



REPORT OF THE INDEPENDENT ACCOUNTANT

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

Scope

We have examined DigiCert management’s [assertion](#), that for its Certification Authority (“CA”) operations at California, Utah and Virginia, in the United States of America, and Kawasaki and Sapporo, Japan, throughout the period October 1, 2020 to January 17, 2021 for its CAs 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 (“CPS”) and DigiCert Certificate Policy (“CP”) as enumerated in [Attachment A](#)
- maintained effective controls to provide reasonable assurance that:
 - the applicable versions of its CPS are consistent with the applicable versions of its CP; and
 - DigiCert provides its services in accordance with its CP and CPS
- 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 the [WebTrust Principles and Criteria for Certification Authorities v2.2](#).

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



Certification Authority's Responsibilities

DigiCert's management is responsible for its assertion, including the fairness of its presentation, and the provision of its described services in accordance with the [WebTrust Principles and Criteria for Certification Authorities v2.2.](#)

Independent Accountant's Responsibilities

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.

Relative Effectiveness of Controls

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.

Inherent Limitations

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.

Independent Accountant's Opinion

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 CA operations at California, Utah and Virginia, in the United States of America, and Kawasaki and Sapporo, Japan, nor the suitability of any of DigiCert's services for any customer's intended purpose.



Other Matter

The World Health Organization classified the COVID-19 outbreak as a pandemic in March 2020. Based on the continued increase in exposure globally, the gravity or length of the impact of the COVID-19 outbreak cannot be estimated at this time.

BDS USA, LLP

April 14, 2021



ATTACHMENT A - CERTIFICATION PRACTICE STATEMENT VERSIONS IN-SCOPE

Certificate Policies

Policy Name	Version	Effective Date
DigiCert Certificate Policy	5.4.1	October 8, 2020
DigiCert Certificate Policy	5.4	September 29, 2020

Certification Practice Statements

Policy Name	Version	Effective Date
DigiCert Certification Practices Statement	5.4.1	October 8, 2020
DigiCert Certification Practices Statement	5.4	September 29, 2020



ATTACHMENT B - LIST OF CAs IN SCOPE

Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=GeoTrust Inc./CN=GeoTrust Global CA	FF856A2D251DCD88D36656F450126798CFABAAD40799C722DE4D2B5DB36A73A	2002-05-21	2022-05-21
/C=US/O=GeoTrust Inc./CN=GeoTrust Primary Certification Authority	37D51006C512EAAB626421F1EC8C92013FC5F82AE98EE533EB4619B8DEB4D06C	2006-11-27	2036-07-16
/C=US/O=GeoTrust Inc./OU=(c) 2007 GeoTrust Inc. - For authorized use only/CN=GeoTrust Primary Certification Authority - G2	5EDB7AC43B82A06A8761E8D7BE4979EBF2611F7DD79BF91C1C6B566A219ED766	2007-11-05	2038-01-18
/C=US/O=GeoTrust Inc./OU=(c) 2008 GeoTrust Inc. - For authorized use only/CN=GeoTrust Primary Certification Authority - G3	B478B812250DF878635C2AA7EC7D155EAA625EE82916E2CD294361886CD1FBD4	2008-04-02	2037-12-01
/C=US/O=thawte, Inc./OU=Certification Services Division/OU=(c) 2006 thawte, Inc. - For authorized use only/CN=thawte Primary Root CA	8D722F81A9C113C0791DF136A2966DB26C950A971DB46B4199F4EA54B78BF9F	2006-11-17	2036-07-16
/C=US/O=thawte, Inc./OU=(c) 2007 thawte, Inc. - For authorized use only/CN=thawte Primary Root CA - G2	A4310D50AF18A6447190372A86AF8B951FFB431D837F1E5688B45971ED1557	2007-11-05	2038-01-18
/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	2008-04-02	2037-12-01
/C=US/O=GeoTrust Inc./CN=GeoTrust Universal CA	A0459B9F63B22559F5FA5D4C6DB3F9F72FF19342033578F073BF1D1B46CBB912	2004-03-04	2029-03-04
/C=US/O=GeoTrust Inc./CN=GeoTrust Universal CA 2	A0234F3BC8527CA5628EEC81AD5D69895DA5680DC91D1CB88477F33F878B95B0B	2004-03-04	2029-03-04
/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	1999-10-01	2036-07-16
/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	FAF78B73D93E50021C0C25F4D20B8E08F7F42C272A2792488A1C29372149C5CF	2020-02-14	2036-07-16
/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	69DDD7EA90BB57C93E135DC85EA6FCD5480B603239BDC454FC758B2A26CF7F79	2007-11-05	2038-01-18



Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/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	2006-11-08	2036-07-16
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 2 Public Primary Certification Authority - G4	FE863D0822FE7A2353FA484D5924E875656D3DC9FB58771F6F616F9D571BC592	2011-10-05	2038-01-18
/C=ZA/ST=Western Cape/L=Durbanville/O=Thawte/OU=Thawte Certification/CN=Thawte Timestamping CA	6B6C1E01F590F5AFC5FCF85CD0B9396884048659FC2C6D1170D68B045216C3FD	1997-01-01	2020-12-31

Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=DigiCert TLS ICA GeoTrust Global	516D856D0353BA69FFEB9C1EBA035D780844857006ECE99C051EC19C10C36CD5	2019-01-22	2022-05-20
/C=JP/O=NTT DOCOMO, INC./OU=GeoRoot Certification Authority/CN=DKHS Device CA	123465EEC4092F8CF7ABFE92B8C701AC09EA79A498F1D3F6A02C1714F39A8423	2009-08-12	2022-05-19
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G3	51CF0FFFC3253FC013AF786F95B190109F8C87F34DFD1CEC44C45888789F5355	2014-06-11	2022-05-20
/C=JP/O=NTT DOCOMO, INC./OU=GeoRoot Certification Authority/CN=DKHS Device CA - G2	56CBB0FFC414E88822A50E9F42D46820381D8C2AAEEF56E0566817ED30F27A27	2015-02-10	2022-05-19
/C=US/O=GeoTrust Inc./CN=RapidSSL CA - G2	0DCDC07ECABBBFE38A4606BA663987CDB3BD9817FC67D1DD0CF094AC8CA2787D	2013-06-05	2022-05-20
/C=US/O=GeoTrust, Inc./OU=For Internal Use Only/CN=RapidSSL Enterprise CA	87AA71AF032E36BD69DAF4014FCAD8F2733AA00DEAB959335AE3866E4B6D3A1D	2011-03-08	2021-03-05
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA	E6683E88315CD1CB403C0CEA490F7C4B4C82C91CD485037489AADBAA90839F61	2013-12-11	2022-05-20
/C=US/O=GeoTrust, Inc./OU=Domain Validated SSL/CN=Secure Site Starter DV SSL CA - G3	2FCC009AAFDB28E9256430410A6FA6E76AF09301B1044FEAAACAB00215AA39E1	2015-12-01	2022-05-20
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G2	DED31CBCEC5F99D38E86ECC4D76945DF40F2E547C94E4B0124094875AF6A558	2013-06-04	2022-05-20



