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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, for its CAs as enumerated in [Attachment B](#), DigiCert has:

- disclosed its extended validation SSL (“EV SSL”) certificate lifecycle management business practices in the applicable versions of its DigiCert Certification Practices Statement and DigiCert Certificate Policy enumerated in [Attachment A](#), including its commitment to provide EV SSL certificates in conformity with the CA/Browser Forum Requirements on its [repository](#), and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and EV SSL certificates it manages is established and protected throughout their lifecycles; and
 - EV SSL subscriber information is properly authenticated

throughout the period October 1, 2020 to September 30, 2021, based on the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL v1.7.3](#).

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 - Extended Validation SSL v1.7.3](#).

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.

We are required to be independent and to meet our other ethical responsibilities in accordance with relevant ethical requirements relating to the engagement.



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

There are inherent limitations in the effectiveness of any system of internal control, including the possibility of human error and the circumvention of controls. For example, because of their nature, controls may not prevent, or detect unauthorised access to systems and information, or failure to comply with internal and external policies or requirements. Also, the projection to the future of any conclusions based on our findings is subject to the risk that controls may become ineffective.

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 Matters

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

Matter Topic		Matter Description
1	Certificate Content	DigiCert disclosed in Mozilla Bug #1710856 that two (2) issued certificates had invalid localityName.
		DigiCert disclosed in Mozilla Bug #1727963 that two (2) issued certificates had a truncated registration number.
		DigiCert disclosed in Mozilla Bug #1714439 that thirty-nine (39) issued certificates organizational type failed to match the registration number.
2	Certificate Revocation	DigiCert disclosed in Mozilla Bug #1693343 that it missed the 24 hour revocation requirement for eight (8) certificates that were reported to them as having compromised keys.



While the DigiCert assertion notes all issues disclosed on Bugzilla during the engagement period, we have only noted those instances relevant to the CAs enumerated in [Attachment B](#) and applicable to the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL v1.7.3](#).

Use of the WebTrust Seal

DigiCert's use of the WebTrust for Certification Authorities - Extended Validation SSL Seal constitutes a symbolic representation of the contents of this report and it is not intended, nor should it be construed, to update this report or provide any additional assurance.

BDO USA, LLP

December 15, 2021



ATTACHMENT A - CERTIFICATION PRACTICE STATEMENT AND CERTIFICATE POLICY VERSIONS IN-SCOPE

Certificate Policies

Policy Name	Version	Effective Date
DigiCert Certificate Policy	5.7	September 14, 2021
DigiCert Certificate Policy	5.6	April 12, 2021
DigiCert Certificate Policy	5.5	March 11, 2021
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	5.7	September 14, 2021
DigiCert Certification Practices Statement	5.6	April 12, 2021
DigiCert Certification Practices Statement	5.5	March 11, 2021
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
CN=DigiCert SMIME ECC P384 Root G5; O=DigiCert, Inc.; C=US	E8E8176536A60CC2C4E10187C3BEFCA20EF263497018F566D5BEA0F94D0C111B	1/15/2021	1/14/2046
CN=DigiCert TLS RSA4096 Root G5; O=DigiCert, Inc.; C=US	371A00DC0533B3721A7EEB40E8419E70799D2B0A0F2C1D80693165F7CEC4AD75	1/15/2021	1/14/2046
CN=DigiCert TLS ECC P384 Root G5; O=DigiCert, Inc.; C=US	018E13F0772532CF809BD1B17281867283FC48C6E13BE9C69812854A490C1B05	1/15/2021	1/14/2046
CN=DigiCert SMIME RSA4096 Root G5; O=DigiCert, Inc.; C=US	90370D3EFA88BF58C30105BA25104A358460A7FA52DFC2011DF233A0F417912A	1/15/2021	1/14/2046
CN=DigiCert RSA4096 Root G5; O=DigiCert, Inc.; C=US	E46A392204A8DCA342A71C1CA9A60C9185B9A930370120C3B9C7E3856F0D8F3B	1/15/2021	1/14/2046
CN=DigiCert CS ECC P384 Root G5; O=DigiCert, Inc.; C=US	26C56AD2208D1E9B152F66853BF4797CBEB7552C1F3F477251E8CB1AE7E797BF	1/15/2021	1/14/2046
CN=DigiCert CS RSA4096 Root G5; O=DigiCert, Inc.; C=US	7353B6D6C2D6DA4247773F3F07D075DEC5134212BEAD0928EF1F46115260941	1/15/2021	1/14/2046
CN=DigiCert ECC P384 Root G5; O=DigiCert, Inc.; C=US	C1468CF2254E6004B24696ABA209D1A30BA6E2DFF68A9A4E32C6AB414F90C8D9	1/15/2021	1/14/2046
CN=DigiCert Client ECC P384 Root G5; O=DigiCert, Inc.; C=US	CD851C5C25467C0095A43927D0B2292D932975E84DCE4C5E794542C6574C3AA4	1/15/2021	1/14/2046
CN=DigiCert Client RSA4096 Root G5; O=DigiCert, Inc.; C=US	3AF21466920FA91FA31F4331E445C16BE2330024BFD2C239C0D85AB530714766	1/15/2021	1/14/2046
CN=GeoTrust Global CA; O=GeoTrust Inc.; C=US	FF856A2D251DCD88D36656F450126798CFABAAD40799C722DE4D2B5DB36A73A	5/21/2002	5/21/2022
CN=VeriSign Class 1 Public Primary Certification Authority - G3; OU=VeriSign Trust Network, (c) 1999 VeriSign, Inc. - For authorized use only; O=VeriSign, Inc.; C=US	CBB5AF185E942A2402F9EACBC0ED5BB876EEA3C1223623D00447E4F3BA554B65	10/1/1999	7/16/2036
CN=Symantec Class 2 Public Primary Certification Authority - G6; OU=Symantec Trust Network; O=Symantec Corporation; C=US	CB627D18B58AD56DDE331A30456BC65C601A4E9B18DEDCEA08E7DAAA07815FF0	10/18/2011	12/1/2037



Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Global Root G2; OU=www.digicert.com; O=DigiCert Inc; C=US	CB3CCBB76031E5E0138F8DD39A23F9DE47FFC35E43C1144CEA27D46A5AB1CB5F	8/1/2013	1/15/2038
CN=GeoTrust Primary Certification Authority - G3; OU=(c) 2008 GeoTrust Inc. - For authorized use only; O=GeoTrust Inc.; C=US	B478B812250DF878635C2AA7EC7D155EAA625EE82916E2CD294361886CD1FBD4	4/2/2008	12/1/2037
CN=Symantec Class 3 Public Primary Certification Authority - G6; OU=Symantec Trust Network; O=Symantec Corporation; C=US	B32396746453442F353E616292BB20BBAA5D23B546450FDB9C54B8386167D529	10/18/2012	12/1/2037
CN=thawte Primary Root CA - G2; OU=(c) 2007 thawte, Inc. - For authorized use only; O=thawte, Inc.; C=US	A4310D50AF18A6447190372A86AF8B951FFB431D837F1E5688B45971ED1557	11/5/2007	1/18/2038
CN=Hotspot 2.0 Trust Root CA - 03; O=WFA Hotspot 2.0; C=US	A3CC68595DFE7E86D8AD1772A8B5284ADD54ACE3B8A798DF47BCCAFB1FDB84DF	12/8/2013	12/8/2043
CN=Symantec Class 1 Public Primary Certification Authority - G6; OU=Symantec Trust Network; O=Symantec Corporation; C=US	9D190B2E314566685BE8A889E27AA8C7D7AE1D8AADDBA3C1ECF9D24863CD34B9	10/18/2011	12/1/2037
CN=Cybertrust Global Root; O=Cybertrust, Inc	960ADF0063E96356750C2965DD0A0867DA0B9CBD6E77714AEAFB2349AB393DA3	12/15/2006	12/15/2021
CN=VeriSign Class 2 Public Primary Certification Authority - G3; OU=VeriSign Trust Network, (c) 1999 VeriSign, Inc. - For authorized use only; O=VeriSign, Inc.; C=US	92A9D9833FE1944DB366E8BFAE7A95B6480C2D6C6C2A1BE65D4236B608FCA1BB	10/1/1999	7/16/2036
CN=thawte Primary Root CA; OU=Certification Services Division, (c) 2006 thawte, Inc. - For authorized use only; O=thawte, Inc.; C=US	8D722F81A9C113C0791DF136A2966DB26C950A971DB46B4199F4EA54B78BFB9F	11/17/2006	7/16/2036
CN=DigiCert Assured ID Root G3; OU=www.digicert.com; O=DigiCert Inc; C=US	7E37CB8B4C47090CAB36551BA6F45DB840680FBA166A952DB100717F43053FC2	8/1/2013	1/15/2038
CN=DigiCert Assured ID Root G2; OU=www.digicert.com; O=DigiCert Inc; C=US	7D05EBB682339F8C9451EE094EEBF8F953A114EDB2F44949452FAB7D2FC185	8/1/2013	1/15/2038
CN=DigiCert High Assurance EV Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	7431E5F4C3C1CE4690774F0B61E05440883BA9A01ED00BA6ABD7806ED3B118CF	11/10/2006	11/10/2031
CN=Verizon Global Root CA; OU=OmniRoot; O=Verizon Business; C=US	68AD50909B04363C605EF13581A939FF2C96372E3F12325B0A6861E1D59F6603	7/30/2009	7/30/2034



Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=GeoTrust Primary Certification Authority - G2; OU=(c) 2007 GeoTrust Inc. - For authorized use only; O=GeoTrust Inc.; C=US	5EDB7AC43B82A06A8761E8D7BE4979EBF2611F7DD79BF91C1C6B566A219ED766	11/5/2007	1/18/2038
CN=DigiCert Trusted Root G4; OU=www.digicert.com; O=DigiCert Inc; C=US	552F7BDCF1A7AF9E6CE672017F4F12ABF77240C78E761AC203D1D9D20AC89988	8/1/2013	1/15/2038
CN=Symantec Class 3 Public Primary Certification Authority - G4; OU=Symantec Trust Network; O=Symantec Corporation; C=US	53DFDFA4E297FCFE07594E8C62D5B8AB06B32C7549F38A163094FD6429D5DA43	10/18/2012	12/1/2037
CN=thawte Primary Root CA - G3; OU=Certification Services Division, (c) 2008 thawte, Inc. - For authorized use only; O=thawte, Inc.; C=US	4B03F45807AD70F21BFC2CAE71C9FDE4604C064CF5FFB686BAE5DBAAD7FDD34C	4/2/2008	12/1/2037
CN=DigiCert Global Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	4348A0E9444C78CB265E058D5E8944B4D84F9662BD26DB257F8934A443C70161	11/10/2006	11/10/2031
CN=DigiCert Assured ID Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	3E9099B5015E8F486C00BCEA9D111EE721FABA355A89BCF1DF69561E3DC6325C	11/10/2006	11/10/2031
CN=GeoTrust Primary Certification Authority; O=GeoTrust Inc.; C=US	37D51006C512EAAB626421F1EC8C92013FC5F82AE98EE533EB4619B8DEB4D06C	11/27/2006	7/16/2036
CN=Symantec Class 1 Public Primary Certification Authority - G4; OU=Symantec Trust Network; O=Symantec Corporation; C=US	363F3C849EAB03B0A2A0F636D7B86D04D3AC7FCFE26A0A9121AB9795F6E176DF	10/5/2011	1/18/2038
CN=DigiCert Global Root G3; OU=www.digicert.com; O=DigiCert Inc; C=US	31AD6648F8104138C738F39EA4320133393E3A18CC02296EF97C2AC9EF6731D0	8/1/2013	1/15/2038
CN=VeriSign Universal Root Certification Authority; OU=VeriSign Trust Network, (c) 2008 VeriSign, Inc. - For authorized use only; O=VeriSign, Inc.; C=US	2399561127A57125DE8CEFEA610DDF2FA078B5C8067F4E828290BFB860E84B3C	4/2/2008	12/1/2037
CN=Baltimore CyberTrust Root; OU=CyberTrust; O=Baltimore; C=IE	16AF57A9F676B0AB126095AA5EBADEF22AB31119D644AC95CD4B93DBF3F26AEB	5/12/2000	5/12/2025



Cross-Signed Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Cybertrust Global Root; O=Cybertrust, Inc	E71D8C3BAF43F6B3352DF574A9F0D4A2065BF03DA179514B1FCC5D9BEC8C8FCD	12/3/2014	12/3/2024
CN=DigiCert Transition RSA Root; OU=www.digicert.com; O=DigiCert Inc; C=US	E52B44CD1E6A9ADA0A0409D1CC5D73A6F417603D70E6F5DC5483AB8ADAEF3CA4	11/2/2017	11/2/2037
CN=Verizon Global Root CA; OU=OmniRoot; O=Verizon Business; C=US	D96CBC03B523CD3315918651CF4862162887DD563AFB2352D3F34BB94576F93D	5/13/2014	5/13/2024
CN=Cybertrust Global Root; O=Cybertrust, Inc	D775784887CDBD7E9FCB2A9D589D367A0B6238DA1EAF51DC71C99B89B99229E0	4/23/2014	4/23/2021
CN=DigiCert High Assurance EV Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	CBF8FB77660167E6BAACD0DF77CDA397D0117EE2BEEA23B935317F8BB5B5E3B0	12/7/2016	5/10/2025
CN=thawte Primary Transition Root; OU=www.digicert.com; O=DigiCert, Inc; C=US	C5D814672CF65B953E6F69E702C7C23A5EBDA45796AA58834121DFB0D06C0846	12/8/2017	12/8/2037
CN=Verizon Global Root CA; OU=OmniRoot; O=Verizon Business; C=US	B90EEAE931E5E2B7D335F149DA6C2210986000D214FFDB62A72F7332D63731AF	4/9/2014	4/9/2024
CN=thawte Primary G3 Transition Root; OU=www.digicert.com; O=DigiCert, Inc; C=US	B8FFC04C86B15041DB8F3AADA47FEAF097E8590AAF28A0E59CDBADB7756A6634	12/8/2017	12/8/2037
CN=GeoTrust Primary Transition Root; OU=www.digicert.com; O=DigiCert, Inc; C=US	B89B256ACD7C8BFC5C136A8570575350219E9D55879A85A7EC0CC0C1283C24A3	12/8/2017	12/8/2037
CN=DigiCert Universal Transition Root; OU=www.digicert.com; O=DigiCert, Inc; C=US	AF0E363CAE6DF489F2976A284D12D4C33C94B135FA77F89E89298D7491E99974	12/8/2017	12/8/2037
CN=DigiCert Trusted Root G4; OU=www.digicert.com; O=DigiCert Inc; C=US	AD8EB32C9DA91DDC855F382745990147DC6F23D9FBB04FC9D476B1EE20FC71D8	7/1/2013	10/22/2023
CN=Cybertrust Global Root; O=Cybertrust, Inc	9F61D09768DA33F7F99F7E7EAD935902224943B4C9AD07B629F745C0B08475B7	4/23/2014	4/23/2021
CN=DigiCert High Assurance EV Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	89DAADB41BA698BB378AEE84EAC96121D20F8C2FCA63EC686D9307229AD3EB2E	6/18/2014	6/18/2021
CN=DigiCert Universal Transition Root; OU=www.digicert.com; O=DigiCert, Inc; C=US	88A07073D4527069DC9E978053F35729705C058302648ED02E5FCE6561459E61	12/8/2017	12/7/2022



Cross-Signed Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Transition Root G3; OU=www.digicert.com; O=DigiCert, Inc; C=US	7E6AF50A3A9DD01737204D912B7721F7C0809CCCE64284578992049AAACE34B0B	12/8/2017	12/8/2037
CN=DigiCert Global Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	6DACBB8945137B1DAD4211B0436EFBE06F12ACE36904973B45AE25740823D369	12/7/2016	5/10/2025
CN=Cybertrust Global Root; O=Cybertrust, Inc	64B3542D1BC972F58A1D179F3D0B9652BE434F3AE3842E0C447880D4D623A4DE	4/23/2014	4/23/2024
CN=DigiCert Transition ECC Root; OU=www.digicert.com; O=DigiCert Inc; C=US	45BF04DCA5DE7A6339F1DF835BC9013457B487FDB4308E4080C6423C8E4B2705	11/2/2017	11/2/2037
CN=Cybertrust Global Root; O=Cybertrust, Inc	24905145BD9B9BFE99C60354B49951BE0E709F1634CFBD0E370FEB9F068ED6C3	12/3/2014	12/3/2024



