sign Working Group requirements on the DigiCert [website](#), and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
 - code signing subscriber information is properly collected, authenticated, and verified; and
 - the integrity of keys and code signing certificates it manages is established and protected throughout their lifecycles
- maintained effective controls to provide reasonable assurance that its code signing authority and code signing timestamp authority are operated in conformity with Code Sign Working Group requirements

based on the [WebTrust Principles and Criteria for Certification Authorities - Publicly Trusted Code Signing Certificates v1.0.1](#).

DigiCert has disclosed the following matters publicly on Mozilla’s Bugzilla platform:

Mozilla Bug #	Description	Date Opened	Date Closed
Bugzilla 1515564	DigiCert: Underscore character certificates	12/19/18	12/21/18
Bugzilla 1515788	DigiCert: Underscores - CVS Pharmacy	12/20/18	02/11/19
Bugzilla 1516453	DigiCert: Underscores - Discover	12/26/18	02/14/19
Bugzilla 1516545	DigiCert: Underscores - Verizon	12/27/18	03/03/19
Bugzilla 1516561	DigiCert: Underscores - Canadian Imperial Bank of Commerce	12/27/18	02/26/19
Bugzilla 1516599	DigiCert: Underscores - Ericsson	12/27/18	05/01/19
Bugzilla 1517617	DigiCert: Underscores - Citi	01/03/19	05/01/19
Bugzilla 1518555	DigiCert: Use of forbidden subjectPublicKeyInfo algorithm	01/08/19	01/15/19



Mozilla Bug #	Description	Date Opened	Date Closed
Bugzilla 1519572	DigiCert: Underscores - Intuit	01/11/19	05/01/19
Bugzilla 1523676	DigiCert: Good OCSP Responses for Revoked Intermediates	01/29/19	04/04/19
Bugzilla 1524875	DigiCert: IP in dnsName	02/03/19	05/17/19
Bugzilla 1526154	DigiCert: Missed Underscore Certificate Revocations	02/07/19	04/25/19
Bugzilla 1527423	DigiCert: P-384,ecdsa-with-SHA512 Certificates	02/12/19	07/18/19
Bugzilla 1531817	DigiCert: in-addr.arpa Misissuance	03/01/19	07/01/19
Bugzilla 1533655	DigiCert: Apple: Non-compliant Serial Numbers	03/07/19	07/20/19
Bugzilla 1539296	DigiCert: KPN Outdated Audit	03/26/19	06/29/19
Bugzilla 1548716	DigiCert: Verizon: "Default City" in Subject:localityName	05/02/19	05/20/19
Bugzilla 1548719	DigiCert: Revoked intermediate certificates not in CRL	05/02/19	08/06/19
Bugzilla 1550645	Digicert: CAA Checking Issue	05/09/19	Open as of report date
Bugzilla 1551363	DigiCert: "Some-State" in stateOrProvinceName	05/13/19	09/06/19
Bugzilla 1556906	DigiCert: Apple: Non-compliant Common Name Length	06/04/19	12/24/19
Bugzilla 1556948	DigiCert Validation Scope Incident	06/04/19	11/26/19
Bugzilla 1563573	DigiCert: Failure to disclose Unconstrained Intermediate within 7 Days	07/04/19	Open as of report date
Bugzilla 1566162	DigiCert: Failure to supervise ABB Subordinate CA	07/15/19	09/15/19
Bugzilla 1573937	DigiCert/Verizon: Qualified 2019 Audit Statements	08/14/19	Open as of report date
Bugzilla 1575125	DigiCert: Apple: Unconstrained CAs not included in WTBR report	08/19/19	10/18/19
Bugzilla 1576013	DigiCert: JOI Issue	08/22/19	Open as of report date
Bugzilla 1577014	DigiCert OCSP services returns 1 byte	08/27/19	10/22/19
Bugzilla 1582519	DigiCert: Apple: Precertificates without corresponding certificates return OCSP value of "unknown"	09/19/19	10/05/19
Bugzilla 1586604	DigiCert: TERENA: No localityName in EV precert	10/06/19	10/08/19
Bugzilla 1593814	DigiCert: & character in a printableString in ICA	11/04/19	12/24/19
Bugzilla 1595921	DigiCert: Domain validation skipped	11/12/19	Open as of report date



Mozilla Bug #	Description	Date Opened	Date Closed
Bugzilla 1596931	DigiCert: Verizon CPS lacks problem reporting instructions	11/15/19	12/03/19

DigiCert, Inc.

A handwritten signature in black ink, appearing to read 'Dan Timpson', on a light gray background.