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G4	8BC1B9D7DEFCCA1CCD09BACDA88F27762092F1ED4A34AE5E4602BB9CC915C506	2014-08-29	2022-05-20
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA - G3	BC3F03A436240EDBA5F83714F6F677E34B37F9B1F0C08C1E558D981E279E8209	2014-08-29	2022-05-20
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL	2E7E65BB1A013DAF0BDF6938502E43E38217FE00D76CA2F99F7AA9E298F48534	2013-08-06	2022-05-20
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL - G2	78DC9CA5F4C2913F3FB74AC52DFFFC2300DA5A772FC2B84C53A2E74437EDD20	2014-09-08	2022-05-20
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL - G4	BC3F0ADC5FF86A4B374DC691F8FE273B1B87DC73E43824F5FE7F36C3E0008311	2015-12-17	2022-05-20
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G2	90AF11E577C72C940B40EC2F3D50507310091EE6196C9C16B228882264A4D808	2012-08-27	2022-05-20
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G4	211DDF5059229B3577760D623D5148DB92F2D0526EA5303E7EEA0300D9FAFF3F	2014-09-08	2022-05-20
/C=NL/O=Intermediate Certificate/OU=Domain Validated SSL/CN=Intermediate Certificate DV SSL CA	8C2745352289E994B3EA349445B1CF6418E51740E1614F8B5667DAD2990AAEFB	2012-06-01	2022-05-21
/C=NL/O=Intermediate Certificate/OU=Domain Validated SSL/CN=Intermediate Certificate DV SSL CA - G2	D876A081FB3827BA22A4087DF675126FF8A96AAB90364BC61F62CE8E9507AA93	2014-09-08	2022-05-20
/C=DE/O=CertCenter AG/OU=Domain Validated SSL/CN=AlwaysOnSSL CA - G2	7D89AE918B25AFDF91036EEE5C15E58C600F42266866A8DE01C71DBC635CA1C0	2016-02-16	2022-05-20
/C=CH/O=Hostpoint AG/OU=Domain Validated SSL/CN=Hostpoint DV SSL CA - G2	ABD6D053FDBE356D075050181586B0B9C2B8C03298ABCE64CE25C40401DF3B22	2016-01-19	2022-05-20
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G3	074541ECDF88ED992ED5ADE3ECDDEF27A26BA1B44480A195C0A8DADAE2521D8E	2013-11-05	2022-05-20
/C=US/O=GeoTrust, Inc./CN=GeoTrust True Credentials CA 3	5D74ED61D0B311E981BBCF0F419A35FA9FA1EC70FF1AEB742D73BCFEBA06CFFF	2012-08-22	2022-05-21
/C=US/O=GeoTrust Inc./OU=GeoTrust Authentication Services/CN=GeoTrust True Identity CA 2	FF1D35ED464063D6031C71E414262CC2310E8C547AB7F7CF2955C9E0349E533F	2011-01-28	2021-01-25



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=NL/O=Trust Provider B.V./OU=Domain Validated SSL/CN=Trust Provider B.V. DV SSL CA - G2	81051C355EC9F5A89FBA91D1A5BD3F0501EACD80EF93B218003D95CF251A7670	2016-01-21	2022-05-20
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA	8FDA7A8813546F9A7CB065CD32D3650D5B56A2B7F942B9499AEB42A86A3E9D56	2011-04-11	2021-04-08
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA - G2	6FF6F63F6A0D3D63446CDAA523D26273B126C02F922E05D73C4748EB89B86393	2014-09-08	2022-05-20
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA - G4	ED67937083B0739F302396F974AFB41BFBA648473967780B2C59B88AC4121AD4	2015-12-17	2022-05-20
/C=CN/O=TrustAsia Technologies, Inc./OU=Domain Validated SSL/CN=TrustAsia Technologies, Inc. DV SSL CA - G2	C18949E3659FF7DF22B30EC4DA6B4341AF8BEE00E4177A7F86FF59BC46B6BA40	2016-04-05	2022-05-20
/C=US/O=Symantec Corporation/CN=Symantec Time Stamping Services CA - G2	83C1EA9E9EFCA283B840E167F9EA79C4E32ACD33834F59D138FCDAB9D8806B20	2012-10-18	2022-05-20
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=GeoTrust Primary Transition Root	F54F6CED56CF682B570A6CAEC313E9482760DE12E8F928AE30452C4C66AC761A	2017-12-08	2022-12-07
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA GeoTrust PCA	B4983513478FF0C1BD43D31D5B81776276301CFFF58F50CECEA80D1B586C2B03	2021-01-08	2031-01-07
/C=US/O=GeoTrust Inc./CN=GeoTrust Extended Validation SSL CA - G2	C7B57A02F937AE0BE3E21027030592C9D47A70D7013EB3AA94DBC3B7B5AB0662	2012-08-23	2022-08-22
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G5	5B2AE8ABF5E7E563BBC34C97A22554E82393D7ACC09C1765E504AE08C157B5AC	2014-09-09	2024-09-08
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G4	95B09D02122FA8AE6235780F6EA6503E767AC021A0874FE831CE803A50EA8FD7	2013-10-31	2023-10-30
/C=US/O=Symantec Corporation/CN=Symantec SAS EV Code Signing CA	E865F583A928CCB6A7286B94E7920EE1F4998C030B438689E9583BCCD6AC5261	2016-01-12	2026-01-11
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=DigiCert TLS ICA GeoTrust PCA-G3	95D9A8D30F6B1C069C296B3E106BC3CE01EB84AD57860D0F46BF7F15D053B1C0	2019-01-17	2029-01-16
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA GeoTrust PCA-G3 2021	A6D481BFF312C26FD7EF617F43F40E18329C18455F99BC6DA267CB2A79AA4F91	2021-01-12	2031-01-11



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=GeoTrust Inc./CN=GeoTrust Extended Validation SHA256 SSL CA	BC9E223CC42275CC034190DF2D0179B55B732D5AC531137A7B522DCFE04A0592	2013-04-09	2023-04-08
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA - G4	5B87E222F20346FA3628816ED6CE71FAABA0857FB8BCBA73776EA1FA56CD0057	2015-06-30	2025-06-29
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL - G5	8C88BA510529B64263CCB21A73D82BA5725A55C1446F2547BCE301FCDC4314DB	2015-12-17	2025-12-16
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA - G2	92EF2F5B553570607DC29C8010E7ABC16283FE355F955A248254290A260A9EBB	2014-06-10	2024-06-09
/C=US/O=GeoTrust, Inc./OU=Domain Validated SSL/CN=Secure Site Starter DV SSL CA - G2	64853613C2436399603D0D560B52F04BB8F81A81746E42389883A4F59A4564D5	2015-12-01	2025-11-30
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL SHA256 CA - G2	3FDF788A5A65E6A29D8C1550D8244906A3B8A7B7D3DA9BDEDD748E4183A763C9	2015-06-30	2025-06-29
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL SHA256 CA	784ACA1063BE4700B3A62F45C2F93B7EEF8BF230FB869610E864FC4B3A23D09F	2014-06-10	2024-06-09
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL - G3	4FD73419046F90868826D581536931D22E54943EBCD059CB7621394D749343C5	2015-06-30	2025-06-29
/C=US/O=GeoTrust, Inc./OU=Domain Validated SSL/CN=GeoTrust Secure Site Starter DV SSL CA - G1	62FB9B6CD2633B92D91DB264CE678A9B19C575414AB10AD46D157F07BBA26EFF	2015-09-01	2025-08-31
/C=US/O=GeoTrust Inc./CN=GeoTrust SHA256 SSL CA	D9E0C64AB27A64D79CCCF42A34EC75A251A7E543353C19E984A70EB2F546CDDF	2013-05-23	2023-05-22
/C=DE/O=CertCenter AG/OU=Domain Validated SSL/CN=AlwaysOnSSL CA - G1	EF4478EB094C48FB9FEACA09736270499CA52EB04E3F8EE4C1B2EDC9960398FD	2016-02-16	2026-02-15
/C=NL/O=Intermediate Certificate/OU=Domain Validated SSL/CN=Intermediate Certificate DV SSL CA - G3	E86BC16CC6491E5F4B9976313842B3D02C99EA263AEB1DC223D898FA87C84845	2015-06-30	2025-06-29
/C=CH/O=Hostpoint AG/OU=Domain Validated SSL/CN=Hostpoint DV SSL CA - G1	9F4E3C42FAFEDA3CF88C05CC4B4AF0C0AF306415C30D3D1EEBEDEBF7D177A982	2016-01-19	2026-01-18
/C=NL/O=Trust Provider B.V./OU=Domain Validated SSL/CN=Trust Provider B.V. DV SSL CA - G1	D6EA1061C28B3DB96FF5BAA140AB5714E6B0B4F5D71ABCCD242A49B9B9F4DC27	2016-01-21	2026-01-20