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Secure Auth CA2; O=DigiCert Inc; C=US	4759D6F4ED6DF0E08FC4CA801986E2BE10594DBAF341B4C45ABAF3748887D25	10/9/2020	10/8/2030
CN=Data Management Intermediate CA2; O=Fresenius Kabi AG; C=US	422F9D4E68134E362B7569E5298A173CEC40C7C7274B2263A9BC8ADA1D1A23FA	10/9/2020	8/25/2025
CN=DigiCert High Assurance TLS RSA SHA256 2020 CA1; O=DigiCert, Inc.; C=US	9BFED3D9DC95236BCFFCB35D4B120DB0E3867F62B1FD015A928DA0B303966683	12/17/2020	12/16/2030
CN=DigiCert High Assurance TLS Hybrid ECC SHA256 2020 CA1; O=DigiCert, Inc.; C=US	74EAB573DA7DB195097BE0E90F334934C7A4C89E8083759DB433A00EDD243D9	12/17/2020	12/16/2030
CN=DigiCert TLS ICA SYMC PCA3-G6; O=DigiCert, Inc.; C=US	FDB351BDA2D821C3DFB924A12D90D6DC760D5F6200144529E502E467BBF9ECC	1/8/2021	1/7/2031
CN=DigiCert TLS ICA SYMC PCA3-G4; O=DigiCert, Inc.; C=US	B1D1244218C903B64EBF42150C5FD891EB5B663CE6F20DD12E8352DD7D1E6693	1/8/2021	1/7/2031
CN=DigiCert TLS ICA Universal 2021; O=DigiCert, Inc.; C=US	23EE12A8DA9D38549C54A32BC1E4A18BAF1570488107D169EBD734DFDA330B0E	1/12/2021	1/11/2031
CN=Abbott Laboratories Secure Authentication CA G2; O=Abbott Laboratories Inc.; C=US	2697ACB96A49BE2BFC5C06C393949F0D8E75106AD6D4C73E2DA172A90831A85A	1/21/2021	1/20/2031
CN=DKB CA 101; O=Deutsche Kreditbank AG; C=DE	0E5B8040B3AB60A50D2D5FB11E19AEB2E45B564B335B79D773D42B81D8219C75	2/4/2021	2/3/2031
CN=CrowdStrike Global EV CA G2; O=CrowdStrike, Inc.; C=US	5EBD9874E6B88DA38F4A7B9566CE5D4DF05E0C224D94986AD8CC5EBA004A0C04	3/4/2021	3/3/2031
CN=HydrantID SSL CA D1; O=Avalanche Cloud Corporation; C=US	A847544CC3CD54E855CA39780C2162431F5C8E327EC66D5A43CF266877BEC50F	3/4/2021	3/3/2031
CN=HydrantID EV SSL CA D1; O=Avalanche Cloud Corporation; C=US	863472EC79DB54077114DADE720CE1F7B41A233748FC6773FA86520F0B9AAA21	3/4/2021	3/3/2031
CN=DigiCert Global Root G2; OU=www.digicert.com; O=DigiCert Inc; C=US	0BA8C0D459B76ABC0825294F565E24F4F169D4A4819D0692D371522D297724B8	3/4/2021	3/3/2031
CN=Giesecke and Devrient CA; O=Giesecke+Devrient GmbH; C=DE	0A4FF256B1A0A14BB81F318B64D47D6C36A4C3529F9C39299A47ED51A2B8EE52	3/11/2021	3/10/2031



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Abbott Laboratories Secure Authentication CA G3; O=Abbott Laboratories Inc.; C=US	ABFD261AB3733480BF58616991FFE266B6DB315E226A32339702D6C0BE6B96F2	3/11/2021	3/10/2031
CN=Alaska Permanent Fund Corporation Public CA G1; O=Alaska Permanent Fund Corporation; C=US	CD662FFFCE76F071BE918AECE125F9B54873479F3AF8C3545DB330E28F92B035	3/11/2021	3/10/2026
CN=DigiCert PKI Platform AATL CA; O=DigiCert, Inc.; C=US	7E15A84E1A0927AED136C59A048AE48E63BA82EDAA9827892C105A9A89BDE659	3/11/2021	3/10/2031
CN=DigiCert High Assurance CA-3b; O=DigiCert Inc; C=US	28506E33F55A6072115F3E04C9BDBF5AF5312CA8FC132508B97AC99FEE0516E8	3/30/2021	3/29/2031
CN=Aetna Inc. Secure CA2; O=Aetna Inc; C=US	428B87B8061A79ABA75877FD0383ADB831A1459B86BC408CE7D8D17B295B75BB	3/30/2021	3/29/2025
CN=Aetna Inc. Secure EV CA; O=Aetna Inc; C=US	8B6CCC3BE92F0121E6494AC704BF0B9B9CEBBA2E363C8E8122D90984D3EBF386	3/30/2021	3/29/2025
CN=Bloomberg TLS CA; O=Bloomberg LP; C=US	F5F1A8C04E5CF0FDB678DD279994463E48508C4349643B0D92CBFD7523F6C40A	3/30/2021	3/29/2031
CN=HydrantID EV SSL CA D1; O=Avalanche Cloud Corporation; C=US	F9D4A6C011E9C6A8F5A4CF7ED0416869C7238EF93A56161EA6CA3D8B41716097	3/30/2021	3/29/2031
CN=CrowdStrike Global EV CA; O=CrowdStrike, Inc.; C=US	86B109232C19EC514F8CB26788E65090293F96DD8D2942017A33035AB225D5FB	3/30/2021	3/29/2031
CN=CrowdStrike Global EV CA G2; O=CrowdStrike, Inc.; C=US	9ED1EDEA95AA5B72B513A3E41A1BA0D2EFB14CEC88891E34D00495C95556605C	3/30/2021	3/29/2031
CN=DigiCert Global G2 TLS RSA SHA256 2020 CA1; O=DigiCert Inc; C=US	C8025F9FC65FDFC95B3CA8CC7867B9A587B5277973957917463FC813D0B625A9	3/30/2021	3/29/2031
CN=DigiCert Global G3 TLS ECC SHA384 2020 CA1; O=DigiCert Inc; C=US	699ED65BDD3D5E790776D165EA7A325B7AEAF419647921A92FF28BB0680D72BA	3/30/2021	3/29/2031
CN=DigiCert High Assurance TLS Hybrid ECC SHA256 2020 CA1; O=DigiCert, Inc.; C=US	5D270CB4EFF587AD6CD17CB2B60D9084A153D77D2AA79A2CB3DB1DDB904684F5	3/30/2021	3/29/2031
CN=DigiCert High Assurance TLS RSA SHA256 2020 CA1; O=DigiCert, Inc.; C=US	495E6624A15340C4C74AB86037748AD62D1EF4F14E7C81AB7CDB629BE1404757	3/30/2021	3/29/2031



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Trusted G4 TLS RSA SHA384 2020 CA1; O=DigiCert Inc; C=US	1E29690F957F64BA9C3658A31055751AACD4B440A9589DFA1D780FE07069DB52	3/30/2021	3/29/2031
CN=DKB CA 101; O=Deutsche Kreditbank AG; C=DE	D889A2641F5DF941353817C87A5CD0D9CDACED3886240BFD937329E94D3A45B	3/30/2021	3/29/2031
CN=Plex Devices High Assurance CA3; O=Plex, Inc.; C=US	1316ED42A849217D51CFB4DE1A1418A8D3A77902FB305D3024F72D4636B82FF0	3/30/2021	3/29/2025
CN=DigiCert Global G3 TLS ECC SHA384 2020 CA1; O=DigiCert Inc; C=US	0587D6BD2819587AB90FB596480A5793BD9F7506A3EACE73F5EAB366017FE259	4/14/2021	4/13/2031
CN=DigiCert TLS Hybrid ECC SHA384 2020 CA1; O=DigiCert Inc; C=US	F7A9A1B2FD964A3F2670BD668D561FB7C55D3AA9AB8391E7E169702DB8A3DBCF	4/14/2021	4/13/2031
CN=DigiCert TLS RSA SHA256 2020 CA1; O=DigiCert Inc; C=US	52274C57CE4DEE3B49DB7A7FF708C040F771898B3BE88725A86FB4430182FE14	4/14/2021	4/13/2031
CN=DigiCert G5 TLS RSA4096 SHA384 2021 CA1; O=DigiCert, Inc.; C=US	EF9296036A6D7C986C8D59DB936093E78E85C70AEDB4FE7A54DDCAA821031C72	2/11/2021	2/10/2031
CN=DigiCert G5 TLS RSA4096 SHA384 2021 CA1; O=DigiCert, Inc.; C=US	C6270A150691FBE190D831F5139BDFECCF7B298B4FA0CA17306A69D7E91E7BA2	4/14/2021	4/13/2031
CN=DigiCert G5 TLS ECC SHA384 2021 CA1; O=DigiCert, Inc.; C=US	E5A1C1919E3BEAEE5935A8485DDCE0E3F01A2618DB0F0793B3DB3D9AC2D967C7	2/11/2021	2/10/2031
CN=DigiCert G5 TLS ECC SHA384 2021 CA1; O=DigiCert, Inc.; C=US	97A073957C5812725757672F222690655A1407D71011EDFC8B2FADC5128911DA	4/14/2021	4/13/2031
CN=DigiCert Baltimore TLS RSA SHA256 2020 CA1; O=DigiCert Inc; C=US	701317250210AB91280527C3B436931015B8DCEE69A6893ADA4FFAD25A6FE44F	4/22/2021	5/12/2025
CN=DigiCert One AATL CA; O=DigiCert Inc.; C=US	419507E46D6520ECEC453A0C2B5292A099431C35E8967A6D0EE573CAAB116C71	4/29/2021	4/28/2031
CN=DigitalSign CA - G5; O=DigitalSign - Certificadora Digital SA; C=PT	7AA50B4EACCB422A19EF8597A71D56CB8E6910CFA4DD9BDDFAB1EFE7BCB7801F	7/7/2021	7/6/2031
/C=US/O=DigiCert, Inc/CN=DigiCert QuoVadis TLS ICA QV Root CA 1 G3	C42A4D8C0904BB211906F43B441BBBC9B5A003BA3611879FD34AE576F7C2F764	1/6/2021	1/4/2031



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=DigiCert, Inc./CN=DigiCert QuoVadis TLS ICA QuoVadis Root CA 2	673E8FEEB1168277D0153111D20ED38E9DA51F440BE7FD50B218540937741A48	1/6/2021	1/4/2031
/C=US/O=DigiCert, Inc./CN=DigiCert QuoVadis TLS ICA QV Root CA 3	D8CC89C6AA6B7452881907927C81E66DA01A7598CF7674E4E2E133F16546D5F0	1/6/2021	1/4/2031
/C=US/O=DigiCert, Inc./CN=DigiCert QuoVadis TLS ICA QV Root CA 3 G3	728E4BD2B399840E9D437AF975B0198910B4129B7AB708CB5C0B445D3B04D999	1/6/2021	1/4/2031
/C=US/O=DigiCert, Inc./CN=DigiCert G5 ECC SHA384 2021 CA1	4E1AB9F0122809E2A8E93133187AF26E71C9C3BF86971065D578FC4C08AF79	3/11/2021	3/10/2031
/C=US/O=DigiCert, Inc./CN=DigiCert G5 ECC SHA384 2021 CA1	7A2311B472B99171164FFA0BCA3FA7AC9AC46D035657BFC1EA133095C9703933	4/14/2021	4/13/2031
/C=US/O=DigiCert, Inc./CN=DigiCert G5 RSA4096 SHA384 2021 CA1	A11C3BC528FFE2BCEC915A5B3437D4269AD74156E0166B47A1D5F141735104FD	4/14/2021	4/13/2031
/C=US/O=DigiCert, Inc./CN=DigiCert G5 RSA4096 SHA384 2021 CA1	C68B6C455593E7CE57383A736517CA46FE86641E46BDFB25C12E41E17DE53B59	3/11/2021	3/10/2031
CN=WFA Hotspot 2.0 Intermediate CA; O=Wi-Fi Alliance; C=US	FEA342D00D1A355CF51569EF7E0F617ABB0F22D6D1E73DAA11DCB4D407975543	11/25/2013	11/25/2023
CN=KibsTrust Certification Authority; OU=Symantec Trust Network; O=KIBS AD Skopje; C=MK	FE56D842A2A2B903E050971480E7DEA2CD85E427F367150BC449C640C3B0245B	10/13/2015	10/12/2025
CN=DigiCert ECC Extended Validation Server CA; OU=www.digicert.com; O=DigiCert Inc; C=US	FDC8986CFAC4F35F1ACD517E0F61B879882AE076E2BA80B77BD3F0FE5CEF8862	6/21/2016	6/21/2031
CN=TERENA eScience Personal CA 3; O=TERENA; C=NL	FDA947208BFA3203A6C57B8714A647B7009E5168E88951345450B1D2D3F91A7D	11/18/2014	11/18/2024
CN=Telenor Norge AS Test OTL CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	FD9A6C86AE90E3F7D5511EF968357B0D0D74FEC0C71C037CC9B29F3F2940F9F9	4/5/2012	4/4/2022
CN=Object Signing CA; OU=VeriSign Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Oracle Corporation; C=US	FD70A50412710BB79FB42BD39785DC4780ED732A158296251A6DAFBC0602698	8/11/2011	2/6/2021
CN=RapidSSL TLS ECC CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	FC16D53203BD9187D69CC99D2DA551076B4DCB298140D6751F7A012966C99FDD	11/2/2017	11/2/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=GeoTrust EV ECC CN CA G2; O=DigiCert Inc; C=US	FC01B58FC78B9C59211784C2E25BF1D012A1E23F337218847A62EB4145EE4AB6	3/4/2020	3/4/2030
CN=Plex Devices High Assurance CA3; O=Plex, Inc.; C=US	FB6060848440AA4594FE8109741EFAB40C56732B26C67C36D6DC945BB2FE13CF	9/24/2020	5/19/2025
CN=DC Government SHA2 Assured ID Intermediate CA; OU=Office of the Chief Technology Officer; O=Government of the District of Columbia; C=US	FB1147E7AB97A29BB9C1140ABF3DE831F4C5F60D11B90FEC999A0816375D8457	7/13/2017	7/13/2027
CN=DigiCert Baltimore CA-2 G2; OU=www.digicert.com; O=DigiCert Inc; C=US	F9690880819F06CDCC0B2F224B207F2AF6003FB57339B8679A160FA95208D62D	12/8/2015	5/10/2025
CN=Blue Cross Blue Shield of Florida CA G2; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Blue Cross Blue Shield of Florida; C=US	F85A6F15474371B4CACB753CC09C3BED7139E9C35B21E95771C227297FF025E2	3/1/2011	2/28/2021
CN=Hostpoint TLS RSA CA; OU=Domain Validated SSL; O=Hostpoint AG; C=CH	F7FBDEB82BE99D41CDCA419FC91859D3E5286C076204E0E903D678BB213ED89B	11/2/2017	11/2/2027
CN=GeoTrust Primary Issuing CA; OU=www.digicert.com; O=DigiCert, Inc; C=US	F7A84E24E8E0D89154874721C5B641F48A1EF0FF3B198F53BE021DB53F097BD0	12/8/2017	12/8/2027
CN=OFAC VPN CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=OFAC Societe Cooperative; C=CH	F7720B968EE05292842A5AA13F4DB9A02F67DADC7340CDC28A17BEB1AA5A7322	9/6/2011	9/5/2021
CN=DigiCert Global CA G3; O=DigiCert Inc; C=US	F7541CF69D1DE1AC953ABC1FAD6F7807A34EDFE9E12C11E66A195930C23AD6C6	8/1/2013	8/1/2028
CN=Thawte EV ECC CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	F74C3B2C7E455D654D9EE5AAA712789CCB267B961C1A1CE48A69C860CD193678	11/6/2017	11/6/2027
CN=WoSign EV Code Signing Pro CA; O=WoSign CA Limited; C=CN	F6DFDED61FF88EF10B9E6DCFBCE0F1615E05866CEBAFCD6D48AEE80132C70347	5/23/2017	5/23/2027
CN=thawte Primary Issuing CA G3; OU=www.digicert.com; O=DigiCert, Inc; C=US	F6CF5D6FF850D14DB082CC9CF7C056BC60E36B1E54F1CCA3E24BDF393948978D	12/8/2017	12/8/2027
CN=Symantec Web PKI RSA Root - G1; OU=Symantec Trust Network; O=Symantec Corporation; C=US	F6BB5B7985A8736594C14679FA31603814502AAEB5F4282A69985DC84A450777	9/21/2017	9/20/2042



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Secure Site CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	F614AE2B101484F15F66F4DDA56EE6EB422728F179D94399EDE19AC1D85A8BD3	6/20/2019	6/20/2029
CN=Thomson Reuters - LEDO CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Thomson Reuters Holdings Inc.; C=US	F5DF7A85240E93C602EE9C6F77C2B126C7A37CED8F34DD714B82C47F31F3544D	12/20/2016	12/19/2026
CN=SecurityMetrics DigiCert CA; OU=www.securitymetrics.com; O=SecurityMetrics; C=US	F32DEAF22CE724661F53D5287311AFF2541EB38ECAFA49DD877B94023E3A11B1F	10/30/2012	10/30/2022
CN=DigiCert Trust Service ECC CA; O=DigiCert Inc; C=US	F269AC00B410003F72DC628AFB3D950279630C7C5D0C82148A0FD24DF4DA4301	3/4/2020	3/4/2030
CN=TrustAsia ECC OV TLS Pro CA; O=TrustAsia Technologies, Inc.; C=CN	F1CACA6AB2350A7668C13E41960908681DAFCC7E368DCB8D47FEFCF9631390481	4/27/2018	4/27/2028
CN=DC Government SHA2 EV Intermediate CA; OU=Office of the Chief Technology Officer; O=Government of the District of Columbia; C=US	F12241EE34C03A608D34DBC0EA465E1BD1AA13091554F9D4D086253FF3CE83D4	7/13/2017	7/13/2027
CN=DigiCert Federated ID L4 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	EFB2A3F37273D3589047919825EA5337E9B938A8C178B61C18C2B4270B9665AC	10/30/2012	10/30/2022
CN=DigiCert Secure Site Korea ECC CA; OU=www.digicert.com; O=DigiCert Inc; C=US	EF9138993654DF92D2FB5860E28DE8818A9F49DB56ECB689A67A7FC2D5881DD2	3/25/2019	3/25/2029
CN=DigiCert EV Code Signing CA (SHA2) G2; OU=www.digicert.com; O=DigiCert Inc; C=US	EDCD88B6BD77FC8A2680E2ECB8FFBAC45898DFA0FDE983425E0F1BEB058C04B6	7/18/2018	7/18/2028
CN=ADACOM Class 2 CA - G4; OU=Symantec Trust Network; O=ADACOM S.A.; C=GR	EC28782BFDB997875946D078C3A9C6481D34D5F775D29F0F8CB80010C9331398	12/9/2014	12/8/2024
CN=DigiCert Federated ID US L3 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	EB84FC0B403D9B689297A5D83EA186838E3B777BC618EFDA162A75B7FEA666C1	1/8/2014	1/8/2023
CN=MHIN Direct CA; OU=www.mhin.com; O=Michiana Health Information Network; C=US	EAEFFB08D568E7F6CF6D892CAB6A22E14F20C6F10E3A418CFB42B12309333367	1/8/2014	1/8/2024
CN=MSC Trustgate.com Class 2 CA - G2; OU=Symantec Trust Network; O=MSC Trustgate.com Sdn.; C=MY	EACB06CBB7B251C6BF464DB4B670DCCDC9254C9AF3938C110CEE74D00EA0A263	9/29/2011	9/28/2021