Dan Timpson
Chief Technology Officer

January 29, 2020



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

Policy Name	Version	Date
DigiCert Certification Practices Statement for Symantec Trust Network (STN)	3.13	June 25, 2019
DigiCert Certification Practices Statement for Symantec Trust Network (STN)	3.12	April 18, 2019
DigiCert Certification Practices Statement for Symantec Trust Network (STN)	3.11	March 18, 2019
DigiCert Certification Practices Statement for Symantec Trust Network (STN)	3.10	November 2, 2018
DigiCert Certification Practices Statement for Symantec Trust Network (STN)	3.9	September 11, 2018
DigiCert Certification Practices Statement for GeoTrust and RapidSSL	1.6	June 25, 2019
DigiCert Certification Practices Statement for GeoTrust and RapidSSL	1.5	April 18, 2019
DigiCert Certification Practices Statement for GeoTrust and RapidSSL	1.4	March 18, 2019
DigiCert Certification Practices Statement for GeoTrust and RapidSSL	1.3	November 2, 2018
DigiCert Certification Practices Statement for GeoTrust, RapidSSL, and FreeSSL	1.2	September 11, 2018
DigiCert Certification Practices Statement for Thawte-Branded Certificates	3.7.23	June 25, 2019
DigiCert Certification Practices Statement for Thawte-Branded Certificates	3.7.22	April 18, 2019
DigiCert Certification Practices Statement for Thawte-Branded Certificates	3.7.21	March 18, 2019
DigiCert Certification Practices Statement for Thawte-Branded Certificates	3.7.20	November 2, 2018
DigiCert Certification Practices Statement for Thawte	3.7.19	September 11, 2018
DigiCert Certificate Policy for Symantec Trust Network (STN)	2.12	June 25, 2019
DigiCert Certificate Policy for Symantec Trust Network (STN)	2.11	April 18, 2019



Policy Name	Version	Date
DigiCert Certificate Policy for Symantec Trust Network (STN)	2.10	March 18, 2019
DigiCert Certificate Policy for Symantec Trust Network (STN)	2.9	September 11, 2018



Attachment B - List of CAs In-Scope

Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 1999 VeriSign, Inc. - For authorized use only, CN=VeriSign Class 3 Public Primary Certification Authority - G3	EB04CF5EB1F39AFA762F2BB120F296CBA520C1B97DB1589565B81CB9A17B7244	10/1/1999	7/16/2036
C=US, O=GeoTrust Inc., OU=(c) 2008 GeoTrust Inc. - For authorized use only, CN=GeoTrust Primary Certification Authority - G3	B478B812250DF878635C2AA7EC7D155EAA625EE82916E2CD294361886CD1FBD4	4/2/2008	12/1/2037
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 2008 VeriSign, Inc. - For authorized use only, CN=VeriSign Universal Root Certification Authority	2399561127A57125DE8CEFEA610DDF2FA078B5C8067F4E828290BFB860E84B3C	4/2/2008	12/1/2037
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	9ACFAB7E43C8D880D06B262A94DEEEE4B4659989C3D0CAF19BAF6405E41AB7DF	11/8/2006	7/16/2036
C=US, O=thawte, Inc., OU=Certification Services Division, OU=(c) 2006 thawte, Inc. - For authorized use only, CN=thawte Primary Root CA	8D722F81A9C113C0791DF136A2966DB26C950A971DB46B4199F4EA54B78BF9F	11/17/2006	7/16/2036
C=US, O=GeoTrust Inc., CN=GeoTrust Global CA	FF856A2D251DCD88D36656F450126798CFABAAD40799C722DE4D2B5DB36A73A	5/21/2002	5/21/2022
C=US, O=thawte, Inc., OU=Certification Services Division, OU=(c) 2008 thawte, Inc. - For authorized use only, CN=thawte Primary Root CA - G3	4B03F45807AD70F21BFC2CAE71C9FDE4604C064CF5FFB686BAE5DBAAD7FDD34C	4/2/2008	12/1/2037