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA - G3	80D9EDB45B7F592CD30254E55BC316BBF44E47DFC0C004A383281C03F345BA39	2015-06-30	2025-06-29
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA - G5	9FE306E663E459644644F60A7153A221436FB9701A0EBD9124EEF8159D15CB43	2015-12-17	2025-12-16
/C=CN/O=TrustAsia Technologies, Inc./OU=Domain Validated SSL/CN=TrustAsia Technologies, Inc. DV SSL CA - G1	3997C721893B3926D3938A311CA07A261B2AE22E01DC587F181DFF15B98B4EA6	2016-04-05	2026-04-04
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA GeoTrust PCA-G2	544A6F6299756ECADE4F7C34811054181B6A23C0FF83EB0AC1A28CEBFE0DAE3E	2021-01-08	2031-01-07
/C=US/O=GeoTrust, Inc./CN=GeoTrust ECC EV SSL CA	C131499FD86B213DB5DEFAAFD53111C28A2DDAF4BA465C8265A72D6CF739B668	2016-01-07	2026-01-06
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G6	419B0C9AD6B872A8B1BB87341AF63EE92E69B27B996662E733032F1288108DFB	2017-05-01	2027-04-29
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G7	546CAFF9060EEF30F4F3E02255FBF5131E657C1710C9A650020133A818BEC1C8	2017-05-01	2027-04-29
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=DigiCert TLS ICA Thawte PCA	0944A4C4D673AB925F4BB9ECB0738A7A7C5A480D7219F1F287EA0FD259E87F14	2019-01-17	2029-01-16
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=thawte Primary Transition Root	DBA1097710F3C629943C23DC7503AC82B9142825EF049F1C26538DB36B480549	2017-12-08	2022-12-07
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA Thawte PCA 2021	091AB5AB6539A6F55D2363637DA0A3FB976E6DB8E55D95FB4B39E174F2A918FD	2021-01-12	2031-01-11
/C=US/O=thawte, Inc./CN=thawte SSL CA - G2	B7A8AF2A4A43F0A86B15604DE6461209C9CD76894D8B0748BC99D9A797013BB0	2013-10-31	2023-10-30
/C=US/O=thawte, Inc./OU=Domain Validated SSL/CN=thawte DV SSL CA - G2	9F2511A23E70D95FB62798508A676CC38964100936A6E6D3CAE77154C0290F02	2014-06-10	2024-06-09
/C=US/O=thawte, Inc./CN=thawte EV SSL CA - G2	37F6BD9BEE0C74F608DD474B56A72F8183077DFC2662AF79BFE3D4FABC0B1C4	2013-10-31	2023-10-30
/C=US/O=thawte, Inc./CN=thawte EV SSL CA - G3	1A99019F9D412A64454749EDAA8E7DC46673D644DF3CE15CC655735EA0DF86FE	2013-10-31	2023-10-30



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=thawte, Inc./CN=thawte SHA256 Code Signing CA	C4D18E0A58E4EFFD17ED77C840B613EF15F551076EA92C2B77F6609A6C2557C7	2013-12-10	2023-12-09
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA Thawte PCA-G2	D68E4629F757689782DD82C0273CCC1AD0BB1CF929F4088986CE2FE787A425C	2021-01-08	2031-01-07
/C=US/O=thawte, Inc./CN=thawte ECC EV SSL CA	EAD62F42BB369DD43CF6131AC2D8D72E4F9FEE85E69D45DAAFFE326AAC2A46F1	2016-01-07	2026-01-06
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=DigiCert TLS ICA Thawte PCA-G3	56E4F454D982DCDCE611B7B707DB12C533EAC29A25F4A5307E1C065713B0DC8E	2019-01-17	2029-01-16
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=thawte Primary G3 Transition Root	85743AEA6A97C13445E0824C2E1FE502B97ADD124A97EF5120FE07F55812FC33	2017-12-08	2022-12-07
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA Thawte PCA-G3 2021	5163FC5C1AF06A252A4AE98979232F25DA210A2002536F370B429E0400602B37	2021-01-12	2031-01-11
/C=US/O=thawte, Inc./CN=thawte Extended Validation SHA256 SSL CA	7920B8E18D2FC12D81C2FAB90A63B1B52AB329CE7CD1CB7CA094CDF9D600F492	2013-04-09	2023-04-08
/C=US/O=thawte, Inc./OU=Domain Validated SSL/CN=thawte DV SSL SHA256 CA	537C5C8072363E147C84D21D0D2248B6B99A9A8A43311659835EC33926DA2860	2014-06-10	2024-06-09
/C=US/O=thawte, Inc./CN=thawte SHA256 SSL CA	3F3AF9C9CC2C7599EF8F6DD7CA516CFC1797D7D12002254F3BFD0D4D0FE9DE86	2013-05-23	2023-05-22
/C=US/O=thawte, Inc./CN=thawte SHA256 Code Signing CA - G2	F76F0D8AD330ACFD4C5BD05A58A1CF155DE00BE2C98F4E78999BE24E80A2ABCBF	2014-07-22	2024-07-21
/C=US/O=thawte, Inc./CN=thawte EV Code Signing CA	F376F6E5BF660F6BEDB768DCD1303EADD4A96F2ED7A97717E878FAE6BB5959FA	2016-03-01	2026-02-28
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=DigiCert Transition Root G3	0F57B96FA7B31247EC39CB307D38CA2BF3B29F54AFD50A351D18533529517B46	2017-12-08	2022-12-07
/C=US/O=Netflix, Inc./CN=Netflix Public SHA2 RSA CA 2	BD3A6BA80EBBC83A75D62F779F5D6CCD9ABB7AB6A8DFA471B496E81CD6610314	2020-02-14	2030-02-13
/C=US/O=Netflix, Inc./CN=Netflix Public SHA2 RSA CA 3	8CB67E8E76DE03A83B9A4DAAEA595F70850DF42A6E5602444754FC52F4001633	2020-10-21	2030-10-20



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA PCA3-G3	987BEC30935BE68FA82B01A7AD4DB2E6CCB7E869F28D352D0EA4D66EB1FB9334	2021-01-08	2031-01-07
/C=US/O=Oracle Corporation/OU=VeriSign Trust Network/OU=Class 3 MPKI Secure Server CA/CN=Oracle SSL CA	C76F70980598C66A8E327E17B495A2276265C4B9A3575EFA1D550502A823D591	2010-10-12	2020-10-11
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Shared Public Organization CA - SHA1	A829444AD2FB48079A595FBB88C4E658EE2089A5E129B89AAACCE851198FFD7	2013-07-11	2023-07-10
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Admin Intermediate Certificate Authority	6D0BD6E1AC0EC398EE8537906D98F378FC7AB49C1E296AF233374FA5A271DB34	2011-06-07	2021-06-06
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	3B6D701331A8CB809443E42A732BAD675F225B15CC439ACF26A09587C885ECFD	2015-05-12	2025-05-11
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Managed PKI Administrator CA - G4	5D81D0AA3476F48A5A675D6D3E6AB766BDC8AA167A1A94D79DF91B4251082FA4	2015-01-06	2025-01-05
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Registration Authority Intermediate CA	83C935F34C50B7665409404AFE5DFA07ADCB5C7B52B2BEF0AC6E993C00545D76	2011-06-07	2021-06-06
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Organizational CA - G2	DDE4BEBF262C9D8DF5CB54FE4F5995191EAF58ADCB92FE5AED3128AC0D1916C7	2011-03-16	2021-03-15
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	564DBC6A76550FD2D4F4BAC6448A1157B33CBD8E0B3FD76D72107540964A85B5	2013-10-31	2023-10-30
/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	D9BC973F88909696DA10833197944CA58AC4A88847779C9133374267100EEC58	2006-11-08	2021-11-07
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	74EB307A78AC7E8570CC1BAE1C51102A6053C96F3332D703285A743BCBD35D9E	2015-05-12	2025-05-11