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Enterprise Services CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Adobe Systems Incorporated; C=US	EA78912AE2E15549DDA02D74CC05A18DADC218DD05C13F045B26433D23732F33	10/16/2012	10/15/2022
CN=Thawte EV ECC CN CA G2; O=DigiCert Inc; C=US	EA1F3BFB4D3296B467D4B582559D6518D676D5AFC7D1C24BE80252F79191046F	3/13/2020	3/13/2030
CN=DigiCert High Assurance Trust Service ECC EV CA; O=DigiCert Inc; C=US	E9529B428FB67390BC6455D79BA2434E816C54FE4F359930CB709DB256FDDF94	3/4/2020	3/4/2030
CN=Symantec Class 2 MPKI Individual Subscriber CA - G3; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Symantec Corporation; C=US	E79BACE9FF58B8EE6D3BD94AE8ADB13DF42DFD86B3701BFF8EDFF5C4E84BAE91	11/15/2016	11/14/2026
CN=RapidSSL TLS DV RSA Mixed SHA256 2020 CA-1; O=DigiCert Inc; C=US	E6FA484A858940D101978555454AA466531AB6C4ABC4AD2B000626AAAC0D04F9	7/16/2020	5/31/2023
CN=OFAC VPN CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa(c)11 , Class 2 Managed PKI Individual Subscriber CA; O=OFAC Societe Cooperative; C=CH	E67E5B407C8B01698049F45F3A6F7721A68FE125C1275989460AC14C10E61BAC	9/6/2011	9/5/2021
CN=DigiCert Assured ID Code Signing CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	E57208CBFD286CE9718267E44491CB5B435C95BB09DC9720F5B64B25AC7974CD	2/10/2011	2/10/2026
CN=GeoTrust RSA CN CA G2; O=DigiCert Inc; C=US	E3C24279DD6A337F881B1BC692E878F4A31AFE95851F208F94800B0C24D88C38	3/4/2020	3/4/2030
CN=MRO Direct Intermediate CA; OU=MRO HIE Solutions; O=MRO Corporation; C=US	E25DE970AA8B685CDF55417897F65DE64C63A55D61EE9E4B830261DCFBFFFB4	10/21/2014	10/21/2024
CN=TERENA eScience SSL CA 3; O=TERENA; C=NL	E1BE6BBBB70F5A241E736FC44C6A2160BF6CE19B95EDD67BF7BE896E83778745	11/18/2014	11/18/2024
CN=Symantec Class 3 Secure Server SHA256 SSL CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	E0898AD662474B9F753C79BEA878031C9A5D634A49EDD6310B960AB023C02C0E	4/9/2013	4/8/2023
CN=Symantec Basic DV SSL CA - G2; OU=Symantec Trust Network, Domain Validated SSL; O=Symantec Corporation; C=US	DF583E3A1ED35E57D95104817AD823C055FB9071CD400435B5FC74E692081DB	6/7/2016	6/6/2026
CN=Enterprise Premium Public CA; O=Mitsubishi Electric Information Network Corporation; C=JP	DF025DCE2A36411BE5EB6590C161EFD2652EC2B3F70D5C651F90D023C46F3A00	6/9/2020	6/9/2030



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Aetna Inc. Secure CA2; O=Aetna Inc; C=US	DDCBB4F3051D6E601310EB0E46B5BB99C5E8B99F7A539E367A987DEA030E318E	9/24/2020	12/9/2024
CN=TERENA Personal CA 3; O=TERENA; C=NL	DD4E0C17900F3FC2A5B7B773AE40218AD73216B5CE5D285EBFFCE8830D0F034A	11/18/2014	11/18/2024
CN=DigiCert High Assurance CA-3; OU=www.digicert.com; O=DigiCert Inc; C=US	DCB400ACC249FB8483415FC2650BC90488CA96643118CB0E4F4424B21C3AA5A4	10/12/2011	4/3/2022
CN=APMM Certificate Authority; OU=VeriSign Trust Network; O=APMM A/S; C=DK	DC6E4F6022E9FCC946BC7D36EEC384666B644C087196399E5A2DA96FF1159045	9/22/2011	9/21/2021
CN=KIBS Verba CA; OU=VeriSign Trust Network; O=KIBS AD Skopje; C=MK	DC6D1DAF475DD116449FDF69FE8DE710698854292A1767DC73364644A5B345AE	2/23/2010	2/22/2025
CN=TrustAsia OV TLS Pro CA G2; O=TrustAsia Technologies, Inc.; C=CN	DBDFA91ACC4DB8AD83FCC7978E35D62F6E32E55108273C8EC998E3133580D664	6/20/2019	6/20/2029
CN=Abbott Laboratories Secure Authentication CA; O=Abbott Laboratories Inc.; C=US	DB99A4F284CCF10B26DE7B7A5D651725B857CBC871EBB33028D67B55510EFC9D	8/23/2016	8/23/2026
CN=Rush Health CA; OU=Orion Health Direct Secure Messaging; O=Rush Health; C=US	DB12B1D3F8CC52FFF4874F0A8B85E9FB6A2050861B1B1C61481A743AC0D33D5A	4/23/2014	4/23/2024
CN=DigiCert Extended Validation CA-3 G3; OU=www.digicert.com; O=DigiCert, Inc.; C=US	DA7E5778F62F87655B8FD24A89E651E57329DC9C0765A71158CE56443CA44E95	11/12/2019	11/12/2029
CN=Secure Site Pro ECC CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	DA3BE2B6A6D9715C1295A42BE526E0001D10E5D7540F06E7631B34E644934848	6/20/2019	6/20/2029
CN=Telenor Norge AS Test NF CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	D9E9093FBD728E05240FDB4D0DF46B7BEB9AB7E9554D30CB49D4681D6344C75F	6/19/2012	6/18/2022
CN=Bridgewater Associates CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)10, Class 2 Managed PKI Individual Subscriber CA; O=Bridgewater Associates, LP.; C=US	D8E79EBED997B764E6D0DF624F2DBB4EFF2A1B6049C6F1A1A1E88263C43DB221	10/12/2010	10/11/2020
CN=GeoTrust ECC CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	D8E269A6EB08CBC337AD6578C72135787484C99D2FB08CCED029E806BE1040FC	11/6/2017	11/6/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert TLS Hybrid ECC SHA384 2020 CA1; O=DigiCert Inc; C=US	D79A2D5E03295C0E9FEAE36D021EBD5209700AB1A9E817A43F30FA3C66F78D21	9/23/2020	9/22/2030
CN=DigiCert Assured ID TLS CA; OU=www.digicert.com; O=DigiCert Inc; C=US	D7737E5F2D3FFCA429902E9F388CFD6C5959CD35A0FC103CEE2F7E93D1C66A52	2/9/2018	2/9/2030
CN=Thawte Class 3 ECC CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	D7642057CA17E00635CC41053F14919984888E6570BE2D966A1FAE83A64A4E30	11/2/2017	11/2/2027
CN=Symantec Japan Class 1 CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	D6A3574E4C2AA2D15397D5A9BEFCF8380910CC0148BAB86A0B9FF40E2659BCE8	4/15/2014	4/14/2024
CN=DigiCert Basic EV ECC CN CA G2; O=DigiCert Inc; C=US	D619F3257B98756D28811D3CEE9ADAD8BCAE1B4367BBB0C73F6B5E558FBA4563	3/4/2020	3/4/2030
CN=Adobe Analytics - DigiCert CA; OU=Adobe Systems Incorporated, DMBU; O=Adobe Systems Incorporated; C=US	D5C009312F845C5EC8506EAD560D62447BFF4A60A9C25210511217AD6DE76AED	4/18/2013	4/18/2021
CN=ALPHA BANK CA - G2; OU=Symantec Trust Network; O=ALPHA BANK; C=GR	D4F4E97198211E5D9E80284EE4DFA1CEBF4DFCABFDD3265FCF3D642512D4FCC7	7/12/2016	12/7/2024
CN=DigiCert Baltimore EV CA; OU=www.digicert.com; O=DigiCert Inc; C=US	D46931E0182DD655EA0C16E6DD99F8E61AFFE401F734C6CA8EA0056A968EAF81	10/14/2015	5/10/2025
CN=Fannie Mae Shared Online CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Fannie Mae; C=US	D39495B310669DC6BFF57D547C53E3FF9E7B452BB609272C981F514CCA0B146F	12/20/2016	12/19/2026
CN=Secure Site CA; OU=www.digicert.com; O=DigiCert Inc; C=US	D3533B732A518A6DA68EF266085E11DFD114C0EB0092CD43530A44D54B913ED1	2/9/2018	2/9/2030
CN=Orion Health Direct Secure Messaging Public HISP CA; OU=Orion Health Direct Secure Messaging; O=Orion Health Inc.; C=US	D34138ED1458AE7DE4EDEA36ED3992E4F46E6EC9CF1E633E538DE9FF0F38F8E5	10/22/2013	10/22/2023
CN=KeystoneHIE KeyHIE CA; OU=Orion Health Direct Secure Messaging; O=Keystone Health Information Exchange (KeyHIE); C=US	D1C2009D472835AFBA94CC8ACB06DD0C727138AE1E73834394D27B0C06CF1265	8/19/2014	8/19/2024
CN=TrustAsia OV TLS Pro CA G3; O=TrustAsia Technologies, Inc.; C=CN	DOE8A51ACAAB9AF82767E2EF16543C2CC635551B5DE0DAE25D6AAC71E7862870	3/13/2020	3/13/2030



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Brown Brothers Harriman & Co. CA - G2; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Brown Brothers Harriman & Co.; C=US	CFBF988B04B41842824B287999092EB3AB6CD8DFCEB49BD3D5D48345A5B4818B	2/8/2011	2/7/2021
CN=Wells Fargo Public Trust Certification Authority 01 G2; OU=Organization Validated TLS; O=Wells Fargo & Company; C=US	CF7CFA4F9DBCCBCA6D20EFDEBEAD4E173B34E76BDA1EB1E619F44E06E95FC208	11/15/2017	11/15/2027
CN=Symantec Class 1 Individual Subscriber CA - G4; OU=Symantec Trust Network, Persona Not Validated; O=Symantec Corporation; C=US	CF47B370761E9CA40096CDBD80C34B61429957E410780339A0D005D73E371204E	9/1/2011	8/31/2021
CN=Attorney Generals Department Public CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Attorney Generals Department; C=AU	CEF711147D8B0A1DC5200B8383BED23C1D294F2F89EBFE179D2501EA5E24AB8A	7/21/2015	7/20/2025
CN=A.P. Moller - Maersk Certification Authority; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=A.P. Moller - Maersk A/S; C=DK	CDC453969304BEE6A58D9BABC0AAC4C4CE2156A1C172A2585E546079144E4E58	5/3/2011	5/2/2021
CN=Cisco Meraki CA2; O=Cisco Systems, Inc.; C=US	CDBCBEF16E37237702FACC4B55D3AB92A17CFA17835E13377AA4D2BA0FD47A02	9/24/2020	7/12/2026
CN=Corepoint Direct Intermediate CA; O=Corepoint Health; C=US	CD2640957CF88610470CEFD409D85D9BE05962F7D6C2999C4F431ABCC34118C	1/14/2015	1/14/2025
CN=Mirth Direct Intermediate CA; OU=NextGen Share; O=Mirth; C=US	CC9FAAD83C3350943D4E45FA416C4F8BC564F7AA94CF4B2D2BCE74209D0464C9	9/26/2014	9/26/2024
CN=DigiCert Class 3 ECC CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	CBAE2767EE8CD7FB49B662B422F721DB4522EB674CDBF16CB6209E45CC4CB99E	11/2/2017	11/2/2027
CN=DigiCert Basic RSA CN CA G2; O=DigiCert Inc; C=US	CB57B3FF2040CB269497625BC90FA9D7B4ED4938C6F60F42F69AFDF508AC2993	3/4/2020	3/4/2030
CN=Symantec Class 2 Shared Intermediate Certificate Authority; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Symantec Corporation; C=US	CB387E392A90E8B1A382BE8EDB9E7B2943E9002F73A563F18B06142218F1118C	3/3/2011	3/2/2021



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=IBM Certification Authority G3; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=International Business Machines Corporation; C=US	CB16C58F10AFFDA46A0FC05BF49F0B707C579EC52E3527EEBA0448F9B8C16E99	11/10/2016	11/9/2026
CN=KPN Class 2 CA; OU=Symantec Trust Network; O=KPN B.V.; C=NL	CABB66C975781962D732B9312EF3908CA3ED6F5CBB76D6322E5EA2B47836F4D3	2/11/2016	2/10/2026
CN=DigiCert Federated ID L1 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	CAB016C5EA32061BD065FE13A55A40FA61058B27B34A7F8D175F7101EE063E3B	10/30/2012	10/30/2022
CN=TERENA SSL CA 3 G3; O=TERENA; C=NL	C9D6913F3FEDDEFF184C9EE1D7E17C5AEC90886EED5CC3D6E98105831C8C0E0B	12/9/2014	12/9/2024
CN=Autoridad Certificante Banco Itau Argentina - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Banco Itau Argentina S.A.; C=AR	C951DAECBDC59763C6681825DBED0780C3E8921E1E76E9AAD3146F1B0C18F9B9	1/19/2016	1/18/2021
CN=GeoTrust EV CN RSA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	C87CE03AFFB5DE6319C219971F2ED2D8F6F5389E2D53B22DD2C562A5C9827FC0	6/20/2019	6/20/2029
CN=Autoridad Certificante CertiSur; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=CertiSur S.A.; C=AR	C856F854F6FC94EC4D496E6CDAE6C66AA2D8CAFDBF87C928B9898E327B962A3F	4/28/2016	4/27/2021
CN=RapidSSL RSA CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	C790B47128447EC0B60F22BFCB795D71C326DD910EE12CBB4CC5A86191EB91BC	11/6/2017	11/6/2027
CN=Telenor Norge AS OTL CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	C7367403CF6D5C13D9690187926EF896CE6E74135080C9AFD8C8B1532467AE50	4/5/2012	4/4/2022
CN=DigiCert Provisional Direct Med CA; OU=www.digicert.com; O=DigiCert Inc; C=US	C61029C8EEE3CE08755D562BB50C5F75E0EF849214970B13BD99185367D1D119	6/3/2014	6/3/2024
CN=North Carolina Health Information Exchange CA; OU=Orion Health Direct Secure Messaging; O=North Carolina Health Information Exchange; C=US	C4A842434ADB52809526B6D1E869A265F535B69BB16454A301667CC942678D58	3/5/2014	3/5/2024
CN=NRC Basic CA G2; OU=External Basic; O=U.S. Nuclear Regulatory Commission; C=US	C40D6AB75F7E5D11CF7B0404AC7E4321A7A8B0DDF7631328F3D7CC80D6644E2B	3/21/2013	3/19/2023
CN=Oracle Root CA; OU=VeriSign Trust Network; O=Oracle Corporation; C=US	C40469CF7C6561AF3288E2FFDD439AC4F0C9CEA933597C07D0D510FC820282AD	2/8/2011	2/7/2021