Class 3 CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=Terms of use at https://www.verisign.com/rpa (c)10, CN=VeriSign Class 3 Code Signing 2010 CA	F45C03B5683E3EA8F0ABC5F14E749FBBF632766596D9074B000D68B76226F7A3	2/8/2010	2/7/2020
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=Terms of use at https://www.verisign.com/rpa (c)10, CN=VeriSign Class 3 Code Signing 2010 CA	D0F90BBF6EE8629E4A31CFDBAA2202E324AF2F5F456967DD83CA5B3684C34297	2/8/2010	2/8/2020
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 SHA256 Code Signing CA	582DC1D97A790EF04FE2567B1EC88C26B03BF6E99937CAE6A0B50397AD20BBF8	12/10/2013	12/9/2023
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 Extended Validation Code Signing CA - G2	F726C8891336B1B97CBC86F596F1267FC180152122573E76D5145A7C64E2CFF7	3/4/2014	3/3/2024
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 SHA256 Code Signing CA - G2	2042E38FC57388F1DB3222C7AB5BE11C6EDB7E454BF45487AE44FF2D6A2B7645	7/22/2014	7/21/2024
C=US, O=Symantec Corporation, CN=Symantec SAS Code Signing CA	279A055E2C41A9105FDFD26343229D0D38125872455C43344DDEBCAE5A0BF736	3/6/2014	5/20/2022
C=US, O=Symantec Corporation, CN=Symantec SAS EV Code Signing CA	E865F583A928CCB6A7286B94E7920EE1F4998C030B438689E9583BCCD6AC5261	1/12/2016	1/11/2026



Class 3 CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C=US, O=Symantec Corporation, CN=Symantec SHA1 SAS Code Signing CA	F82CF9003A28693F430C7E939581097BA097C93AEE510A105D7822324F364C9A	10/8/2015	5/20/2022
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 Extended Validation Code Signing CA - G3	C267DC115D57DD0226279B346DF1953DD2C07A85CB48A0D899FD5724F5AF681F	5/12/2016	5/11/2026
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 Extended Validation Code Signing CA	169DAF83C0870AB8927C99D3FC0774DDF34FBA28B02B881DCD0B633B6D71B2BA	6/7/2012	6/6/2022
C=US, O=Thawte, Inc., CN=Thawte Code Signing CA - G2	AF840CA2B9DFB776BF81AA94C401BC440C52E5C590C43607A13D6680D83E3349	2/8/2010	2/7/2020
C=US, O=thawte, Inc., CN=thawte EV Code Signing CA	F376F6E5BF660F6BEDB768DCD1303EADD4A96F2ED7A97717E878FAE6BB5959FA	3/1/2016	2/28/2026
C=US, O=thawte, Inc., CN=thawte SHA256 Code Signing CA	C4D18E0A58E4EFFD17ED77C840B613EF15F551076EA92C2B77F6609A6C2557C7	12/10/2013	12/9/2023
C=US, O=thawte, Inc., CN=thawte SHA256 Code Signing CA - G2	F76F0D8AD330ACFD4C5BD05A58A1CF155DE00BE2C98F4E7899BE24E80A2ABCBF	7/22/2014	7/21/2024



Class 3 CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=Terms of use at https://www.verisign.com/rpa (c)10, CN=VeriSign Class 3 Code Signing 2010 CA	0CFC19DB681B014BFE3F23CB3A78B67208B4E3D8D7B6A7B1807F7CD6ECB2A54E	2/8/2010	2/7/2020
C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=Terms of use at https://www.verisign.com/rpa (c)10, CN=VeriSign Class 3 Code Signing 2010 CA	193A2A64C82C920CBC2A3A2D032AA1F8E5F7F3483058710F0B6A0FBEB697B69	2/8/2010	2/7/2020

Timestamping CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
C=US, O=GeoTrust Inc, OU=GeoTrust TimeStamping CA, CN=GeoTrust TimeStamping CA I	D36027A85FE1EDCBA4F1BA92C3C8B37864E862D2B4A02B8FF643F582609F6A08	3/7/2006	3/7/2021
C=US, O=GeoTrust Inc, OU=GeoTrust TimeStamping CA, CN=GeoTrust TimeStamping CA I	321DF681FB13682259A572BE65FDDB8E6C9A2CB21F945683D3B704517BC192E4	3/7/2006	3/7/2021
C=US, O=Symantec Corporation, CN=Symantec Time Stamping Services CA - G2	83C1EA9E9EFC2A283B840E167F9EA79C4E32ACD33834F59D138FCDAB9D8806B20	10/18/2012	5/20/2022
C=US, O=Symantec Corporation, CN=Symantec Time Stamping Services CA - G2	0625FEE1A80D7B897A9712249C2F55FF391D6661DBD8B87F9BE6F252D88CED95	12/21/2012	12/30/2020
C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec SHA256 TimeStamping CA	F3516DDCC8AFC808788BD8B0E840BDA2B5E23C6244252CA3000BB6C87170402A	1/12/2016	1/11/2031