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Registration Authority Intermediate CA	5B690E1CD2BC0016E4DB2AABAB503745E41F86B2448F2EC06D29F24999DEBCA2	2011-06-07	2021-06-06
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Organizational CA - G4	E3710F0C667E589DE8E4AEA37E701AFAF3FBB6275762E6FEA3FD6629544279D6	2014-05-06	2024-05-05
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Organizational CA - G2	F5068C4293A26A0E420D02AE4BEF27008377E3E7ECD8E5CF194428162E3C40F4	2011-03-16	2021-03-15
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Admin Intermediate Certificate Authority	062A76E5196E4C6220ACA7D32AA419761101374C11866C3627D5F8A055ECE2CE	2011-06-07	2021-06-06
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Organizational CA - G4	6F6B2D4A309A156C61977FBCCF7D2AC9F59623FFCCEAC3E4EE5A83A18D895275	2014-05-06	2024-05-05
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G3	53A5E32ACC5714ED20C7778C655D1EE97EC07156074C8B016E2CFC73E9D2712B	2017-11-06	2022-11-05
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Transition ECC Root	DB98194E55B936D26E6CB3F460A262EB6CA66337E7BFF17A0BFC083251F63626	2017-11-06	2022-11-05
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA PCA3-G4	B84D72D3742485C461A27CE05EB91408EC0BFAAB5441FEA8A223EE9BB706A68D	2021-01-08	2031-01-07
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA	ADEBF83FD3D3F9546BB77FAAB516DD9337CCF91E1198F74337769EC68E6E826E	2012-12-20	2022-12-19
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit Extended Validation CA	5AD4183B54F0E2762DA8D910E1E7E9F2AB2F1BC4CE6A638F0DBBF337EB4A139F	2012-12-20	2022-12-19
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 384 bit Extended Validation CA	77FE876A1C476349F5EB9AE9BF53F7814A0AE411562667C58B7ED27869C54091	2012-12-20	2022-12-19



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 384 bit SSL CA	14214583E5F49CE2DB88B93CFE3F7D81B678C86AFBCA9240BAA4B9E4CE90BF2C	2012-12-20	2022-12-19
/C=NZ/O=IBM New Zealand Limited/OU=Symantec Trust Network/CN=IBM New Zealand Limited Public CA	A6AE7959A195749CA887386FA04482BD169DC1157E312D301B0D5C333FAF2B02	2015-02-03	2025-02-02
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=DigiCert TLS ICA VRSN PCA-G5	DD6915403ED7C800F7704792C8084C5EE0C7DE4B28F4F1AC09658DBC34EA9071	2019-01-17	2029-01-16
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G2	2D4FAD3455AB61397401ABBB518922F84336B67E02FC8D2DB283825C4AB981BB	2017-11-06	2022-11-05
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Transition RSA Root	0D88900DBB68C6CA5471F653FCACD407EBD7B1519046F9E0B8CED3C274FD11A1	2017-11-06	2022-11-05
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G2	AADADD5A879D2EB8C41A89597291292709D42052F5B6399541C694C3B7353CD1	2018-04-03	2028-04-02
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA PCA-G5 2021	03B2B514B076931079AA09E784150D4FE62CC9B2A071EB601B125292E50576CD	2021-01-12	2031-01-11
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit EV CA - G2	663636C03FD0B5B171F2B04407C3DF767B349C8A990D87CE485898166E2B5120	2015-05-12	2025-05-11
/C=US/O=Oracle Corporation/OU=VeriSign Trust Network/OU=Class 3 MPKI Secure Server CA/CN=Oracle SSL CA	7F6889FFE8B02045E2CAC99A2F2EE4F4C2EED24934B6521872D34BF812671C4B	2010-10-12	2020-10-11
/C=US/O=Oracle Corporation/OU=Symantec Trust Network/CN=Oracle SSL CA - G2	E4AF2FAE41187D58F209B01B1D8753C2DCCB3F601CE86273E37E8738C2A5CCB5	2015-01-06	2025-01-05
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	2E2861289B5CCEDECAE4C31BF262E0FB0C29B6C1530573442731CA65D821E901	2015-05-12	2025-05-11
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 EV SSL CA - G3	9E6BC5F9ECC52460E8EDC02C644D1BE1CB9F2316F41DAF3B616A0B2058294B31	2013-10-31	2023-10-30
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 EV SSL SGC CA - G2	B2745D0A9B71D948F34E921AF59F342ADF6E407D88BC51D38AC52B583A0EBD15	2013-10-31	2023-10-30



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 EV SSL CA - G2	6C66B76E68D6C79FAFE5C94E9B7D0CF753C715CC85387E11323B7935F861C187	2013-10-31	2023-10-30
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa(c)11/CN=Symantec Class 3 Organizational CA - G2	05BDD9A7C6706D39D6DB1A580AAFF67D4673027B6CF01FD15367D8ED84A890F0	2011-03-16	2021-03-15
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/OU=Insattningsgaranti Service CA/CN=Symantec Class 3 Organizational CA - G3	CF6F24FFE48F8408A75CFADF2B65F8A4E4172F3B7C24C41B5B7481D24018197C	2011-06-21	2021-06-20
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	EAE72EB454BF6C3977EBD289E970B2F5282949190093D0D26F98D0F0D6A9CF17	2013-10-31	2023-10-30
/C=US/O=Wells Fargo/OU=Symantec Trust Network/CN=Wells Fargo Certificate Authority WS1	C21087416BBF983B9FFE40F5D56EE0FFD94EB1E666B04A532ADE482EC201D67C	2015-08-25	2025-08-24
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/OU=Domain Validated SSL/CN=Symantec Basic DV SSL CA - G1	526E30DED6BF9D5CE216F50C832402B48AB70D55AEDA918A1873A5883EBDB1B5	2016-06-07	2026-06-06
/C=CN/O=TrustAsia Technologies, Inc./OU=Symantec Trust Network/OU=Domain Validated SSL/CN=TrustAsia DV SSL CA - G5	B41AB845CAB4DB9CB1FE6505765F36A0868ADC5DF419B38979FB6A4FE4131F70	2016-08-11	2026-08-10
/C=CN/O=TrustAsia Technologies, Inc./OU=Symantec Trust Network/OU=Domain Validated SSL/CN=TrustAsia ECC DV SSL CA - G7	AD806A9357B87D1EB1DD85A5A3C092D0204BA447FF4B3714E3F1034F4D3DE8A0	2016-12-13	2026-12-12
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	59F8CB7D7E9E13CB778FF62198EBE05551B515A58BBBA2EF19C33C760C823916	2013-10-31	2023-10-30
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Organizational CA - G4	FD33AEFD33A161FAC0190E41DF9DD50C3339E883C03F49C4A2AB2B8956EF54D4	2014-05-06	2024-05-05
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Extended Validation Code Signing CA - G2	F726C8891336B1B97CBC86F596F1267FC180152122573E76D5145A7C64E2CFF7	2014-03-04	2024-03-03



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 SHA256 Code Signing CA	582DC1D97A790EF04FE2567B1EC88C26B03BF6E99937CAE6A0B50397AD20BBF8	2013-12-10	2023-12-09
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/OU=Insattningsgaranti Service SHA256 CA/CN=Symantec Class 3 Organizational CA - G5	5CCA1F2FF39A4A8924A3606036D8AADE2E23C024EFCAFF3DC2C66759FEF776FB	2014-10-07	2024-10-06
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Extended Validation Code Signing CA	169DAF83C0870AB8927C99D3FC0774DDF34FBA28B02B881DCD0B633B6D71B2BA	2012-06-07	2022-06-06
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 2 Signing ECC Intermediate CA	FD02510CEC145E5266860482DD4C328609C1A788AF3FCB10A09678DE30F46B95	2015-01-22	2030-01-21



DIGICERT, INC. MANAGEMENT'S ASSERTION

DigiCert, Inc. ("DigiCert") operates the Certification Authority ("CA") services for its CAs 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 effective controls over its CA operations, including its CA business practices disclosure on its [repository](#), 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 CA 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 California, Utah and Virginia, in the United States of America, and Kawasaki and Sapporo, Japan, throughout the period October 1, 2020 to January 17, 2021, 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 ("CPS") and DigiCert Certificate Policy ("CP") as enumerated in [Attachment A](#)
- maintained effective controls to provide reasonable assurance that:
 - the CPS is consistent with its CP; and
 - DigiCert provides its services in accordance with its CP and CPS
- 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 v2.2](#), including the following:

CA Business Practices Disclosure

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

CA Business Practices Management

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



Subscriber Key Lifecycle Management Controls

- CA-Provided Subscriber Key Generation Services
- CA-Provided Subscriber Key Storage and Recovery Services
- Integrated Circuit Card (ICC) Lifecycle Management
- Requirements for Subscriber Key Management

Certificate Lifecycle Management Controls

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

Subordinate CA Certificate and Cross Certificate Lifecycle Management Controls

- Subordinate CA Certificate and Cross Certificate Lifecycle Management


DigiCert has disclosed the list of Mozilla Bugzilla incidents (“bugs”) below. These bugs are not directly impactful to the CAs included in the in-scope listing in [Attachment B](#) but have been included for transparency.