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Secure Site Pro Extended Validation ECC CA; OU=www.digicert.com; O=DigiCert Inc; C=US	C3804DE51E8C17052220AE1CAD3D383E54D5B7DC28843C42F0DBD9913C1E8658	4/27/2018	4/27/2028
CN=Cybertrust Japan Secure Server ECC CA; O=Cybertrust Japan Co., Ltd.; C=JP	C3683F7D91754219DADA4E8DC30E4B18BD3928B53D3AB93D07384BC5871CE355	7/13/2017	7/13/2032
CN=E-Sign SC Class 2 Consumer Individual Subscriber CA - G2; OU=Symantec Trust Network; O=E-Sign S.A.; C=CL	C34A5709122DC9EAF3021B979D4843FBB41C5B24326BECE84D2F686675A1B6EC	11/15/2012	11/14/2022
CN=DigiCert Assured ID Intermediate CA (SHA2); OU=www.digicert.com; O=DigiCert Inc; C=US	C2B4BBEF4A1A643F334ED0850F928876D2AE3AE3642B986014D68C673C04D081	12/7/2011	12/7/2026
CN=DigiCert SHA2 Secure Server CA; O=DigiCert Inc; C=US	C1AD7778796D20BCA65C889A2655021156528BB62FF5FA43E1B8E5A83E3D2EAA	9/23/2020	9/22/2030
CN=Postecom CS4; OU=Servizi di Certificazione; O=Postecom S.p.A.; C=IT	C1685683F3C8590E88580197F219CAB99E5482A1568635F596D09867B2F405BD	4/26/2016	4/26/2023
CN=TERENA Personal CA 3 G3; O=TERENA; C=NL	C123F5AFACC9F9096809850355E5BF78CA9377348111B5167A964DDEDC044DE9	12/9/2014	12/9/2024
CN=PT Astra Daihatsu Motor CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=PT Astra Daihatsu Motor; C=ID	C0F393D5027D52A5643A2E38D4F79B1D958D40FB6CDF1AC2571CE61004BDEED26	5/31/2016	5/30/2021
CN=TrustAsia ECC EV TLS Pro CA G2; O=TrustAsia Technologies, Inc.; C=CN	C0DD060FF8CE556F35683D564E0E66B2907178808693F83F3AA642326BF6D0C8	6/20/2019	6/20/2029
CN=DigiCert High Assurance CA-3; OU=www.digicert.com; O=DigiCert Inc; C=US	COA4A1AC05E03096A3B2AB8A38502B39E2614E11397BEE73D0A66B8ACEF7A283	4/3/2008	4/3/2022
CN=Indian Health Service-RPMS DIRECT Messaging CA; OU=directihs.net; O=Indian Health Service; C=US	C07E9037CB81012D3046613285C14B63A0284964A4F5A821FC3B18ECDEBA0A66	4/4/2014	4/4/2024
CN=GeoTrust TLS RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	C06E307F7CFC1D32FA72A4C033C87B90019AF216F0775D64978A2ECA6C8A230E	11/2/2017	11/2/2027
CN=DigiCert Secure Site Korea EV CA; OU=www.digicert.com; O=DigiCert Inc; C=US	C022D5CEAA275F2A6268FA79AC35653B3A730DEFA41F9CD8817D6D159BD33097	3/25/2019	3/25/2029
CN=Axession Direct CA; OU=www.axession.com; O=Axession Inc.; C=US	BF4655F16AA338D7C7FF2BDC949A524BD4797B8B3C8341C608C9F65CB1CB8177	1/8/2014	1/8/2024



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=GeoTrust EV ECC CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	BF3558F877E89D27DAA60DA9671676570DFBEB215D84AC5A37122D6776B78F6E	11/6/2017	11/6/2027
CN=DigiCert Baltimore CA-1 G2; OU=www.digicert.com; O=DigiCert Inc; C=US	BF1CB0E213D8D3C70BAE89429FC16DE2C74F755963D1B9B488BD0260DBC91B9C	10/14/2015	5/10/2025
CN=TERENA SSL CA 3; O=TERENA; C=NL	BEB8EFE9B1A73C841B375A90E5FFF8048848E3A2AF66F6C4DD7B938D6FE8C5D8	11/18/2014	11/18/2024
CN=DigiCert High Assurance Code Signing CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	BEAF46D0FF62645F56BE11830DDEFC663379619F337E85713491C83AE179481D	2/10/2011	2/10/2026
CN=TERENA SSL High Assurance CA 3; O=TERENA; C=NL	BE6A0D9E1D115F2293F6ABF11B3EC8E882E24426EEEB09AAA503597993E77A25	11/18/2014	11/18/2024
CN=E-Sign C2 Firma Electronica Avanzada Consumer Individual CA G2; OU=Symantec Trust Network; O=E-Sign S.A.; C=CL	BE4D872225F013B6E17595AA29F3C0B9F85C403E6C9B483550B069E4A2F47BFE	11/15/2012	11/14/2022
CN=SCF Arizona CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa(c)10, Class 2 Managed PKI Individual Subscriber CA ; O=SCF Arizona; C=US	BE3A962B7AF931D7ADFAF7452FE85270020EF853A5DD334AED80D29E892F0391	11/11/2010	11/10/2020
CN=Sydney Trains CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Sydney Trains; C=AU	BD80A335B5EBB7279960E0B5802257C256062895F33D3DCBC0B7CB7199DFA75F	11/24/2015	11/23/2025
CN=AlwaysOnSSL TLS ECC CA G1; OU=Domain Validated SSL; O=CertCenter AG; C=DE	BD193C475E4E67938BEF34122B98B558A2882E7ED94369A6CB011320EF15623C	11/2/2017	11/2/2027
CN=DigiCert Secure Site Pro EV ECC CN CA G3; O=DigiCert Inc; C=US	BC91379A21E7BDE11B455BF1D51186331682805A4A353A8EE258F7A03706C664	3/13/2020	3/13/2030
CN=Telenor Norge AS EDC CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	BC8EB15B0FEE05D953758E1D2C29A9E7D1E1B5AFD5659AB95E981F6F75BD1D71	9/3/2015	9/2/2025
CN=Blue Cross and Blue Shield of Florida CA G3; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Blue Cross and Blue Shield of Florida, Inc.; C=US	BBCA83E909A956AA38BA04EA5FC6A6A13F99495DA1E23981BE5BEDE03970450A	5/3/2016	5/2/2026
CN=Riverbed Certificate Issuer; O=Riverbed Technology, Inc.; C=US	BB39497035ED9583D286CDE70FB644EB95806598092B1E8D8F11BC035D7A476A	11/20/2018	11/20/2028



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=AAMC Direct Intermediate CA; OU=AAMC Direct Messaging; O=Anne Arundel Medical Center; C=US	BB1C01E884DD0919AB94D5AF5575CD6FEB71E560B2B58735A78B150A10D54BF3	5/28/2015	5/28/2025
CN=Secure Site Pro CA; OU=www.digicert.com; O=DigiCert Inc; C=US	BA6A0C1170E1C7323860749B5E7B0ED365975D8FC90740B15D70F843A2394942	4/27/2018	4/27/2028
CN=DigiCert TLS ICA VRSN Universal; OU=www.digicert.com; O=DigiCert, Inc.; C=US	BA5B6E5DFEBDAE1C80BD72790BC85BCC6538AB4613023DA706CE826415F5E5B3	1/17/2019	1/16/2029
CN=DigiCert Global Client CA G3; OU=www.digicert.com; O=DigiCert Inc; C=US	BA361260FF1D46031686305E082DE836D4A320466E0DE9E013F00CEDDD62317	9/23/2019	9/23/2034
CN=Goldcorp Class 2 Certificate Authority; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Goldcorp Inc.; C=CA	B97867E65B805D78153D5349389C7E54695A45DDB2A4A015CAD8069C63FCF669	9/15/2011	12/31/2021
CN=TrustAsia DV SSL CA - G6; OU=Symantec Trust Network, Domain Validated SSL; O=TrustAsia Technologies, Inc.; C=CN	B90E17AB4B8778B10F9F28CBAA7664DE2EE3D66E1AFC574D168EDD24A10339FF	8/11/2016	8/10/2026
CN=DigiCert Assured ID CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	B8F44E4B1F8697DF54BB3D0F1E67596CE2FE9DABA85AF4E6F2A2E74396F8C56D	11/10/2006	11/10/2021
CN=Collaboration Certification Authority; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=HP Inc; C=US	B864FF6DE0CB1BEAF6AA5C68DB8769C91F18E1721E22AC3ECDD91C0889D77078	6/11/2015	6/10/2025
CN=idOnDemand CA G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Identive Group, Inc.; C=US	B812A3156BBB9F0AABF8F36BE72A95388936272070C4860DBDD4955F0D59B486	9/5/2013	9/4/2023
CN=NCC Group Secure Server CA G4; O=NCC Group; C=US	B7DFDC27E5FF9F35EFEC9F4BC532C35F727789B69C90A0489B40247299D97038	7/30/2014	7/30/2029
CN=TERENA Code Signing CA 3; O=TERENA; C=NL	B7C6EBDC2A1B65EF1836DC00250C44E15703121052C1AB6B9D0385A058153AE3	11/18/2014	11/18/2024
CN=DigiCert Secure Site Pro EV CN CA G3; O=DigiCert Inc; C=US	B75AEE9836FEFBC446F288A2970B84FC60AAF9EFBD2CB9F82F7581790DE4B8DC	3/13/2020	3/13/2030
CN=Secure Site Extended Validation CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	B6EB4F8AD197073FE5203F8FCEBFD5C509CDE9CA3AA65EC59D203831424192D4	6/20/2019	6/20/2029



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=CompuGroup Medical Certificate Authority; OU=IT; O=Compugroup Medical, Inc; C=US	B604026A3590392ABEFB6B18E8176453656115D2A0060F713E191A9FD076532A	12/8/2015	12/8/2025
CN=DigiCert Trust Service ECC CA G2; O=DigiCert Inc; C=US	B5FECC2F696C850323FC7A85C65B50A4C5E1BFBF823E266AB0A46F013B2C0EB2	6/12/2020	6/12/2030
/C=US/O=Imprivata/OU=www.imprivata.com/ CN=Imprivata Secure ID CA-1	B49B1B7209D1A83F6CDBBA743AD720ACC24440FB9002F9DDB3C6F2F5CE337A47	10/25/2016	10/25/2026
/C=US/O=SAIC/OU=PKI/CN=SAIC Public Email CA 2018 01	B4739E90912D31F2829F69D60F62C5954DC98EEF9A7EF3477447692C4A440D65	2/9/2018	2/9/2028
CN=DigiCert Basic EV RSA CN CA G2; O=DigiCert Inc; C=US	B41A4864F0D4EC4EA632D01B3E7F232775E55E22B3BFD8642EE1292280D0E47A	3/4/2020	3/4/2030
CN=STRATO RSA CA; OU=Domain Validated SSL; O=STRATO AG; C=DE	B2BB26D271DC82BB647354B6F718D0ABF1B4D67411A0EDAFF1AA959BE5DED37E	11/2/2017	11/2/2027
CN=Secure Site CA; OU=www.digicert.com; O=DigiCert Inc; C=US	B26EB310F8FAF0EF5B0D0B71AA65EC050FA3ADE29134FB438AB6440288FA6E67	5/17/2018	5/17/2030
CN=Trust Provider B.V. TLS RSA EV CA G2; O=Trust Provider B.V.; C=NL	B23A29C312A7A80B0FE6B4E71B909CAE92AD649E88766E56C9EE8E1D7C013945	2/21/2020	2/21/2030
CN=Encryption Everywhere DV TLS CA - G2; OU=www.digicert.com; O=DigiCert Inc; C=US	B1AC8CFB181B9C9354E1775FCBDFCFE7898C5CC9A17D76315B57C112EEE55234	11/27/2017	11/27/2027
CN=DigiCert CN RSA EV CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	B131905CC7221270613B529AC9E786AA230ABFE154A0ACBE452BC350BD1EFE4B	6/20/2019	6/20/2029
CN=DigiCert Secure Site Korea EV ECC CA; OU=www.digicert.com; O=DigiCert Inc; C=US	B0505BF2947F0807ABAE2D42C19343EAF08D1DDE3F8745B0589A57362792E470	3/25/2019	3/25/2029
CN=Cosapi Data Public CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Cosapi Data S.A.; C=PE	AFCD78EBA95C0801A2FEBAE6F695D469AF346215C5A3E554F161D23C4BB40F91	5/12/2016	5/11/2026
CN=Cloudflare Inc RSA CA-2; O=Cloudflare, Inc.; C=US	AEC863898F284D6CD4C6A3F6C3E6523480A359C33DAF66FAD3381849B8BB018B	1/27/2020	12/31/2024
CN=Thawte TLS ECC CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	AE82201F565E0439B7F4AD689327594EB974A4F781B1A6CBFED59BD382317F13	11/2/2017	11/2/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=ATT Services Inc Email Certificates CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=ATT Services Inc; C=US	AE7A31EB7007A6F64237387343C083D11950F1D6D546EDDAD8B5AA3DAC30B70C	3/3/2016	3/2/2026
CN=WFA Hotspot 2.0 Intermediate CA; O=Wi-Fi Alliance; C=US	AE0D0BA5AC3EEB823F5CA77331A99D7FDB2EC231D7CE47B7C208E3830E08A891	12/9/2013	12/9/2023
CN=Thawte CN RSA EV CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	ADA188F830C313F6046488EC341F1ED4AF793C6DC28C58600445DFBEB4163746	6/20/2019	6/20/2029
CN=DigiCert Secure Site Japan CA; OU=www.digicert.co.jp; O=DigiCert Japan G.K.; C=JP	AD14A68BEC949E84F6063419D63465D137C2ADD3E3A85E00E9E3EE82E5B4018F	11/20/2018	11/20/2028
CN=Florida HIE Exchange CA G2; OU=Florida HIE; O=Harris Corp; C=US	AB8EE98A4B2B97E5905ECE80A64304C143AB38D9508FF7286F68235E0DB68A27	11/11/2015	11/11/2020
CN=Symantec Japan Class 2 CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	AB62A0A1DE53BA06E771438E5D0526D3D8B0235330C65AA4BF80D855908E2DC4	4/15/2014	4/14/2024
CN=Trust Technologies Global Client CA; OU=Digital Identity and Security; O=Telecom Italia Trust Technologies S.r.l.; C=IT	AA6A2380A7E8254DAD4620AE0895DE74047F33F5268758DCF27C4D280B384A50	8/24/2017	5/10/2025
CN=WoSign OV SSL Pro CA; O=WoSign CA Limited; C=CN	AA61C2927DC89DB225CA9A17D600373D058F696D86D10E2BD7B5E8F44A97EED1	5/23/2017	5/23/2027
CN=Hostpoint RSA CA; OU=Domain Validated SSL; O=Hostpoint AG; C=CH	A8C0A92B0D90E8216CCCA34C1A1683B34EB4758D460C892CA8C512A8A2ACC08F	11/2/2017	11/2/2027
CN=STRATO TLS RSA CA; OU=Domain Validated SSL; O=STRATO AG; C=DE	A8AD1C25CC580B2131FCC6FC6D6513746F38EA99BD162C81B5C5393495175B18	11/2/2017	11/2/2027
CN=GeoTrust TLS ECC CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	A838405EBB03F5DFD8D4A9572AE6E0E3F356EC4EC134375A59DB7B195DC3EC44	11/2/2017	11/2/2027
CN=DigiCert Secure Site Pro CN CA G3; O=DigiCert Inc; C=US	A66C97AE59DFF9EA015E73C744EE5520745F101A395C497D19E1F168D39AFCD0	3/13/2020	3/13/2030
CN=The Koble Group CA; OU=Orion Health Direct Secure Messaging; O=The Koble Group, LLC; C=US	A576C29481F5A2ACB1DF47500629A60F96F6ACA324E878FFDCFABD85E5649AEF	6/21/2016	6/21/2026
CN=DigiCert SHA2 Assured ID CA; OU=www.digicert.com; O=DigiCert Inc; C=US	A542BCA09C5E4579C619774AE59082BCE0F86D261C5A7A5A0F6217C10279EA7C	11/5/2013	11/5/2028



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Cal INDEX CA; OU=Orion Health Direct Secure Messaging; O=California Integrated Data Exchange, Inc.; C=US	A5226F33474B53392665298B48F4E6129824E98BD4D38DF4E31EBBCF14FA33CD	7/12/2016	7/12/2026
CN=DigiCert Secure Site EV ECC CN CA G3; O=DigiCert Inc; C=US	A4B2B47545559F5FFFB7CDDA7A1220E62FB74D1B7A9A4D4DACB2B2A839CE7456	3/13/2020	3/13/2030
CN=DigiCert Global Client CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	A449DBAB6D4C035FAAFD9D045891FE98ABD73D286268A8A83F854145551692E3	9/23/2019	9/23/2034
CN=Orion Health Direct Secure Messaging CA; OU=Orion Health Direct Secure Messaging; O=Orion Health Inc.; C=US	A4106DA85F7B34A6D3DE37884D1528916B84F046FFB7D4AAC521117B0C6995F3	10/21/2013	10/23/2023
CN=Feddersen Heuer Public CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Heuer und Partner - Rechtsanwälte mbB; C=DE	A402AA0AE53F484A07BF4E35B55D1274127650AD6145E243B719330B92B2A10A	1/5/2016	1/4/2026
CN=City of New York Office of the Actuary - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=City of New York; C=US	A3E2E9FDC693C7536CD3A9ABC8E09705C113DD391635C6239BBFF21DA258C96F	6/11/2015	6/10/2025
CN=Secure Site Pro ECC CA; OU=www.digicert.com; O=DigiCert Inc; C=US	A206644F57AFD10B94169498858981C16D633858CE0C88B57CF14FA2A92AACFD	4/27/2018	4/27/2028
CN=Aetna Inc. Secure EV CA; O=Aetna Inc; C=US	A1448A015E1399C5A891812F0E88C6D847B221D21F9326A6626BA43A0EB612D9	9/24/2020	12/9/2024
CN=RapidSSL ECC CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	A0D1523A0BF663550EB9081E9BDEEDA12814F9570B7697D95DF2EA53D4FF75E3	11/6/2017	11/6/2027
CN=BT Class 2 CA - G2; OU=VeriSign Trust Network; O=British Telecommunications plc; C=GB	A0BD4E39E6FE415F8B1ABA4773C3EA60905ED61F8EA27875CC03E9A94D441CB6	6/13/2008	6/12/2023
CN=PT Astra Daihatsu Motor CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=PT Astra Daihatsu Motor; C=ID	9FF4EC074FE370818B15ABA1BBDCB0A4DBE3F8420A993A7B5176BCC7FB4E4EAD	5/31/2016	5/30/2026
CN=DigiCert Assured ID Client CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	9E12D6E13DDD53A890A2B3A37423AE5E457731A7B34A153992F1EF1F5489A45E	9/23/2019	9/23/2034
CN=TrustAsia EV TLS Pro CA G3; O=TrustAsia Technologies, Inc.; C=CN	9DB0A20C305541E15E818A880D06579876A9C901B8EECD968482C58D9BA7F0A7	3/13/2020	3/13/2030



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=VeriSign Japan Class 1 CA - G5; OU=Symantec Trust Network; O=VeriSign Japan K.K.; C=JP	9CEBC030750F1A1BADCC06C998558AE209DFCCA68A80D38C161A85DC5AF68DD48	7/24/2012	7/23/2022
CN=DigiCert SHA2 Assured ID Code Signing CA - G3; OU=www.digicert.com; O=DigiCert Inc; C=US	9CDFD82596D1BAC9E44D3E491E2C07D8DCC920419915FD6F361CF70A1E433B10	7/18/2018	7/18/2028
CN=DigiCert Global CA-3 G2; OU=www.digicert.com; O=DigiCert, Inc.; C=US	9B2DD4FBEE941F6510F716C04969B36428892765461701EF47D41B3289475D50	11/12/2019	11/12/2029
CN=thawte Primary Issuing CA; OU=www.digicert.com; O=DigiCert, Inc; C=US	9A9FC39029ABE132D674D032D199CB8431AAC878DABCE6E9E1AECB81EC99F4CC	12/8/2017	12/8/2027
CN=Thawte RSA CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	9A5EECEE9C7D898BD81DC3BF066DAF6AEFB8DB1C59676206D2BFDD682312C6F6	11/6/2017	11/6/2027
CN=DigiCert Secure Site ECC CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	99935E20424535EC016F337B2BE68F1349DE66CCE4CA5AB367F8F3738215B833	2/15/2019	2/15/2029
CN=DigiCert Secure Site Pro ECC CN CA G3; O=DigiCert Inc; C=US	985140919342239C89086B22DFCAA4508590B11A3DE0A423E25EBC3DDAF8910D	3/13/2020	3/13/2030
CN=INTEGRIS Direct Intermediate CA; OU=INTEGRIS DIRECT Messaging HISP; O=INTEGRIS; C=US	97D276C5FDF2DC94539ABB9E17BC3995730CD51739EAE95B0F67B39E99905F11	11/18/2014	11/18/2024
CN=DigiCert Basic ECC CN CA G2; O=DigiCert Inc; C=US	97C4B44316055F26A52A1F664CE385800A964A8552C99D2BCAFD618E6D8074A0	3/4/2020	3/4/2030
CN=NCC Group Secure Server CA G3; O=NCC Group; C=US	963056B0D941D9DBE27AC778053D85E43CC79F476AD34CFDD799C27E381840EB	7/30/2014	7/30/2029
CN=DigiCert EV RSA CA G2; O=DigiCert Inc; C=US	9588EF74199E45ACEFCCFC0C47010E9F2A37A1DD44C61A4E1C6B334DA5AF614	7/2/2020	7/2/2030
CN=Thawte RSA CN CA G2; O=DigiCert Inc; C=US	95141A355A5A2AA3E011221CAB9FE73810FDB5D88135864F03E4D852BD0BBEDB	3/13/2020	3/13/2030
CN=DigiCert Secure Server CA; O=DigiCert Inc; C=US	94D4ECE2ED9A5457B969A13B260489E9A5FE4790A041F27A3EB4126C84418EF9	3/8/2013	3/8/2023
/C=US/O=DigiCert, Inc./CN=DigiCert QV TLS ICA G1	93E33AF7DA3030530D090C9C55762CADE7EAE943F834349D1057A90EB67F306B	3/16/2020	3/14/2030



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Assured ID CA G2; O=DigiCert Inc; C=US	93C381CB07B353A920C2A7BED6BEBF195C68279DD0527D37F20BDD0D99C330FA	8/1/2013	8/1/2028
CN=Thawte EV RSA CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	93569B26AA535E3E07C891C6BD2FA9DC0939C24DB4B3726AD8531EDB17C497CA	11/6/2017	11/6/2027
CN=Cybertrust Japan ECC EV CA; O=Cybertrust Japan Co., Ltd.; C=JP	92E3770B1EB44F84C2F2CB0097C2FD7126BD212B41C2610E78DDFD8946761738	8/24/2017	8/24/2032
CN=Symantec Web PKI ECC Root - G1; OU=Symantec Trust Network; O=Symantec Corporation; C=US	92BB72F15EB75DE467C84B438181034BDAE9A016EC26434BEE3C9BBAD8CD8AF0	9/21/2017	9/20/2042
CN=Fuji Xerox Businessforce CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Fuji Xerox Businessforce Pty. Limited; C=AU	92587CDC27A5C019B413AA94D21944AC8562E8DAA8C78AEA17C623D1B77714DE	6/4/2015	6/3/2025
CN=DigiCert Federated ID L2 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	91FDEB52D4265120B843B195D1B6CDB5CE61251865A45A3E920E610FDDA660D3	1/7/2014	1/7/2023
CN=Thawte Class 3 RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	8FC1C1763F6317AB09061C5A78D4E9D67001EFE0A79FE40573B048C06EB21658	11/2/2017	11/2/2027
CN=DigiCert High Assurance EV CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	8FC1469B8005BFEBDBF67F514E795FE1F17EA239A2A6934857F2428ADCE6D24F	11/10/2007	11/10/2021
CN=DigiCert Global CA G2; O=DigiCert Inc; C=US	8FAC576439C9FD3EF153B51F9EDD0D381B5DF7B87559CEBECA04297DD44A639B	8/1/2013	8/1/2028
CN=SRI International CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=SRI International; C=US	8F11E6AE162CD9472CAB0B6C023A56D8A442BD5981DD0CDBBCD5D501923223B7	11/15/2012	11/14/2022
CN=Telenor Norge AS NF CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	8DE6CA4D03ADF19A56B3CDD6DCA843C51189D0A2BB60D84B9AD01EBC741F5F22	6/19/2012	6/18/2022
CN=TrustAsia ECC EV TLS Pro CA G3; O=TrustAsia Technologies, Inc.; C=CN	8D83D69FA615AA2683B13D7894482C542B0BCF18BB92D30F015FB42471AFBB66	3/13/2020	3/13/2030
CN=GeoTrust Code Signing CA - G2; OU=www.digicert.com; O=DigiCert Inc; C=US	8D7C499D7FE9EEEC05D9EB42F03EFE402807919803E8E6CD6C1F2BF5EF6A7D8F	7/18/2018	7/18/2028
CN=AlwaysOnSSL ECC CA G1; OU=Domain Validated SSL; O=CertCenter AG; C=DE	8D7373F38E63D830C0CEAA2C33330F21A2C77408EE3CFBC595C0D2F3D32F4224	11/2/2017	11/2/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=IPsec CA; OU=VeriSign Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Oracle Corporation; C=US	8CDCB62473FE6AEA3FA7CE065BFB092D45233563C33AB16CD9985B7A0A14A07E	2/8/2011	2/7/2021
CN=CrowdStrike Global EV CA; O=CrowdStrike, Inc.; C=US	8CD728F9C3391BA4360A10C66CA484C807651D6207F10633669ED8881FE91BF5	2/21/2020	11/9/2031
CN=GeoTrust RSA CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	8CC34E11C167045824ADE61C4907A6440EDB2C4398E99C112A859D661F8E2BC7	11/6/2017	11/6/2027
CN=GeoTrust TLS DV RSA Mixed SHA256 2020 CA-1; O=DigiCert Inc; C=US	8C43C5E340EC640F93EA774AC5353CCA9042F764FF837F870D8B64763C458A41	7/16/2020	5/31/2023
CN=Symantec Class 2 Individual Signing RSA CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	8B9218D93DB5377CFE7D5923E7016D379D446F0019C47B9B4EA737AEDF86A558	1/22/2015	1/20/2030
CN=University of Houston Intermediate CA; OU=Symantec Trust Network; O=University of Houston; C=US	8AD8E95B7B83F0BC772BEBC75FFE0C51F65C77B63B0821ADC13CDC5AC9C27267	2/7/2012	2/6/2022
CN=A.P. Moller - Maersk Certification Authority; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa(c)11 , Class 2 Managed PKI Individual Subscriber CA; O=A.P. Moller - Maersk A/S; C=DK	8AA77BB7ADA3B50AFF1DDD9012C5D73B0D9F8722BEDFCEE0B1DC0ACCB0DD1E0E	5/3/2011	5/2/2021
CN=ARINC Public CA - G2; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa(c)10 , Class 2 Managed PKI Individual Subscriber CA; O=ARINC Incorporated; C=US	8A8D4CA774F54964578B371ABD8B055937E8B7A0CDB659A3150EB6488930E661	12/2/2010	12/1/2020
CN=DigiCert EV Code Signing CA (SHA2) G1; OU=www.digicert.com; O=DigiCert Inc; C=US	8A78B966C73D769040C1A81C32168CEF8B9B9E96ECC2D33CC4ABB5A0CF8C1C67	4/27/2018	4/27/2028
CN=GeoTrust RSA CN CA G3; O=DigiCert Inc; C=US	8A023C08E4A1AACCC925B34C5C7965A8D0527565AEA130ABB915E508CD33AFB45	6/9/2020	6/9/2030
CN=Optioncare CA; OU=Orion Health Direct Secure Messaging; O=Optioncare; C=US	89CFBC8FBFF7FE026B6CF2EA688419BDE8BBC1FB451329C865D6C6CBCF6BD097	3/1/2016	3/1/2026
CN=GeoTrust EV RSA CN CA G2; O=DigiCert Inc; C=US	8937E90E1495C9A78EFB18182D43FDC73FCD292AB6347A12B9077DE878530E62	3/4/2020	3/4/2030
CN=WoSign EV SSL Pro CA; O=WoSign CA Limited; C=CN	891EE2E23282E5076C9AE9047DE8EA900E066F81D6DCD9B843C59078B0F105BC	5/23/2017	5/23/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Telenor Norge AS Test EDC CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	889957D00561EF99867402A901359C772029AD43CCBE46882BF2E7193D385411	6/19/2012	6/18/2022
CN=MSC Trustgate.com Class 2 CA-G3; OU=Symantec Trust Network; O=MSC Trustgate.com Sdn. Bhd.; C=MY	885BCCECD14002A069F57E861F6919C175E791C2CA605B494DD7960684B3A093	4/4/2017	4/3/2027
CN=Honeywell International Co-branded QA CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Honeywell International Inc.; C=US	87C0BAE275BF11F25AE3290B3E810D97E8297F276C576CDAA9AEB5FAEFC4CD22	2/14/2013	2/13/2023
CN=Cybertrust Japan Issuing CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	87942388D29A46C06FE1E56AAB791594D0FB2E8EABF124048F130EEA9BEDD3FD	9/1/2016	9/1/2026
CN=TrustAsia TLS ECC CA G9; OU=Domain Validated SSL; O=TrustAsia Technologies, Inc.; C=CN	877F24CE70F4A3047E4EA70BEC1BC31BE9B6533ADFF3A393FF9BFB3C81029446	11/2/2017	11/2/2027
CN=Oregon Health Authority Direct CA; O=Oregon Health Authority; C=US	86FFEA40F36FA6913278710FEABA9B206F3288DA3FD1C652BC5B5895A2B1A877	3/5/2014	3/5/2024
CN=DigiCert Federated ID L3 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	85760F77DB0FD0D93C21EE0364B8EAB09B82CF49B7849831038209B5B1081363	1/7/2014	1/7/2023
CN=DigiCert SHA1 Assured ID Code Signing CA - G1; OU=www.digicert.com; O=DigiCert Inc; C=US	82AD46ECDE882413106B1C83EF65DC02DB0C65B3870F6F744B62283DF6FA1D56	7/18/2018	7/18/2028
CN=Allina Health Connect HIE Intermediate CA; OU=Information Services; O=Allina Health System; C=US	826C6AA610EF190BE2D7C03E22D032405B289804E3319E233C4C37FFBF305F1A	12/8/2015	12/8/2025
CN=DigiCert Class 3 RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	81E071B01F01DC43EE458C0E1BDCBC848B47462C26B4CE19EE9015416BC6DF89	11/2/2017	11/2/2027
CN=DigiCert Extended Validation Intermediate CA (SHA2); OU=www.digicert.com; O=DigiCert Inc; C=US	802C2AD1D215E57CDC9010EA437ACE399B657194FBD40E3BB5E00B080E6496DF	12/7/2011	12/7/2026
CN=Cybertrust Global Root; O=Cybertrust, Inc	802447EE521CC666CDB7BBAE93A385E55F200D76A3D1356A85445AC4CDBBED12	1/8/2014	12/15/2030
CN=RWE Dea AG CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=RWE Dea AG; C=DE	7FC6CAB96C16C850F457DCBBFB893539EA2664395F2409693789F41BFD64714E	12/11/2014	12/10/2024



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert PKI Platform Class 3 Shared SMIME Organization CA; O=DigiCert, Inc.; C=US	7F755DC2B9EE99EB02D71CB1805059AAABB5EB3E8558DCA8C09A1D0DE258D767	5/29/2019	5/29/2029
CN=GeoTrust ECC CN CA G2; O=DigiCert Inc; C=US	7CAEEC680E6497FC5109073F83816E798F27F8968A2663C1C95711B548192E35	3/4/2020	3/4/2030
CN=Honeywell International Co-branded CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Honeywell International Inc.; C=US	7C932E8709835BEC74AAB6F02E958DF70995B3FED5FE4C375D66B1228555D8ED	12/5/2012	12/4/2022
CN=Yaana; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Yaana Technologies, LLC; C=US	7C73C0E9D52BC63E713110DA4705C7CECCB4D49F1F5FED0B6D1A707E63A4E31C	1/6/2015	1/5/2025
CN=DigiCert Extended Validation CA G3; OU=www.digicert.com; O=DigiCert Inc; C=US	7C0912E5DE8478BB86E8EA46BA5AE65DC3870BCEFCBC2F46795EEECF648CFBE7	11/11/2015	11/11/2030
CN=TrustAsia TLS RSA CA; OU=Domain Validated SSL; O=TrustAsia Technologies, Inc.; C=CN	79F1F5AB697DEBF195F5B7DA65F95399682EDAEB80115B9D42A6AE5E2FA98802	12/8/2017	12/8/2027
CN=TERENA Code Signing CA 3 G3; O=TERENA; C=NL	794C63DB244BA73FB286F15DAB8D0CA5425508381E98844954E63823BB5D7F74	12/9/2014	12/9/2024
CN=GeoTrust Code Signing CA; OU=www.digicert.com; O=DigiCert Inc; C=US	78A95ED82180A1C33A9F34EDB75E6774FD4BB73AA2C7C4121453DDB627DB1BAF	7/18/2018	7/18/2028
CN=Thawte CN RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	7867AAE905EB8D55635FFEBBBF8CF05A63B9B390665DE2367AC1073E92913728	6/20/2019	6/20/2029
CN=DigiCert Assured ID TLS CA G2; O=DigiCert Inc; C=US	77CD51784A693D9482E7EA694E4053BCFD9DF65580FBCE14B2A7527C081803E1	3/25/2020	3/25/2030
CN=Oklahoma State Department of Health CA; OU=Orion Health Direct Secure Messaging; O=Oklahoma State Department of Health; C=US	77ABE65DF4BE94E5EC222FC905E1233F8C77D6B3AE2933346A0C2FC3B2F1F560	2/16/2015	2/16/2025
CN=RelayHealth Direct CA; O=RelayHealth; C=US	77537682E9A0B2C5BD5E62BC1CB35ECEB38FCBEBF7D2DC326F7E420F0DDBEDB3	4/4/2014	4/4/2024
CN=Telenor Norge AS Dealer CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	76790AE708EFBB366BA192A68D50810AE53E82A497CFF3911F888A21E04FE2D7	4/5/2012	4/4/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=QTC Management Inc CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=QTC Management Inc; C=US	765A29596F5F74EEA3BDAC0670E7DF42BFD8708765AD4F892FEEF714C214E7AE	4/26/2016	4/25/2021
CN=DigiCert Trust Service CA; O=DigiCert Inc; C=US	75AC8E41D9A7CC758D3998FE030F638CFD28855823DA4E9B56954CFBDE054EB6	3/4/2020	3/4/2030
CN=NBN Co Limited Public Issuing CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=NBN Co Limited; C=AU	758F496C9928A3C67E0D50D03D2E2CAAFF733D427E57AB5FEE7D5AC4153C4071	2/10/2015	2/9/2025
CN=TrustAsia ECC OV TLS Pro CA G3; O=TrustAsia Technologies, Inc.; C=CN	756AAB900E3F5C762734B6461FC32A9DD341EA1D4A04283409233C39787A867E	3/13/2020	3/13/2030
CN=E-Sign SC Class 2 Consumer Individual Subscriber CA - G2; OU=Symantec Trust Network; O=E-Sign S.A.; C=CL	72F0E3B1B8CD1A86BDF7D022DA4131C302293CAE820B28A597BC84D041B8971D	11/15/2012	11/14/2022
CN=DigiCert High Assurance Trust Service EV CA; O=DigiCert Inc; C=US	72D0F7CBF4529B80C34A7CBB438BD1D0E1FC26E80E59C8BD4FD7314FCDDF0E994	3/4/2020	3/4/2030
CN=RVBD Certificate Issuer; O=Riverbed Technology, Inc.; C=US	72563CC98ADA2C5D2126542ACC908154AEB1F9D6F7E83A55C09744C7D7ADDDBA	11/20/2018	11/20/2028
CN=DigiCert EV Server CA G4; OU=www.digicert.com; O=DigiCert Inc; C=US	710024B37BD9F0E1537C18A4C20F9A31C4B485D1248C643F20B4C00F3716BA85	1/17/2017	1/17/2032
CN=AO USC ROOT CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Administrative Office of the U.S. Courts; C=US	70FC4F59FA70CBB6A24B2B6444E0D09733B1C4A9F28A6B206C110579055E1FD2	3/5/2011	3/4/2021
CN=Secure Site Pro Extended Validation ECC CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	70DC86F9F7750B74B1DEC8CD352EC25837C36E640F7148E08464EF5901E5A589	6/20/2019	6/20/2029
CN=CDC Secure Data Network CA G2; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)10, Class 2 Managed PKI Individual Subscriber CA; O=CDC; C=US	70A0FE0EDCB4898E5BB09DF8FC6B8978E02A287EDB10175870E81E1491340C5C	11/30/2010	11/29/2020