Bug ID	Summary	Opened	Closed	Resolution
1649951	DigiCert: Incorrect OCSP Delegated Responder Certificate	7/1/20	3/11/21	FIXED
1651461	DigiCert: Failure to revoke within 7 days: OCSP EKU issue	7/8/20	3/11/21	FIXED
1684442	DigiCert: SHA-1 intermediate issued after 2016-01-01	12/29/20	3/6/21	FIXED
1675684	DigiCert: Private Keys Disclosed by Customers as Part of CSR	11/5/20	12/15/20	FIXED
1654967	DigiCert: Malformed ICA	7/23/20	12/15/20	FIXED
1676003	DigiCert: Entity not verified in organizationalUnitName	11/8/20	11/29/20	FIXED
1639801	Digicert: Failure to revoke key-compromised certificates within 24 hours	5/21/20	11/19/20	FIXED
1576013	DigiCert: JOI Issue	8/22/19	11/13/20	FIXED
1649277	DigiCert: Failure to provide a preliminary report within 24 hours.	6/29/20	10/31/20	FIXED
1662346	DigiCert: OCSP responder returning invalid responses	8/31/20	10/21/20	FIXED
1650910	DigiCert: Inconsistent EV audits	7/6/20	10/7/20	FIXED



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

DigiCert, Inc.

DocuSigned by:
 4/14/2021
GFF89E6506D0438...

Jeremy Rowley
Executive VP of Product



ATTACHMENT A - CERTIFICATION PRACTICE STATEMENT VERSIONS IN-SCOPE

Certificate Policies

Policy Name	Version	Effective Date
DigiCert Certificate Policy	5.4.1	October 8, 2020
DigiCert Certificate Policy	5.4	September 29, 2020

Certification Practice Statements

Policy Name	Version	Effective Date
DigiCert Certification Practices Statement	5.4.1	October 8, 2020
DigiCert Certification Practices Statement	5.4	September 29, 2020



ATTACHMENT B - LIST OF CAs IN SCOPE

Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=GeoTrust Inc./CN=GeoTrust Global CA	FF856A2D251DCD88D36656F450126798CFABAAD40799C722DE4D2B5DB36A73A	2002-05-21	2022-05-21
/C=US/O=GeoTrust Inc./CN=GeoTrust Primary Certification Authority	37D51006C512EAA626421F1EC8C92013FC5F82AE98EE533EB4619B8DEB4D06C	2006-11-27	2036-07-16
/C=US/O=GeoTrust Inc./OU=(c) 2007 GeoTrust Inc. - For authorized use only/CN=GeoTrust Primary Certification Authority - G2	5EDB7AC43B82A06A8761E8D7BE4979EBF2611F7DD79BF91C1C6B566A219ED766	2007-11-05	2038-01-18
/C=US/O=GeoTrust Inc./OU=(c) 2008 GeoTrust Inc. - For authorized use only/CN=GeoTrust Primary Certification Authority - G3	B478B812250DF878635C2AA7EC7D155EAA625EE82916E2CD294361886CD1FBD4	2008-04-02	2037-12-01
/C=US/O=thawte, Inc./OU=Certification Services Division/OU=(c) 2006 thawte, Inc. - For authorized use only/CN=thawte Primary Root CA	8D722F81A9C113C0791DF136A2966DB26C950A971DB46B4199F4EA54B78BFB9F	2006-11-17	2036-07-16
/C=US/O=thawte, Inc./OU=(c) 2007 thawte, Inc. - For authorized use only/CN=thawte Primary Root CA - G2	A4310D50AF18A6447190372A86AFAF8B951FFB431D837F1E5688B45971ED1557	2007-11-05	2038-01-18
/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	2008-04-02	2037-12-01
/C=US/O=GeoTrust Inc./CN=GeoTrust Universal CA	A0459B9F63B22559F5FA5D4C6DB3F9F72FF19342033578F073BF1D1B46CBB912	2004-03-04	2029-03-04
/C=US/O=GeoTrust Inc./CN=GeoTrust Universal CA 2	A0234F3BC8527CA5628EE81AD5D69895DA5680DC91D1CB8477F33F878B95B0B	2004-03-04	2029-03-04
/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	1999-10-01	2036-07-16
/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	FAF78B73D93E50021C0C25F4D20B8E08F7F42C272A2792488A1C29372149C5CF	2020-02-14	2036-07-16



Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/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	69DDD7EA90BB57C93E135DC85EA6FCD5480B603239BDC454FC758B2A26CF7F79	2007-11-05	2038-01-18
/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	2006-11-08	2036-07-16
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 2 Public Primary Certification Authority - G4	FE863D0822FE7A2353FA484D5924E875656D3DC9FB58771F6F616F9D571BC592	2011-10-05	2038-01-18
/C=ZA/ST=Western Cape/L=Durbanville/O=Thawte/OU=Thawte Certification/CN=Thawte Timestamping CA	6B6C1E01F590F5AFC5FCF85CD0B9396884048659FC2C6D1170D68B045216C3FD	1997-01-01	2020-12-31

Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=DigiCert TLS ICA GeoTrust Global	516D856D0353BA69FFEB9C1EBA035D780844857006ECE99C051EC19C10C36CD5	2019-01-22	2022-05-20
/C=JP/O=NTT DOCOMO, INC./OU=GeoRoot Certification Authority/CN=DKHS Device CA	123465EEC4092F8CF7ABFE92B8C701AC09EA79A498F1D3F6A02C1714F39A8423	2009-08-12	2022-05-19
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G3	51CF0FFFC3253FC013AF786F95B190109F8C87F34DFD1CEC44C45888789F5355	2014-06-11	2022-05-20
/C=JP/O=NTT DOCOMO, INC./OU=GeoRoot Certification Authority/CN=DKHS Device CA - G2	56CBB0FFC414E88822A50E9F42D46820381D8C2AAEEF56E0566817ED30F27A27	2015-02-10	2022-05-19
/C=US/O=GeoTrust Inc./CN=RapidSSL CA - G2	0DCDC07ECABBFE38A4606BA663987CDB3BD9817FC67D1DD0CF094AC8CA2787D	2013-06-05	2022-05-20
/C=US/O=GeoTrust, Inc./OU=For Internal Use Only/CN=RapidSSL Enterprise CA	87AA71AF032E36BD69DAF4014FCAD8F2733AA00DEAB959335AE3866E4B6D3A1D	2011-03-08	2021-03-05