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Brown Brothers Harriman & Co. CA - G2; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Brown Brothers Harriman & Co.; C=US	7082427CD46834AEF6655ABADD898DE01F9E1A988E753401EF81A0A37410AB78	2/8/2011	2/7/2021
CN=AlwaysOnSSL RSA CA G1; OU=Domain Validated SSL; O=CertCenter AG; C=DE	706ECB21B096F6FFCCDC9EBE5AA1B776F64DB8FAE7F0A5C032C71041E502B98F	11/2/2017	11/2/2027
CN=TrustAsia ECC OV TLS Pro CA G2; O=TrustAsia Technologies, Inc.; C=CN	70357B9E56D3FB3C6C009C38C7181454C462908DFBCE6D54D60DFE1E506E14FD	6/20/2019	6/20/2029
CN=Thrift Savings Plan CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Federal Retirement Thrift Investment Board; C=US	6FE969B0E32956CDA827A4084F9330C9559BB910291B9A4107C3C470774411D1	6/11/2013	6/10/2023
CN=North Dakota Information Technology Department CA; OU=Orion Health Direct Secure Messaging; O=North Dakota Information Technology Department; C=US	6ECF658CCEA8B29BE60C85904F4ADD7CCB7950CF58C97BBF60D57CEA49A2703D	1/10/2014	1/10/2024
CN=DigiCert Trusted Server CA G4; O=DigiCert Inc; C=US	6E8D952FDBABAD8DE3D61E094393739B5A47371A52BDCB2A3C2F8C43622F640F	8/1/2013	8/1/2028
CN=Thawte ECC CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	6E62CBE3E42A41C50405B3E2F1A44257683267856184AF9C02112070AC836936	11/6/2017	11/6/2027
CN=RapidSSL Class 3 ECC CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	6D63EAA731823D80E47624BE60BAFAB79D9E4030D43E3D02E185BD5B77E4665B	11/2/2017	11/2/2027
CN=Abbott Laboratories Secure Server CA; O=Abbott Laboratories Inc.; C=US	6C69E201656440EB98CD0875764A1ED19015ED8C4427601ACA9C68AFA8973959	7/12/2016	7/12/2026
CN=Agilent Public CA G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Agilent Technologies, Inc.; C=US	6BE4732E5C0FBB61A4F8B2EED0A1C47AB7FCFA559FD5EF3D5250D20E74503A83	4/23/2013	4/22/2023
CN=GE SMIME Issuing CA 2.1; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=General Electric Company; C=US	6BE39EC9E02D54008A7A716DD35A3D2F0A1FD8F8F34DAE235446150C6F48BC7E	7/16/2015	7/15/2025
CN=SecurityMetrics DigiCert EV CA; OU=www.securitymetrics.com; O=SecurityMetrics; C=US	6B2328E7FFF598B2ADF90B7F3EA42B45FA606D78E2B117B7D60E99E828CF7565	10/30/2012	10/30/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Secure Site CN CA G3; O=DigiCert Inc; C=US	6AF5C4EAC180289B94A77A5D231E3865FFE934F3E6A24BF487EB4E2BFD809A4B	3/13/2020	3/13/2030
/C=US/O=DigiCert, Inc./CN=DigiCert QV EV TLS ICA G1	6A7B2AA3414039A663D5D8BBAB8256A3979A84C332BF5E1EE8F6D0E0ADA84668	3/16/2020	3/14/2030
CN=GREEN SHIELD CANADA CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)10, Class 2 Managed PKI Individual Subscriber CA; O=GREEN SHIELD CANADA; C=CA	6A7146319034A1F380E6B32A8FAC0069EB1D332477F4EAD33762F8A614A552F2	12/2/2010	12/1/2020
CN=University of Houston CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=University of Houston; C=US	69FF03E05230DFD61E4D6F6DD6662808C65A85CBE8FEA5E43FBF387128E8B4F4	6/18/2015	6/17/2025
CN=MSC Trustgate.com Class 2 CA - G2; OU=Symantec Trust Network; O=MSC Trustgate.com Sdn.; C=MY	69D455F481C2BB240476BDFC04F25D17AF7FADE203EEC6B31910A9AA4D0A86D7	9/29/2011	9/28/2021
CN=Thawte EV RSA CN CA G2; O=DigiCert Inc; C=US	69919D820EDF582ADBCF8E092A9284D901772EE2B419EA9DE1F5872C791FC6FA	3/13/2020	3/13/2030
CN=Symantec Class 2 Shared Intermediate Certificate Authority - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Symantec Corporation; C=US	68E63395029061641385B8AFF77F6D66F2D1FD87A821630D27EC3645C9FE235D	4/23/2015	4/22/2025
CN=TrustAsia TLS ECC CA; OU=Domain Validated SSL; O=TrustAsia Technologies, Inc.; C=CN	68D0B2E8C85BF009B4DB39AC8B5E2FA8E1FD9FD1E5028704EA9288C7E472AAEB	12/8/2017	12/8/2027
CN=GeoTrust SupremeSSL 1 ECC CA; OU=www.supremessl.com; O=SupremeSSL; C=NL	6861BB4CBEDA2AA01066BF476BF8F2FE6EA9F008CB0AC8E1755E2A328FA5933	5/7/2019	5/7/2029
CN=BHP Billiton Group Operations Pty Ltd Secure Email CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=BHP Billiton Group Operations Pty Ltd; C=AU	67C0A4826293FCFC61E57FB496443C84F035496E2120FC80C551AD3C3775E368	8/18/2011	8/17/2021
CN=DigiCert Federated ID US L4 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	6797436214EFEE67CDE7D70358D4D8B00DFBF78D5C87C62B4A7E790D73DD7BD9	4/18/2013	4/18/2023
CN=Symantec Class 2 Signing RSA Intermediate CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	66F7B0147C09F9DA79E63800A96F649DA7E59757F876F08126D07E8FB8542488	1/22/2015	1/21/2030



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Symantec Enterprise Mobile CA for Microsoft - G2; OU=Windows Phone Enterprise Applications; O=Symantec Corporation; C=US	65E5B094657AA1D7161BA5710F024FE8DDF21ADB6270A20BAE0814183AA85370	5/24/2017	3/13/2032
CN=DigiCert Secure Site Korea CA; OU=www.digicert.com; O=DigiCert Inc; C=US	6555D661D37F2494A23C2D5F83479E78051B6DE76A147B506D6BEA2882B4D066	11/20/2018	11/20/2028
CN=GeoTrust Class 3 ECC CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	64E6E095926F52475116C164D6A85E9B21322A2B4867DF7E72A1C632F8C74143	11/2/2017	11/2/2027
CN=DigiCert Trust Service CA G1; O=DigiCert Inc; C=US	64616B62820D458F7C71E3449ECCF3F3E4735B76879860C1C660DF23438607EA	6/9/2020	6/9/2030
CN=Cerner Corporation Resonance Intermediate CA; OU=Cerner Resonance; O=Cerner Corporation; C=US	64284AA5F8DC8697D43D9737CF4E266625414E449C019667714537FF7EDE31B7	11/11/2015	11/11/2021
CN=Voya Public Issuing CA1; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Voya Financial; C=US	63B7404D57FE17FD7E32DAC98D934EC98AB69F64D0338987193657A64364BE60	3/4/2016	3/3/2026
CN=Thawte Partner CA; OU=www.digicert.com; O=DigiCert Inc; C=US	635AF6889F49060FE0E7BABC0F23314FB118F3B18243DD17F47D8647A69684B1	11/20/2018	11/20/2028
CN=DigiCert Assured ID CA G3; O=DigiCert Inc; C=US	634FDF26C994E76A2918D9EFC4CAB9C6FCB344EF642A79C89192BCDA0ED52F4C	8/1/2013	8/1/2028
CN=DigiCert Universal Issuing CA; OU=www.digicert.com; O=DigiCert, Inc; C=US	622A42A28CAD83D962771D9D09BD307877D4AB513B4FE0CF2E5851E79FFA6FE	12/8/2017	12/8/2027
CN=CloudFlare Inc ECC CA-2; O=CloudFlare, Inc.; C=US	6172D7A1996CBEF71A0182DD44B99E9C035742A9EBD0311AA73AA4733344C5A6	10/14/2015	10/9/2020
CN=NCC Group Secure Server CA G2; O=NCC Group; C=US	6075DA5CECD15D6584C5560322D5C09FC2199E52DEA7921D91040AA75248672E	7/30/2014	7/30/2029
CN=RapidSSL TLS DV RSA Mixed SHA256 2021 CA-1; O=DigiCert Inc; C=US	6060EAB180122EB14F22EDE465B4A9A70E29E70FB182EBF01D5B1333F2E73242	1/1/2021	9/30/2022
CN=Sutter Health CA; OU=Orion Health Direct Secure Messaging; O=Sutter Health, a California nonprofit public benefit corporation; C=US	603D69822381A0BFC274BBED67009BC7DF133CB902FA242CF58BF727D23D5495	10/21/2014	10/21/2024



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Asciano CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=ASCIANO EXECUTIVE SERVICES PTY LTD; C=AU	5FC7C6E19AF873E0941D7C6AB344D3E6E4F73DD67693FADF2A29C6438AC1A1A	11/3/2015	11/2/2025
CN=DigiCert Cloud Services CA-1; O=DigiCert Inc; C=US	5F88694615E4C61686E106B84C3338C6720C535F60D36F61282ED15E1977DD44	9/25/2020	9/24/2030
CN=DigiCert Governmental Direct CA; OU=www.digicert.com; O=DigiCert Inc; C=US	5F665CBACC1E37171EA83EA85C570F9861CAF77BAC8886ABC4BB19B3698C094A	9/25/2015	9/25/2025
CN=AGC Public CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Computer Sciences Corporation; C=US	5E71C746D45EBCFD6D2DCE4A2DABCCD9335E3AD8D63B349989341911ECD70E88	11/11/2014	11/10/2024
CN=Aetna Inc. Secure CA2; O=Aetna Inc; C=US	5D28761CBF304EAFCD127B34D614FE179AC7744F1552AF1C31298425AD05A275	12/9/2014	12/9/2024
CN=GE Enterprise SMIME CA 2.1; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=General Electric Company; C=US	5C854634778E6DDC076ABAA36E5B8F4F45140578BD3A45AF09B7F23C34F032AD	6/16/2015	6/15/2025
CN=SRI International CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=SRI International; C=US	5B6A31D14ED98E8CF23A115BC45E87B8ECD82A937A29DBE0EFBA3C8133494B74	11/15/2012	11/14/2022
CN=Inpriva Direct Federated CA; O=Inpriva Inc; C=US	5AE4F777426BBC5AA85986CA48D319270C5536210DC8EA1A28D502F6B3595138	11/18/2011	11/18/2021
CN=Telenor Norge AS Test NF CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	597D5A286729E73A324E5665CEE4B97FDD5A9FD14EBA4B903319A16CFC946680	9/3/2015	9/2/2025
CN=Thawte ECC CN CA G2; O=DigiCert Inc; C=US	58E89F4F70410DA00B41473CFA413FA0737ED2729F3ED77BE29A7F4705377147	3/13/2020	3/13/2030
CN=DigiCert High Assurance CA-3; OU=www.digicert.com; O=DigiCert Inc; C=US	57D8D5B832616B7823466A0C372770D16A5DCF246581F0F58373E51C7E1E5316	4/3/2007	4/3/2022
CN=DigiCert PKI Platform C2 Shared SMIME Individual Subscriber CA; O=DigiCert, Inc.; C=US	55F3A359F0A26D72FF244C2EE396FD51BC2400EA250C91EFC355E2F8103C9939	6/4/2019	6/4/2029
CN=Autoridad Certificante Bolsa de Cereales - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Bolsa de Cereales; C=AR	54E37620BF05CEAFBB2286EB251F69434C84677B8122299AF2E07750341268E2	8/18/2015	7/25/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Federated Healthcare CA; OU=www.digicert.com; O=DigiCert Inc; C=US	54C3F501042CDCC09AE8143CB192BD5E5724C9C88A6AB395A94A1A7AFC26CE7C	2/11/2014	2/11/2024
CN=Data Management Intermediate Certificate Authority; OU=Fresenius Kabi USA; O=Fresenius Kabi AG; C=US	54837EF7B5AC4AA23606A15EF30DE46E9BB7E23E60F6ED4F2612092B94EDC68F	8/25/2015	8/25/2025
CN=DigiCert High Assurance EV CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	541AF019961760EF19E8FB4134E6D43085B5E5E087F30197DC42B2097E10487E	11/9/2007	11/10/2021
CN=GeoTrust ECC CN CA G3; O=DigiCert Inc; C=US	52DDE89FDD6F610473F9314C7A8B1AC442F8AA833AA5D773006FDA758C9FF1EC	6/9/2020	6/9/2030
CN=E-Sign C2 Firma Electronica Avanzada Consumer Individual CA G2; OU=Symantec Trust Network; O=E-Sign S.A.; C=CL	52A5E31287A0F89159F7BB4BD3A6A270DEE583A77261F6D00DD92D8C9424E800	11/15/2012	11/14/2022
CN=Symantec Class 2 Shared Intermediate Certificate Authority; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Symantec Corporation; C=US	5265BCA0D31C47DB16C359C5DA88B4C310FA0D4AB1A86FF7E2D5BFA1546C5559	6/7/2011	6/6/2021
CN=DigiCert SHA-2 RADIUS CA; OU=www.digicert.com; O=DigiCert Inc; C=US	524CF7331C4EE353EEB1ECD74E1F801A0F1F08DFA0322092F42205AFC3A17675	9/20/2016	9/20/2026
CN=MedicaSoft Direct Intermediate CA; OU=MedicaSoft Direct Messaging; O=MedicaSoft LLC; C=US	51A6E2ED41040AAE8E089FBABFE26A38D656F5B0855635352FEE9598286BB021	4/28/2015	4/28/2025
CN=Plex Devices High Assurance CA2; O=Plex, Inc.; C=US	50D3D71FC0CD7E36ADAE32221FEFBE8CC29B2676BA326C09B8FA1B24DBE75514	5/19/2015	5/19/2025
CN=BT Class 2 CA - G3; OU=Symantec Trust Network; O=British Telecommunications plc; C=GB	4FD95AFC505C1CCB5ADA4BA00B049456FC8F7BFB73AD0C1A9B61F2F8E8EE4279	12/16/2014	12/15/2024
CN=Telenor Norge AS EDC CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	4F5C36419568CB1E7084FB82DACDD1015ADB1D57B5C3E3F17F77CA092977432	6/19/2012	6/18/2022
CN=DigiCert Trusted G4 TLS RSA SHA384 2020 CA1; O=DigiCert Inc; C=US	4F35C6B9C100905FF25BB01C0A20EBE335BCEEF249CE9FFA1E11E062ED66FCD1	9/24/2020	9/23/2030
CN=Symantec Class 2 Individual Signing RSA CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	4E74475D2C33E1DD4732306B79712B5EE6997C2DBDF596CC8BD1362163DAA4F4	1/22/2015	1/20/2035
CN=DigiCert High Assurance CA-3b; O=DigiCert Inc; C=US	4E30F8004C18D3D798EC5A7734346B5A5EBE8D54423CE98257FC57735A6F738D	5/28/2020	11/9/2031



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Sonavation IoT CA; OU=sonavation.com; O=Sonavation, Inc.; C=US	4C56CA7A3C10EB58765E0FFCF8035C57C9F3BDB014862F676756CF789193F10E	5/19/2015	5/19/2025
CN=DigiCert High Assurance EV CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	4C4943B9EAA14EA2A69B8A7E4D8DA89081EEA11C87E8229B9B74F68A7AD33B79	11/10/2006	11/10/2021
CN=Safmarine Certification Authority; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa(c)11, Class 2 Managed PKI Individual Subscriber CA ; O=Safmarine; C=BE	4C3F6F5576A934FC5976583CC4C3039B00A8F91011B6104DF1D7EE48C282F94B	9/22/2011	9/21/2021
CN=iShare Medical Direct Intermediate CA; O=iShare Medical; C=US	4C0A5888C34AA01B745F4EBA268696B2CCB3F4AA31C8EDCB3AFE8FA84CB74CC1	1/14/2015	1/14/2025
CN=Thawte TLS RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	4BCC5E234FE81EDE4EAF883AA19C31335B0B26E85E066B9945E4CB6153EB20C2	11/2/2017	11/2/2027
CN=Symantec Class 3 ECC 256 bit EV CA - G3; OU=Symantec Trust Network; O=Symantec Corporation; C=US	4B2CBA18EFBCE6C3C4A80AAABC952337000CD9346B768D062412A2DED846EDC9	1/7/2016	1/6/2026
CN=TrustAsia EV TLS Pro CA; O=TrustAsia Technologies, Inc.; C=CN	4AFFE4FEF39464D1788C660AF591D5E601B261C4811DF0A3DD9D61CAFE8E5ED8	4/27/2018	4/27/2028
CN=DigiCert SHA2 Assured ID Code Signing; OU=www.digicert.com; O=DigiCert Inc; C=US	4ADB819C250A2E183313405499D8735299C88F970A5019A27566B27E5818F41B	4/27/2018	4/27/2028
CN=ULA CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=United Launch Alliance; C=US	4A84F84E880F3D96C3BFBA2AED67B0EE300FBEE0A4A90D736EF738A089FD6B17	4/25/2017	4/24/2027
CN=Enterprise Premium Public CA; O=Mitsubishi Electric Information Network Corporation; C=JP	4A45559AD89684BB439FCD2CC4C5EC0F92EE0692CD6B9763957DE31A2F467CCA	4/29/2020	4/29/2030
CN=TrustAsia RSA CA G8; OU=Domain Validated SSL; O=TrustAsia Technologies, Inc.; C=CN	48C4A1C5395E2B499D2E3EBE26EEFA91D11CF35DD5FA14937EEE5E807A2FF487	11/2/2017	11/2/2027
CN=Plex Devices High Assurance CA; O=Plex, Inc.; C=US	48A7C9C5A36734FC9E204D63CE6BBBCD9E21C1978604760CD8D30D6F4C67B67C	1/14/2015	1/14/2025
CN=DigiCert High Assurance Intermediate CA (SHA2); OU=www.digicert.com; O=DigiCert Inc; C=US	47511629F2BC3B7CF84FEC9F32798A43AF6252E550B6CAE76A38558712E37D8	12/7/2011	12/7/2026



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Oracle RSA CA G1; OU=Organization Validated SSL; O=Oracle Corporation; C=US	461FB462E51D54A59A041CD5A651760AE847AE1C27C103887D52EC095F68E73C	11/2/2017	11/2/2027
CN=TrustAsia ECC CA G9; OU=Domain Validated SSL; O=TrustAsia Technologies, Inc.; C=CN	45B2A3A4D06EE652E940FABCA5CD8721C1FB7FEED8B75B0CC7F067E1D26E2CFE	11/2/2017	11/2/2027
CN=DigiCert ECC Secure Server CA; O=DigiCert Inc; C=US	458446BA75D932E914F23C2B57B7D192EDDBC2181D958E1181AD5251747A1EE8	3/8/2013	3/8/2023
CN=SCHIEX Direct CA; OU=SCHIEX Direct Messaging; O=SCHIEX; C=US	443C8158264710C0B768A8170E59BF1FAE4079D2BC39939A79FA839174ED81AE	6/7/2016	6/7/2026
CN=RapidSSL TLS RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	4422E963EE53CD58CC9F85CD40BF5FFEC0095FDF1A154535661C1C06BCADC69B	11/2/2017	11/2/2027
CN=Bloomberg TLS CA; O=Bloomberg LP; C=US	440B37416F2DE852CA386150D611EC0AF31DD58D8A27F882815A7EA3EE6848EE	9/24/2020	9/23/2030
CN=Google CA1; O=Google, Inc.; C=US	438F473EBFC8884EF5D3E0D52D264CDBE56CA382D9EBFC689D77489409F55A6E	8/25/2015	8/25/2025
CN=National University of Singapore CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=National University of Singapore; C=SG	438BA9C85C9A8C5506ACD1146ADA068B777A32FA2C78A6D4AB57241174881AB2	9/18/2014	9/17/2024
CN=Alaska eHealth Network CA; OU=Orion Health Direct Secure Messaging; O=Alaska eHealth Network, Inc.; C=US	437859303D0183862A96F6ABF8B03F2A69D4CBD317217666015E1ABA3C84AA11	10/22/2013	10/22/2023
CN=RapidSSL Class 3 RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	433A09FFDDB2EED82EEA9F918C860C04CBEAB1381A48DFE2C48E42E13D35AF81	11/2/2017	11/2/2027
CN=Telenor Norge AS Test Dealer CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	4325F2A8870CB6A9BF08664D697323F62546C40907F885D6A6407071B4A9B540	4/5/2012	4/4/2022
CN=Rochester RHIO Intermediate CA; OU=Rochester RHIO HISP; O=Rochester RHIO; C=US	43202B9E870659921F9DA26EDA9E47BF6990DB031A0BC0B23AFA1E7968ED3E99	10/21/2014	10/21/2024
CN=Symantec Class 1 Individual Subscriber CA - G5; OU=Symantec Trust Network, Persona Not Validated; O=Symantec Corporation; C=US	42A5FBCA2D6AA262FF62333AB78699CE1E4BF1CF5F49F806FD324CBE5BB62CF4	10/1/2015	9/30/2025



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Assured ID CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	425E72C87FF22855D9908B71AB4C64B0D2F248287097690C62FE733F631DE38F	11/10/2006	11/10/2021
CN=Western Connecticut Health Network CA; OU=Orion Health Direct Secure Messaging; O=Western Connecticut Health Network; C=US	415322F3970C8CD0F54311E0F93C5F5C37BA3059FDB10F5240AC20934717F840	3/5/2014	3/5/2024
CN=Autoridad Certificante Banco Santander Rio - Empleados G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Banco Santander Rio S.A.; C=AR	4100F6070323E58BB5159290C24D3005601F875687665B48EC4DF65E3F1A8AC2	11/19/2015	11/18/2020
CN=Secure Site Pro Extended Validation CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	40D69920EA05456FA0117DE608B8A8013790B542097E343EC1CBCE2DFB9713B0	6/20/2019	6/20/2029
CN=DigiCert SHA2 Extended Validation Server CA; OU=www.digicert.com; O=DigiCert Inc; C=US	403E062A2653059113285BAF80A0D4AE422C848C9F78FAD01FC94BC5B87FEF1A	10/22/2013	10/22/2028
CN=Louisiana Health Care Quality Forum CA; OU=Orion Health Direct Secure Messaging; O=Louisiana Health Care Quality Forum; C=US	3E4F09D65438B5CF7E456288C08FE9F47ED4E3ED669279C81AEFAB0BAFB86A09	10/22/2013	10/22/2023
CN=TrustAsia Secure Enterprise Email CA; OU=www.trustasia.com; O=TrustAsia Technologies, Inc.; C=CN	3D774B65EE95FD6EFD1C8732B57E607C9BEE423C36E46F6E1CC8CA1F0AE62E23	4/27/2018	4/27/2028
CN=Jax HR Saint Vincents HIE CA; OU=Orion Health Direct Secure Messaging; O=Jax Health Records - SV HIE; C=US	3D2928A2988227CE4EBC319AA34E6552E9D98839D5CE2114E79F8F5EC2BF9DE0	2/16/2015	2/16/2025
CN=DigiCert Global CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	3C750409882486D64151F4CBB5BD61432A4A7BF42F48A85198D245A64AEA2117	11/10/2006	11/10/2021
CN=Symantec Class 2 SSP CA - G2; OU=Symantec Trust Network; O=Symantec Corporation; C=US	3C18176FEBA1D20C8BFA7B484066E2A5825A226237E1E7BE3828E6F6C3771B23	3/21/2013	3/20/2023
CN=Cloudflare Inc ECC CA-3; O=Cloudflare, Inc.; C=US	3ABBE63DAF756C5016B6B85F52015FD8E8ACBE277C5087B127A60563A841ED8A	1/27/2020	12/31/2024
CN=DigiCert Extended Validation CG CA; OU=www.digicert.com; O=DigiCert Inc; C=US	38FDF62507CEDEE16B1455E96BD23D5C6F6C5654D68C7E3B27238D2C73744A86	9/24/2018	12/14/2021
CN=DigiCert Baltimore TLS RSA SHA256 2020 CA1; O=DigiCert Inc; C=US	38F73647F1ECAECC0FC5AFE68AC30E0C26171E9F232F4530729412408FD53626	9/24/2020	5/11/2025



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Secure Site Pro Extended Validation CA; OU=www.digicert.com; O=DigiCert Inc; C=US	3883E6DE4917A46B594ECC2D2AC6A95D43E7EAA8E089A91F9BC104FF16DF8DE6	4/27/2018	4/27/2028
CN=New Hampshire Health Information Organization CA; OU=Orion Health Direct Secure Messaging; O=New Hampshire Health Information Organization Corporation; C=US	37E9A271EB4725C93CDAF183562C7D7D9EA8FC139F8374FFE418D77D32428FE0	10/22/2013	10/22/2023
CN=idOnDemand SHA-2 CA G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Identive Group, Inc.; C=US	36CAB8A86139B82476AE824EE4939A92088E6F16C2BD270EE349BF9D5A9E3384	9/5/2013	9/4/2023
CN=GeoTrust SupremeSSL 1 CA; OU=www.supremessl.com; O=SupremeSSL; C=NL	354FCFC6162A0EE2205DBEF68931E78033ECE9D125E0824E49BAEBF82DFDD167	5/7/2019	5/7/2029
CN=TrustAsia OV TLS Pro CA; O=TrustAsia Technologies, Inc.; C=CN	33E8A4ED48930760CE1AD7A2D44F079B22F660052753976109E6FC74752552BD	4/27/2018	4/27/2028
CN=Cybertrust Japan Secure Server CA; O=Cybertrust Japan Co., Ltd.; C=JP	33D57359831F87754E6E755D6B5B56E7E71297DDDFEA1D6397086604280F6FFC	12/7/2016	12/7/2031
CN=MobileMD Direct Intermediate CA; OU=MobileMD; O=MobileMD Health Services; C=US	33CF1F5C9396D7EE9E8283B2E76F400E50450575EB15AD02C956C1C5575B184D	10/21/2014	10/21/2024
CN=DigiCert Global G3 TLS ECC SHA384 2020 CA1; O=DigiCert Inc; C=US	338EDB04FB8BEAF07A10749E7F4E538DE0715DAFB6478D58063FB7C8BDB0C30D	9/24/2020	9/23/2030
CN=Trust Italia Class 2 CA - G3; OU=Symantec Trust Network; O=Trust Italia S.p.A.; C=IT	3372E8E80644340E8BA0BACCB2AE757747A6CAB8977947AA14EC8838F2F01D34	10/27/2015	10/26/2025
CN=CloudFlare Inc RSA CA-1; O=CloudFlare, Inc.; C=US	328C5991D8383E27D0EBE910BF66C0AF3D748A85D3011A52D88F1D8C8635647F	10/14/2015	10/14/2020
CN=Thawte EV RSA CA G2; O=DigiCert Inc; C=US	3286691412F30ECE5C065FD62F4392A4762D1E77815338359DF390299FBD61EF	7/2/2020	7/2/2030
CN=Oracle TLS RSA CA G1; OU=Organization Validated SSL; O=Oracle Corporation; C=US	319896E3954D510DA3A4B75387E8C870B3BC2C3228D8550916EBE9ABDCB7F921	11/2/2017	11/2/2027
CN=Symantec Class 3 EV SSL CA - G4; OU=Symantec Trust Network; O=Symantec Corporation; C=US	31862233620E789330CC893E8B5E66705331B8888B0ED30A44574D9E0A71C4F1	1/7/2016	1/6/2026



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=LfA Foerderbank Bayern - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=LfA Foerderbank Bayern; C=DE	315AC96789B49D48A1C420F32F9A4A73F4871AF75A4CA53CF41CE3FB3E2E76FC	6/16/2015	6/15/2025
CN=Blue Cross Blue Shield of Florida CA G3; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Blue Cross and Blue Shield of Florida, Inc.; C=US	30C955BBF62B0E73573DD9564A51235ED40B3B5BDD5E9B5561D64F96AD65D6	5/5/2016	5/4/2026
CN=GeoTrust SupremeSSL EV 1 ECC CA; OU=www.supremessl.com; O=SupremeSSL; C=NL	2FBA8FE915415049AA942857CB53137FFD3D9E5A47B27B5782DAB9B4DA7D624D	5/7/2019	5/7/2029
CN=Symantec Class 3 Shared Public Organization CA - SHA256; OU=Symantec Trust Network; O=Symantec Corporation; C=US	2F72019CB45B07AB05CB1BB8ECC3076D7072660B57A29E42EBE2AA57B83BC60B	7/11/2013	7/10/2023
CN=DigiCert Cloud Services CA-1; O=DigiCert Inc; C=US	2F6889961A7CA7067E8BA103C2CF9B9A924F8CA293F11178E23A1978D2F133D3	8/4/2015	8/4/2030
CN=Symantec Class 2 Employee CA - G3; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Symantec Corporation; C=US	2F320624CC3EBC01796080BEDEB5B2ED916F02A0AE5F537EDC4766BC455659DD	1/6/2015	1/5/2025
CN=Hewlett Packard Enterprise Collaboration CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Hewlett Packard Enterprise Company; C=US	2EAA4251B3FFDD3AE904833A08B7FE1E7717C17082455C07F6F6DA902CBAC5D0	3/17/2015	3/16/2025
CN=BHPB Secure Email for External Parties CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=BHP Billiton Operations Pty Ltd; C=AU	2EA4E7E0AC42B3BC3DA2D9A7887209BC8CC7958CEE1B52D25B4BE30D6E95AEA8	10/6/2011	10/5/2021
CN=ServiceMaster CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=The ServiceMaster Company; C=US	2E26D155C1B812404C41E7360CF1D93D4664AE267274F64B8114BBE7981E83B2	8/2/2011	8/1/2021
CN=TrustAsia ECC EV TLS Pro CA; O=TrustAsia Technologies, Inc.; C=CN	2DAAC6FDFAC16C548C53FF1198254D7E937761D22A1E7CC5C1A9462E971461F5	4/27/2018	4/27/2028
CN=Care360 Direct Intermediate CA; OU=Care360 Direct Messaging; O=Quest Diagnostics Care360; C=US	2D602B1F166D6316DAFD46B4B1EDD6DCFC54D2AF8A944BE358858FD504AAA16B	8/25/2015	8/25/2025
CN=GE SMIME Issuing CA 2.1; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=General Electric Company; C=US	2D53B8177062E4C7CEA79EEBF62BFA52A5B18BC9B89483597E5714E4E9B52315	7/16/2015	7/15/2025



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=GeoTrust EV RSA CA G2; O=DigiCert Inc; C=US	2D140F20B8A96E2B4D2F1CC5ACA5E5A1E7DC56A7491E510906960F38D2D21AEF	7/2/2020	7/2/2030
CN=State Street Bank and Trust - Global Markets CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=State Street Bank and Trust Company; C=US	2C68D776FFD51155D98957A66043F896E2BC69CB1943570389350057A2C70616	7/10/2015	7/9/2025
CN=Blue Cross Blue Shield of Florida CA G2; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Blue Cross Blue Shield of Florida; C=US	2B6B476D7B6F01188226DC5A735AB94427B7000D31FFFD9678E9E704A8BF4BB2	3/1/2011	2/28/2021
CN=DigiCert EV Code Signing CA (SHA2) G3; OU=www.digicert.com; O=DigiCert Inc; C=US	2B0A972DC0DAE218E9477396D3D82DEB82DE118867DD19E1D2FFFD958CBB6DA9	7/18/2018	7/18/2028
CN=DigiCert SHA2 Assured ID Code Signing CA - G2; OU=www.digicert.com; O=DigiCert Inc; C=US	2A9D0D018BB49FDEA14D6C16E9BA0A942F2833B9AADFFBAD1306E301B495CFB7	7/18/2018	7/18/2028
CN=AlwaysOnSSL TLS RSA CA G1; OU=Domain Validated SSL; O=CertCenter AG; C=DE	2A41BA819EB6125AF5CB4B8B0E9E954ECE798C2A7EE43DCDAF7D395987C4D552	11/2/2017	11/2/2027
CN=DigiCert Grid Trust CA G2; OU=www.digicert.com; O=DigiCert Grid; C=US	28CBB4E0D9C4EE6D04AC8F14717605AE3A4BD8CBF8D081B27AF6EDB2F3D76A32	1/8/2014	1/8/2029
CN=Nedbank Limited Public CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Nedbank Limited; C=ZA	267D014C81E6D02ED5898306B64D7B5EA91BAF9DB3183CF3BC64C25D2B35CAE6	9/10/2015	9/9/2025
CN=Telenor Norge AS Test EDC CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	26661F230442332E5F8F109C05A3FAA3EA339C29D22B07B8D1A048C693FA1F0C	9/3/2015	9/2/2025
CN=DigiCert Transition Issuing CA G3; OU=www.digicert.com; O=DigiCert, Inc; C=US	25B66390DD425867EC0DE58A6B198F5985BE58A43A4605E1A0B8C6F35B92D7EE	12/8/2017	12/8/2027
CN=CrossCert Class 2 CA - G3; OU=Symantec Trust Network; O=KECA, Inc.; C=KR	25A0B8C9773E4460E19971EF781BE81BDB7704ED5E486B267866A3AB6C2C0D44	6/4/2015	6/3/2025
CN=DigiCert TLS RSA SHA256 2020 CA1; O=DigiCert Inc; C=US	25768713D3B459F9382D2A594F85F34709FD2A8930731542A4146FFB246BEC69	9/24/2020	9/23/2030
CN=Optum Public Trust CA 1; O=Optum; C=US	253E3C9732DF8874C3D54DA522C1711142C98C2CEA7664635152A89A03EE9364	4/28/2015	4/28/2025