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA	E6683E88315CD1CB403C0CEA490F7C4B4C82C91CD485037489AADBAA90839F61	2013-12-11	2022-05-20
/C=US/O=GeoTrust, Inc./OU=Domain Validated SSL/CN=Secure Site Starter DV SSL CA - G3	2FCC009AAFDB28E9256430410A6FA6E76AF09301B1044FEAAACAB00215AA39E1	2015-12-01	2022-05-20
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G2	DEDB31CBCEC5F99D38E86ECC4D76945DF40F2E547C94E4B0124094875AF6A558	2013-06-04	2022-05-20
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G4	8BC1B9D7DEFCCA1CCD09BACDA88F27762092F1ED4A34AE5E4602BB9CC915C506	2014-08-29	2022-05-20
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA - G3	BC3F03A436240EDBA5F83714F6F77E34B37F9B1F0C08C1E558D981E279E8209	2014-08-29	2022-05-20
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL	2E7E65BB1A013DAF0BDF6938502E43E38217FE00D76CA2F99F7AA9E298F48534	2013-08-06	2022-05-20
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL - G2	78DC9CA5F4C2913F3FB74AC52DFFFC2300DA5A772FC2B84C53A2E74437EDD20	2014-09-08	2022-05-20
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL - G4	BC3F0ADC5FF86A4B374DC691F8FE273B1B87DC73E43824F5FE7F36C3E0008311	2015-12-17	2022-05-20
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G2	90AF11E577C72C940B40EC2F3D50507310091EE6196C9C16B228882264A4D808	2012-08-27	2022-05-20
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G4	211DDF5059229B3577760D623D5148DB92F2D0526EA5303E7EEA0300D9FAFF3F	2014-09-08	2022-05-20
/C=NL/O=Intermediate Certificate/OU=Domain Validated SSL/CN=Intermediate Certificate DV SSL CA	8C2745352289E994B3EA349445B1CF6418E51740E1614F8B5667DAD2990AAEFB	2012-06-01	2022-05-21
/C=NL/O=Intermediate Certificate/OU=Domain Validated SSL/CN=Intermediate Certificate DV SSL CA - G2	D876A081FB3827BA22A4087DF675126FF8A96AAB90364BC61F62CE8E9507AA93	2014-09-08	2022-05-20
/C=DE/O=CertCenter AG/OU=Domain Validated SSL/CN=AlwaysOnSSL CA - G2	7D89AE918B25AFDF91036EEE5C15E58C600F42266866A8DE01C71DBC635CA1C0	2016-02-16	2022-05-20



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=CH/O=Hostpoint AG/OU=Domain Validated SSL/CN=Hostpoint DV SSL CA - G2	ABD6D053FDBE356D075050181586B0B9C2B8C03298ABCE64CE25C40401DF3B22	2016-01-19	2022-05-20
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G3	074541ECDFF88ED992ED5ADE3ECDDEF27A26BA1B44480A195C0A8DADAE2521D8E	2013-11-05	2022-05-20
/C=US/O=GeoTrust, Inc./CN=GeoTrust True Credentials CA 3	5D74ED61D0B311E981BBCF0F419A35FA9FA1EC70FF1AEB742D73BCFEBA06CFFF	2012-08-22	2022-05-21
/C=US/O=GeoTrust Inc./OU=GeoTrust Authentication Services/CN=GeoTrust True Identity CA 2	FF1D35ED464063D6031C71E414262CC2310E8C547AB7F7CF2955C9E0349E533F	2011-01-28	2021-01-25
/C=NL/O=Trust Provider B.V./OU=Domain Validated SSL/CN=Trust Provider B.V. DV SSL CA - G2	81051C355EC9F5A89FBA91D1A5BD3F0501EACD80EF93B218003D95CF251A7670	2016-01-21	2022-05-20
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA	8FDA7A8813546F9A7CB065CD32D3650D5B56A2B7F942B9499AEB42A86A3E9D56	2011-04-11	2021-04-08
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA - G2	6FF6F63F6A0D3D63446CDAA523D26273B126C02F922E05D73C4748EB89B86393	2014-09-08	2022-05-20
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA - G4	ED67937083B0739F302396F974AFB41BFBA648473967780B2C59B88AC4121AD4	2015-12-17	2022-05-20
/C=CN/O=TrustAsia Technologies, Inc./OU=Domain Validated SSL/CN=TrustAsia Technologies, Inc. DV SSL CA - G2	C18949E3659FF7DF22B30EC4DA6B4341AF8BEE00E4177A7F86FF59BC46B6BA40	2016-04-05	2022-05-20
/C=US/O=Symantec Corporation/CN=Symantec Time Stamping Services CA - G2	83C1EA9E9EFCA283B840E167F9EA79C4E32ACD33834F59D138FCDAB9D8806B20	2012-10-18	2022-05-20
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=GeoTrust Primary Transition Root	F54F6CED56CF682B570A6CAEC313E9482760DE12E8F928AE30452C4C66AC761A	2017-12-08	2022-12-07
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA GeoTrust PCA	B4983513478FF0C1BD43D31D5B81776276301CFFF58F50CECEA80D1B586C2B03	2021-01-08	2031-01-07
/C=US/O=GeoTrust Inc./CN=GeoTrust Extended Validation SSL CA - G2	C7B57A02F937AE0BE3E21027030592C9D47A70D7013EB3AA94DBC3B7B5AB0662	2012-08-23	2022-08-22



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G5	5B2AE8ABF5E7E563BBC34C97A22554E82393D7ACC09C1765E504AE08C157B5AC	2014-09-09	2024-09-08
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G4	95B09D02122FA8AE6235780F6EA6503E767AC021A0874FE831CE803A50EA8FD7	2013-10-31	2023-10-30
/C=US/O=Symantec Corporation/CN=Symantec SAS EV Code Signing CA	E865F583A928CCB6A7286B94E7920EE1F4998C030B438689E9583BCCD6AC5261	2016-01-12	2026-01-11
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=DigiCert TLS ICA GeoTrust PCA-G3	95D9A8D30F6B1C069C296B3E106BC3CE01EB84AD5786D0F46BF7F15D053B1C0	2019-01-17	2029-01-16
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA GeoTrust PCA-G3 2021	A6D481BFF312C26FD7EF617F43F40E18329C18455F99BC6DA267CB2A79AA4F91	2021-01-12	2031-01-11
/C=US/O=GeoTrust Inc./CN=GeoTrust Extended Validation SHA256 SSL CA	BC9E223CC42275CC034190DF2D0179B55B732D5AC531137A7B522DCFE04A0592	2013-04-09	2023-04-08
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA - G4	5B87E222F20346FA3628816ED6CE71FAABA0857FB8BCBA73776EA1FA56CD0057	2015-06-30	2025-06-29
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL - G5	8C88BA510529B64263CCB21A73D82BA5725A55C1446F2547BCE301FCDC4314DB	2015-12-17	2025-12-16
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA - G2	92EF2F5B553570607DC29C8010E7ABC16283FE355F955A248254290A260A9EBB	2014-06-10	2024-06-09
/C=US/O=GeoTrust, Inc./OU=Domain Validated SSL/CN=Secure Site Starter DV SSL CA - G2	64853613C2436399603D0D560B52F04BB8F81A81746E42389883A4F59A4564D5	2015-12-01	2025-11-30
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL SHA256 CA - G2	3FDF788A5A65E6A29D8C1550D8244906A3B8A7B7D3DA9BDEDD748E4183A763C9	2015-06-30	2025-06-29
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL SHA256 CA	784ACA1063BE4700B3A62F45C2F93B7EEF8BF230FB869610E864FC4B3A23D09F	2014-06-10	2024-06-09
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL - G3	4FD73419046F90868826D581536931D22E54943EBCD059CB7621394D749343C5	2015-06-30	2025-06-29



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=GeoTrust, Inc./OU=Domain Validated SSL/CN=GeoTrust Secure Site Starter DV SSL CA - G1	62FB9B6CD2633B92D91DB264CE678A9B19C575414AB10AD46D157F07BBA26EFF	2015-09-01	2025-08-31
/C=US/O=GeoTrust Inc./CN=GeoTrust SHA256 SSL CA	D9E0C64AB27A64D79CCCCF42A34EC75A251A7E543353C19E984A70EB2F546CDFF	2013-05-23	2023-05-22
/C=DE/O=CertCenter AG/OU=Domain Validated SSL/CN=AlwaysOnSSL CA - G1	EF4478EB094C48FB9FEACA09736270499CA52EB04E3F8EE4C1B2EDC9960398FD	2016-02-16	2026-02-15
/C=NL/O=Intermediate Certificate/OU=Domain Validated SSL/CN=Intermediate Certificate DV SSL CA - G3	E86BC16CC6491E5F4B9976313842B3D02C99EA263AEB1DC223D898FA87C84845	2015-06-30	2025-06-29
/C=CH/O=Hostpoint AG/OU=Domain Validated SSL/CN=Hostpoint DV SSL CA - G1	9F4E3C42FAFEDA3CF88C05CC4B4AF0C0AF306415C30D3D1EEBEDEBF7D177A982	2016-01-19	2026-01-18
/C=NL/O=Trust Provider B.V./OU=Domain Validated SSL/CN=Trust Provider B.V. DV SSL CA - G1	D6EA1061C28B3DB96FF5BAA140AB5714E6B0B4F5D71ABCCD242A49B9B9F4DC27	2016-01-21	2026-01-20
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA - G3	80D9EDB45B7F592CD30254E55BC316BBF44E47DFC0C004A383281C03F345BA39	2015-06-30	2025-06-29
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA - G5	9FE306E663E459644644F60A7153A221436FB9701A0EBD9124EEF8159D15CB43	2015-12-17	2025-12-16
/C=CN/O=TrustAsia Technologies, Inc./OU=Domain Validated SSL/CN=TrustAsia Technologies, Inc. DV SSL CA - G1	3997C721893B3926D3938A311CA07A261B2AE22E01DC587F181DFF15B98B4EA6	2016-04-05	2026-04-04
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA GeoTrust PCA-G2	544A6F6299756ECADE4F7C34811054181B6A23C0FF83EB0AC1A28CEBFE0DAE3E	2021-01-08	2031-01-07
/C=US/O=GeoTrust, Inc./CN=GeoTrust ECC EV SSL CA	C131499FD86B213DB5DEFAAFD53111C28A2DDAF4BA465C8265A72D6CF739B668	2016-01-07	2026-01-06
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G6	419B0C9AD6B872A8B1BB87341AF63EE92E69B27B996662E733032F1288108DFB	2017-05-01	2027-04-29
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G7	546CAFF9060EEF30F4F3E02255FBF5131E657C1710C9A650020133A818BEC1C8	2017-05-01	2027-04-29



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=DigiCert TLS ICA Thawte PCA	0944A4C4D673AB925F4BB9ECB0738A7A7C5A480D7219F1F287EA0FD259E87F14	2019-01-17	2029-01-16
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=thawte Primary Transition Root	DBA1097710F3C629943C23DC7503AC82B9142825EF049F1C26538DB36B480549	2017-12-08	2022-12-07
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA Thawte PCA 2021	091AB5AB6539A6F55D2363637DA0A3FB976E6DB8E55D95FB4B39E174F2A918FD	2021-01-12	2031-01-11
/C=US/O=thawte, Inc./CN=thawte SSL CA - G2	B7A8AF2A4A43F0A86B15604DE6461209C9CD76894D8B0748BC99D9A797013BB0	2013-10-31	2023-10-30
/C=US/O=thawte, Inc./OU=Domain Validated SSL/CN=thawte DV SSL CA - G2	9F2511A23E70D95FB62798508A676CC38964100936A6E6D3CAE77154C0290F02	2014-06-10	2024-06-09
/C=US/O=thawte, Inc./CN=thawte EV SSL CA - G2	37F6BD9BEE0C74F608DD474B56A72F8183077DFC2662AF79BFE3D4FABCFOB1C4	2013-10-31	2023-10-30
/C=US/O=thawte, Inc./CN=thawte EV SSL CA - G3	1A99019F9D412A64454749EDAA8E7DC46673D644DF3CE15CC655735EA0DF86FE	2013-10-31	2023-10-30
/C=US/O=thawte, Inc./CN=thawte SHA256 Code Signing CA	C4D18E0A58E4EFFD17ED77C840B613EF15F551076EA92C2B77F6609A6C2557C7	2013-12-10	2023-12-09
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA Thawte PCA-G2	D68E4629F757689782DD82C0273CCC1AD0BBD1CF929F4088986CE2FE787A425C	2021-01-08	2031-01-07
/C=US/O=thawte, Inc./CN=thawte ECC EV SSL CA	EAD62F42BB369DD43CF6131AC2D8D72E4F9FEE85E69D45DAAFFE326AAC2A46F1	2016-01-07	2026-01-06
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=DigiCert TLS ICA Thawte PCA-G3	56E4F454D982DCDCE611B7B707DB12C533EAC29A25F4A5307E1C065713B0DC8E	2019-01-17	2029-01-16
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=thawte Primary G3 Transition Root	85743AEA6A97C13445E0824C2E1FE502B97ADD124A97EF5120FE07F55812FC33	2017-12-08	2022-12-07
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA Thawte PCA-G3 2021	5163FC5C1AF06A252A4AE98979232F25DA210A2002536F370B429E0400602B37	2021-01-12	2031-01-11



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=thawte, Inc./CN=thawte Extended Validation SHA256 SSL CA	7920B8E18D2FC12D81C2FAB90A63B1B52AB329CE7CD1CB7CA094CDF9D600F492	2013-04-09	2023-04-08
/C=US/O=thawte, Inc./OU=Domain Validated SSL/CN=thawte DV SSL SHA256 CA	537C5C8072363E147C84D21D0D2248B6B99A9A8A43311659835EC33926DA2860	2014-06-10	2024-06-09
/C=US/O=thawte, Inc./CN=thawte SHA256 SSL CA	3F3AF9C9CC2C7599EF8F6DD7CA516CFC1797D7D12002254F3BFD0D4D0FE9DE86	2013-05-23	2023-05-22
/C=US/O=thawte, Inc./CN=thawte SHA256 Code Signing CA - G2	F76F0D8AD330ACFD4C5BD05A58A1CF155DE00BE2C98F4E7899BE24E80A2ABCBF	2014-07-22	2024-07-21
/C=US/O=thawte, Inc./CN=thawte EV Code Signing CA	F376F6E5B660F6BEDB768DCD1303EADD4A96F2ED7A97717E878FAE6BB5959FA	2016-03-01	2026-02-28
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=DigiCert Transition Root G3	0F57B96FA7B31247EC39CB307D38CA2BF3B29F54AFD50A351D18533529517B46	2017-12-08	2022-12-07
/C=US/O=Netflix, Inc./CN=Netflix Public SHA2 RSA CA 2	BD3A6BA80EBBC83A75D62F779F5D6CCD9ABB7AB6A8DFA471B496E81CD6610314	2020-02-14	2030-02-13
/C=US/O=Netflix, Inc./CN=Netflix Public SHA2 RSA CA 3	8CB67E8E76DE03A83B9A4DAAEA595F70850DF42A6E5602444754FC52F4001633	2020-10-21	2030-10-20
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA PCA3-G3	987BEC30935BE68FA82B01A7AD4DB2E6CCB7E869F28D352D0EA4D66EB1FB9334	2021-01-08	2031-01-07
/C=US/O=Oracle Corporation/OU=VeriSign Trust Network/OU=Class 3 MPKI Secure Server CA/CN=Oracle SSL CA	C76F70980598C66A8E327E17B495A2276265C4B9A3575EFA1D550502A823D591	2010-10-12	2020-10-11
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Shared Public Organization CA - SHA1	A829444AD2FB48079A595FBB88C4E658EE2089A5E129B89AAACCE851198FFD7	2013-07-11	2023-07-10
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Admin Intermediate Certificate Authority	6D0BD6E1AC0EC398EE8537906D98F378FC7AB49C1E296AF233374FA5A271DB34	2011-06-07	2021-06-06



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	3B6D701331A8CB809443E42A732BAD675F225B15CC439ACF26A09587C885ECFD	2015-05-12	2025-05-11
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Managed PKI Administrator CA - G4	5D81D0AA3476F48A5A675D6D3E6AB766BDC8AA167A1A94D79DF91B4251082FA4	2015-01-06	2025-01-05
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Registration Authority Intermediate CA	83C935F34C50B7665409404AFE5DFA07ADCB5C7B52B2BEF0AC6E993C00545D76	2011-06-07	2021-06-06
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Organizational CA - G2	DDE4BEBF262C9D8DF5CB54FE4F5995191EAF58ADCB92FE5AED3128AC0D1916C7	2011-03-16	2021-03-15
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	564DBC6A76550FD2D4F4BAC6448A1157B33CBD8E0B3FD76D72107540964A85B5	2013-10-31	2023-10-30
/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	D9BC973F88909696DA10833197944CA58AC4A88847779C9133374267100EEC58	2006-11-08	2021-11-07
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	74EB307A78AC7E8570CC1BAE1C51102A6053C96F3332D703285A743BCBD35D9E	2015-05-12	2025-05-11
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Registration Authority Intermediate CA	5B690E1CD2BC0016E4DB2AABAB503745E41F86B2448F2EC06D29F24999DEBCA2	2011-06-07	2021-06-06
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Organizational CA - G4	E3710F0C667E589DE8E4AEA37E701AF3FBB6275762E6FEA3FD6629544279D6	2014-05-06	2024-05-05



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Organizational CA - G2	F5068C4293A26A0E420D02AE4BEF27008377E3E7ECD8E5CF194428162E3C40F4	2011-03-16	2021-03-15
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Admin Intermediate Certificate Authority	062A76E5196E4C6220ACA7D32AA419761101374C11866C3627D5F8A055ECE2CE	2011-06-07	2021-06-06
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Organizational CA - G4	6F6B2D4A309A156C61977FBCCF7D2AC9F59623FFCCEAC3E4EE5A83A18D895275	2014-05-06	2024-05-05
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G3	53A5E32ACC5714ED20C7778C655D1EE97EC07156074C8B016E2CFC73E9D2712B	2017-11-06	2022-11-05
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Transition ECC Root	DB98194E55B936D26E6CB3F460A262EB6CA66337E7BFF17A0BFC083251F63626	2017-11-06	2022-11-05
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA PCA3-G4	B84D72D3742485C461A27CE05EB91408EC0BFAAB5441FEA8A223EE9BB706A68D	2021-01-08	2031-01-07
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA	ADEBF83FD3D3F9546BB77FAAB516DD9337CCF91E1198F74337769EC68E6E826E	2012-12-20	2022-12-19
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit Extended Validation CA	5AD4183B54F0E2762DA8D910E1E7E9F2AB2F1BC4CE6A638F0DBBF337EB4A139F	2012-12-20	2022-12-19
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 384 bit Extended Validation CA	77FE876A1C476349F5EB9AE9BF53F7814A0AE411562667C58B7ED27869C54091	2012-12-20	2022-12-19
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 384 bit SSL CA	14214583E5F49CE2DB88B93CFE3F7D81B678C86AFBCA9240BAA4B9E4CE90BF2C	2012-12-20	2022-12-19



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=NZ/O=IBM New Zealand Limited/OU=Symantec Trust Network/CN=IBM New Zealand Limited Public CA	A6AE7959A195749CA887386FA04482BD169DC1157E312D301B0D5C333FAF2B02	2015-02-03	2025-02-02
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=DigiCert TLS ICA VRSN PCA-G5	DD6915403ED7C800F7704792C8084C5EE0C7DE4B28F4F1AC09658DBC34EA9071	2019-01-17	2029-01-16
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G2	2D4FAD3455AB61397401ABBB518922F84336B67E02FC8D2DB283825C4AB981BB	2017-11-06	2022-11-05
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Transition RSA Root	0D88900DBB68C6CA5471F653FCACD407EBD7B1519046F9E08CED3C274FD11A1	2017-11-06	2022-11-05
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G2	AADADD5A879D2EB8C41A89597291292709D42052F5B6399541C694C3B7353CD1	2018-04-03	2028-04-02
/C=US/O=DigiCert, Inc./CN=DigiCert TLS ICA PCA-G5 2021	03B2B514B076931079AA09E784150D4FE62CC9B2A071EB601B125292E50576CD	2021-01-12	2031-01-11
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit EV CA - G2	663636C03FD0B5B171F2B04407C3DF767B349C8A990D87CE485898166E2B5120	2015-05-12	2025-05-11
/C=US/O=Oracle Corporation/OU=VeriSign Trust Network/OU=Class 3 MPKI Secure Server CA/CN=Oracle SSL CA	7F6889FFE8B02045E2CAC99A2F2EE4F4C2EED24934B6521872D34BF812671C4B	2010-10-12	2020-10-11
/C=US/O=Oracle Corporation/OU=Symantec Trust Network/CN=Oracle SSL CA - G2	E4AF2FAE41187D58F209B01B1D8753C2DCCB3F601CE86273E37E8738C2A5CCB5	2015-01-06	2025-01-05
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	2E2861289B5CCEDECAE4C31BF262E0FB0C29B6C1530573442731CA65D821E901	2015-05-12	2025-05-11
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 EV SSL CA - G3	9E6BC5F9ECC52460E8EDC02C644D1BE1CB9F2316F41DAF3B616A0B2058294B31	2013-10-31	2023-10-30
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 EV SSL SGC CA - G2	B2745D0A9B71D948F34E921AF59F342ADF6E407D88BC51D38AC52B583A0EBD15	2013-10-31	2023-10-30



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 EV SSL CA - G2	6C66B76E68D6C79FAFE5C94E9B7D0CF753C715CC85387E11323B7935F861C187	2013-10-31	2023-10-30
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Organizational CA - G2	05BDD9A7C6706D39D6DB1A580AAFF67D4673027B6CF01FD15367D8ED84A890F0	2011-03-16	2021-03-15
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/OU=Insatningsgaranti Service CA/CN=Symantec Class 3 Organizational CA - G3	CF6F24FFE48F8408A75CFADF2B65F8A4E4172F3B7C24C41B5B7481D24018197C	2011-06-21	2021-06-20
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	EAE72EB454BF6C3977EBD289E970B2F5282949190093D0D26F98D0F0D6A9CF17	2013-10-31	2023-10-30
/C=US/O=Wells Fargo/OU=Symantec Trust Network/CN=Wells Fargo Certificate Authority WS1	C21087416BBF983B9FFE40F5D56EE0FFD94EB1E666B04A532ADE482EC201D67C	2015-08-25	2025-08-24
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/OU=Domain Validated SSL/CN=Symantec Basic DV SSL CA - G1	526E30DED6BF9D5CE216F50C832402B48AB70D55AEDA918A1873A5883EBDB1B5	2016-06-07	2026-06-06
/C=CN/O=TrustAsia Technologies, Inc./OU=Symantec Trust Network/OU=Domain Validated SSL/CN=TrustAsia DV SSL CA - G5	B41AB845CAB4DB9CB1FE6505765F36A0868ADC5DF419B38979FB6A4FE4131F70	2016-08-11	2026-08-10
/C=CN/O=TrustAsia Technologies, Inc./OU=Symantec Trust Network/OU=Domain Validated SSL/CN=TrustAsia ECC DV SSL CA - G7	AD806A9357B87D1EB1DD85A5A3C092D0204BA447FF4B3714E3F1034F4D3DE8A0	2016-12-13	2026-12-12
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	59F8CB7D7E9E13CB778FF62198EBE05551B515A58BBBA2EF19C33C760C823916	2013-10-31	2023-10-30
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Organizational CA - G4	FD33AEFD33A161FAC0190E41DF9DD50C3339E883C03F49C4A2AB2B8956EF54D4	2014-05-06	2024-05-05



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 SHA256 Code Signing CA	582DC1D97A790EF04FE2567B1EC88C26B03BF6E99937CAE6A0B50397AD20BBF8	2013-12-10	2023-12-09
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/OU=Insattningsgaranti Service SHA256 CA/CN=Symantec Class 3 Organizational CA - G5	5CCA1F2FF39A4A8924A3606036D8AADE2E23C024EFCAFF3DC2C66759FEF776FB	2014-10-07	2024-10-06
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Extended Validation Code Signing CA	169DAF83C0870AB8927C99D3FC0774DDF34FBA28B02B881DCD0B633B6D71B2BA	2012-06-07	2022-06-06
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 2 Signing ECC Intermediate CA	FD02510CEC145E5266860482DD4C328609C1A788AF3FCB10A09678DE30F46B95	2015-01-22	2030-01-21