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Secure Auth CA; OU=www.digicert.com; O=DigiCert Inc; C=US	24E9F20AC167BB8F09DE8A1E9968CC53F0B5F3A4948F51B8647B40B186C75EBE	4/23/2014	4/23/2029
CN=GeoTrust CN RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	23DDF08B22373D86158EB9C99FDB5366B19804560531372DD20DCE3FB766F56C	6/20/2019	6/20/2029
CN=Mass Hlway CA; OU=Orion Health Direct Secure Messaging; O=Massachusetts Health Information Highway (Mass Hlway); C=US	23BA3A97C580DF2C316624D7FA5F7663580261CB2048142C73A3E86B113EB26D	9/25/2015	9/25/2025
CN=Medicity Direct CA; OU=www.medicity.com; O=Medicity Inc.; C=US	231BA402E28B3495F3BE0CAD87078D9B8FBD86041116AF9B8047E7B1CFFA82D0	2/13/2014	2/13/2024
CN=Telenor Norge AS NF CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	22261C8F0BCD85571AF2F801C47712E6C16DCAE3C7DFC4CD2451D9C538B349D1	9/3/2015	9/2/2025
CN=DigiCert High Assurance CA-3; OU=www.digicert.com; O=DigiCert Inc; C=US	21EB37AB4CF6EF8965EC1766409CA76B8B2E03F2D1A388DF734208E86DEEE679	4/2/2008	4/3/2022
CN=TrustCubes ICA G1; OU=www.trustcubes.com; O=TRUSTCUBES LIMITED; C=GB	2106CC7907C64B8A5DA2FC338EE94DFFF10EF711DEDDBB4FC694EE092EC532B1D	7/18/2018	7/18/2028
CN=Huntsville Hospital System CA; OU=Orion Health Direct Secure Messaging; O=Huntsville Hospital System; C=US	20E3E88747A8D88E11A527521032DC8CAE92BC33B45C93EEE04F624A70DC920A	3/5/2014	3/5/2024
CN=Avaya Client Services Users CA 2; OU=Avaya IT, Class 2 DigiCert PKI Platform Individual Subscriber CA; O=Avaya Inc; C=US	1FFA0D1F55CE4A0507E8C38E8B557B88CBDD690D903D996B1F7850D81D6A4A93	11/26/2019	11/26/2029
CN=Symantec Class 3 Extended Validation SHA256 SSL CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	1F9B31F820929EBFA03117EC2B77BA6B0FB6ECC9E027682A559378DA311C54EF	4/9/2013	4/8/2023
CN=DigiCert Global G2 TLS RSA SHA256 2020 CA1; O=DigiCert Inc; C=US	1F8EB9E9A8E066CC5B3833E06B3129764B622639D5B163F600E1C79120BF3EED	9/24/2020	9/23/2030
CN=Inland Empire Health Information Exchange; OU=Inland Empire Health Information Exchange; O=Inland Empire EHR Resource Center; C=US	1E72D83ED9499CBA686968452BE591C48816EC9181391A5D03C1F4D3BA1658DC	1/8/2014	1/8/2024
CN=Encryption Everywhere ECC DV TLS CA; OU=www.digicert.com; O=DigiCert Inc; C=US	1E4FC34D26E0793D559E322FE111F1E19A9D2E34BC25D3C427B032A48D2C5B6A	7/23/2019	7/23/2029



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Grid Trust CA; OU=www.digicert.com; O=DigiCert Grid; C=US	1E0A3AB993157717281D42ABF801EB64DEED500E4168CA706D6A71D8103C73A2	12/7/2011	12/7/2026
CN=Aetna Inc. Secure EV CA2; O=Aetna Inc; C=US	1DDFDDF883E3945B2CB24FA5B83788379C5AB058422AB979DF66C77473988687	12/8/2017	12/8/2027
CN=GeoTrust TLS DV RSA Mixed SHA256 2021 CA-1; O=DigiCert Inc; C=US	1D80CD18A794F1F4850EDC33C6048F02E85386A47F3CE836974A8E452A60D7F2	1/1/2021	9/30/2022
CN=Highmark Tapestry HIE CA; OU=Orion Health Direct Secure Messaging; O=High Mark HIE, LLC; C=US	1B68286DEFCE036512A5DAC76C8ABD067D33A07D4E0DEF7707089C980075E192	8/19/2014	8/19/2024
CN=DigiCert Direct Non-Provider CA; OU=www.digicert.com; O=DigiCert Inc; C=US	1AEDDADDC1ED748543EAF5960DF96AD51E21A3164F30A0640CB0732365D39062	2/11/2014	2/11/2024
CN=KPN Corporate Market Class 2 CA; OU=Symantec Trust Network; O=KPN Corporate Market B.V.; C=NL	1AED19D0E4F63058B17FFE2A552975F03FCBDE8367B287171E575868BE14F938	3/16/2012	3/15/2022
CN=Veritas Technologies LLC Class 2 Employee CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Veritas Technologies LLC; C=US	1AB7DCA7F8B28027F2B71FBBA8CB87162FE112C47AC4D09638C8EA01915A177D	9/10/2015	9/9/2025
CN=Secure Site Extended Validation CA; OU=www.digicert.com; O=DigiCert Inc; C=US	1A8D790AF9B2B34D7DD6AF61B5AA4CF1380B86095CBAC2BCAB35BD566D0180C3	4/27/2018	4/27/2028
CN=Cisco Meraki CA; O=Cisco Systems, Inc.; C=US	199EE58009555DAE2CDA0626931C64391D6A88CCCB1F9F0B2EE80B667F581C06	7/12/2016	7/12/2026
CN=Honeywell International CA G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Honeywell International Inc.; C=US	19550DF2A43B367AFA194C34F3C3CBF8678E346691F895F429871EEADA53F7F8	6/7/2012	6/6/2022
CN=DigiCert SHA2 High Assurance Server CA; OU=www.digicert.com; O=DigiCert Inc; C=US	19400BE5B7A31FB733917700789D2F0A2471C0C9D506C0E504C06C16D7CB17C0	10/22/2013	10/22/2028
CN=Trust Technologies Global CA; OU=Digital Identity and Security; O=Telecom Italia Trust Technologies S.r.l.; C=IT	191E0B48B78B7EFA4822A465AD69B34405B878D10BD853D8E57CB8B9D9E50B8B	8/24/2017	5/10/2025
CN=GeoTrust EV RSA CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	185C0AE470423B9D4678A7C1055B5B48D90705505B794E215C063851336981F4	11/6/2017	11/6/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Mississippi Division of Medicaid CA; OU=Orion Health Direct Secure Messaging; O=Mississippi Division of Medicaid; C=US	1757291A3D7D0BB5B9B9CF8802F1B2AE173E56B0935970FC86B63A27499DB5E2	1/8/2014	1/8/2024
CN=WIPO CA - G4; OU=Class 2 Managed PKI Individual Subscriber CA; O=World Intellectual Property Organization; C=CH	16D809ED155C2AC7E9489E1A204116C9D16EFBE4C91F53369725A2B395535E28	1/29/2019	1/29/2024
CN=Encryption Everywhere DV TLS CA - G1; OU=www.digicert.com; O=DigiCert Inc; C=US	15EB0A75C673ABFBDC2FAFC02823C91FE6CBC36E00788442C8754D72BEC3717	11/27/2017	11/27/2027
CN=GeoTrust Class 3 RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	15C81322DA22F1EE7C8231ACC0B52E4F17A7AE6B30811BA2F667E648FF82D8AA	11/2/2017	11/2/2027
CN=DigiCert SHA2 Secure Server CA; O=DigiCert Inc; C=US	154C433C491929C5EF686E838E323664A00E6A0D822CCC958FB4DAB03E49A08F	3/8/2013	3/8/2023
CN=Catholic Health Initiatives CA; OU=Orion Health Direct Secure Messaging; O=Catholic Health Initiatives; C=US	151A3591B765D02C359EEC9C56ED8DDAD0C54E756A497D02BF979FA8DD5D95BB	8/19/2014	8/19/2024
CN=DigiCert Assured ID Client CA G3; OU=www.digicert.com; O=DigiCert Inc; C=US	14FAFCA84BDB8B0EC32719272BE730FE18D6FC29301C5CF789400596EC429AFE	9/23/2019	9/23/2034
CN=DigiCert Secure Site EV CN CA G3; O=DigiCert Inc; C=US	139AC36BD85398BBB4588687C20DC36827D03A5F42AADF87F02BECC4BE9BFC2	3/13/2020	3/13/2030
CN=Trust Provider B.V. RSA CA G1; OU=Domain Validated SSL; O=Trust Provider B.V.; C=NL	126505E929334CC3C73EE826E5A4E1C4ADB90C710805759F6CB69FFACB76A276	11/2/2017	11/2/2027
CN=DigiCert High Assurance EV CA-2; OU=www.digicert.com; O=DigiCert Inc; C=US	1188F831C949A62E9CD4F60E36F72544F0AF924DE07F9DA992E26E44C996EEEE0	3/23/2007	3/23/2022
CN=Mary Washington Healthcare CA; OU=Orion Health Direct Secure Messaging; O=Mary Washington Healthcare; C=US	1180C33AE1F23228923F6AE698C9C10DC729E0D811FC8B2EC02726E2DC26E2E4	3/5/2014	3/5/2024
CN=New Mexico Health Information Collaborative CA; OU=Orion Health Direct Secure Messaging; O=New Mexico Health Information Collaborative; C=US	10BEDDC480AA27563480B1BCAAB6C25B52995EA836E9A2ACE83F8F59206E2496	9/26/2014	9/26/2024
CN=Symantec Class 2 Individual Signing ECC CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	109AEA4F367823989B6C3638A56933ADC682EEBB2F655A16E6363263B4A729DB	1/22/2015	1/20/2030
CN=Legacy Technologies Intermediate; O=Legacy Technologies GmbH; C=DE	1032C6001ED664A0CD343B138BCB6860E2111011C3D5F06540F5BE41147812A5	7/2/2020	7/2/2030



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Symantec Class 2 Shared Intermediate Certificate Authority; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Symantec Corporation; C=US	0FE7E3781F9603BBED69B2145842FA8782F552BD35F3D438D69578794014E91E	6/7/2011	6/6/2021
CN=GeoTrust SupremeSSL EV 1 CA; OU=www.supremessl.com; O=SupremeSSL; C=NL	0FB6CE80909D19AFEE6A88C959E9E9AA6466715BCE05C6449FEB530A086DAF14	5/7/2019	5/7/2029
CN=DigiCert Accredited Direct Med CA; OU=www.digicert.com; O=DigiCert Inc; C=US	0E78434EC8AD6613562C8390D8B3306FC6087E0593C7D5AC2FAF9AD263879745	8/6/2013	8/6/2023
CN=Cybertrust Japan Extended Validation Server CA; O=Cybertrust Japan Co., Ltd.; C=JP	0E10BDDDEE7512DBD79EBF0B4F48FEED7C83C2BD3DD81765565F4FF110B7BFA42	12/7/2016	12/7/2031
CN=TrustAsia EV TLS Pro CA G2; O=TrustAsia Technologies, Inc.; C=CN	0D51B6CDCFC34A9F22144787F3FD920DC8800FB60490BFC8D289A1953E0FBDA4D	6/20/2019	6/20/2029
CN=APMM Certificate Authority; OU=VeriSign Trust Network; O=APMM A/S; C=DK	0CB82687CD03AD535A4276924064799A49E43D39A897CC86216C4FD52347B937	9/22/2011	9/21/2021
CN=Nokia Solutions and Networks CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Nokia Solutions and Networks; C=FI	0B5F13974CEB577E1CC39DFFADF616FCF0C17ECA6747201AEBA6AF3BC20CE4F4	10/10/2013	10/9/2023
CN=SGN FISGLOBAL PUBLIC CA; OU=Class 2 Managed PKI Individual Subscriber CA; O=Fidelity National Information Services, Inc.; C=US	0AD6A7334A5A23C986980F6FECD25006B563A0B6F1BCAA65C0345BA2D96928D3	1/8/2019	1/8/2024
CN=BHP Billiton Group Operations Pty Ltd Secure Email CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa(c)11 , Class 2 Managed PKI Individual Subscriber CA; O=BHP Billiton Group Operations Pty Ltd; C=AU	0A9DBB4BE5DDB8EEF54EE13B36EB97DD8BEBFD7B0AFA8B9C9A215EB724A4E88D	8/18/2011	8/17/2021
CN=The Mauritius Commercial Bank Limited CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=The Mauritius Commercial Bank Limited; C=MU	0A646FDC704F494A67739A7E99FD74955BB0AF1ABA622CEFE000B39557C5FC81	9/30/2014	9/29/2024
CN=Aetna Inc. Secure EV CA; O=Aetna Inc; C=US	0A163600631BD66267FB7AEAD25C538B2B7D72AD6416A2BBD285F654BB642F6D	12/9/2014	12/9/2024
CN=Cerner Corporation Direct Intermediate CA; OU=Cerner Direct; O=Cerner Corporation; C=US	09DE7FA739EE47C06291845F2E0E8A9E1C7CC2900AD354CF167316E02386BD9B	9/26/2014	9/26/2024



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=WoTrus OV SSL Pro CA; O=WoTrus CA Limited; C=CN	09033FE23996FE4A59C4C0F523D2560E31DFE4C17D8EA1403D429A971F4BD65A	2/9/2018	2/9/2028
CN=DigiCert SHA2 Extended Validation Server CA-3; OU=www.digicert.com; O=DigiCert, Inc.; C=US	085A0714524DF7AE9919A6F597884439E12A533E61552D29D6A18C35096FC548	11/12/2019	11/12/2029
CN=DigiCert High Assurance EV Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	071B8B4B13AD7B2BE09FDD7FBDF3482460838098C21519B83B3150F8E919832D	8/13/2018	11/4/2022
CN=WoTrus EV SSL Pro CA; O=WoTrus CA Limited; C=CN	070531383CCD100D3E9CD964DB07AA5E845A0686F2EAE3BC8A627B182057B1F1	2/9/2018	2/9/2028
CN=Greenville Health System CA; OU=Orion Health Direct Secure Messaging; O=Greenville Health System; C=US	06433FCA9F753980B526236DD72846EC1B20770BFCC7D3188DD67BC0ECFB7782	3/5/2014	3/5/2024
CN=KPN Telecom B.V. CA - G2; OU=VeriSign Trust Network; O=KPN Telecom B.V.; C=NL	04832F085D97CBA843F46D650FD6F5A7E1458462706EBAF9E0B9E9FEFC052350	12/3/2008	12/2/2023
CN=TrustAsia Secure Email CA; OU=www.trustasia.com; O=TrustAsia Technologies, Inc.; C=CN	047217772051D292238F3355F5C5435E9B84364CCD143FC49F9C31CD605439F0	4/27/2018	4/27/2028
CN=CertiSur Class 2 CA - G3; OU=Symantec Trust Network; O=CertiSur S.A.	041E70B7DDDD0F2F90F285C4C71E0E20533312A10773794A21B5791EC8755958	8/18/2015	8/17/2025
CN=DigiCert CN RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	03CE9BC71B91FDB7CB3C5235CAE0701CB486BBD628D4AADE5841FC5F0AA37A46	6/20/2019	6/20/2029
CN=TrustAsia TLS RSA CA G8; OU=Domain Validated SSL; O=TrustAsia Technologies, Inc.; C=CN	036A18F5F0EB9DD5EE02B7854DF5C33845601D8939CFB7B607F69D142C01D909	11/2/2017	11/2/2027
CN=Secure Site Pro CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	02FED3BA2E6A7843A318A981BC847061FD282D9E8847FFA9F54D785B6B81D6F3	6/20/2019	6/20/2029
CN=VeriSign Japan Class 1 CA - G5; OU=Symantec Trust Network; O=VeriSign Japan K.K.; C=JP	02E9E323CD6F98374079523514C3783AC1003AB80ABCBA0EE2258C418EAC44CC	7/24/2012	7/23/2022
CN=.NET Foundation Projects Code Signing CA; O=.NET Foundation; C=US	024F162B1D09F6A0868C38B4C8B4257C1EEA6C5A31589416D520CF1624917EB3	4/27/2018	4/27/2028
CN=Moog, Inc. M2 CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Moog, Inc.; C=US	01C235311274307F4457E079E1E11CCB0AB5B2A9F9919B269A5D304821F93FB8	7/19/2012	7/18/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Certisign Class 2 CA - G3; OU=Symantec Trust Network; O=Certisign Certificadora Digital S.A.; C=BR	011B074C1D1D22A927406597AB4E5114F5C045612EC98CC429A1A93E1986E6F6	9/22/2015	9/21/2025
CN=DigiCert Secure Site ECC CN CA G3; O=DigiCert Inc; C=US	00C0CBA95CBFE1E270814275F32B505D6E5916C2B6DA67FAF4DD309EE6E86CBE	3/13/2020	3/13/2030
CN=Trust Provider B.V. TLS RSA CA G1; OU=Domain Validated SSL; O=Trust Provider B.V.; C=NL	009871C3A4C607311E5AE92F01095F9BF76100B8794AB0A9A5210E6794C8607C	11/2/2017	11/2/2027
CN=Volvo Car Corporation CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Volvo Car Corporation AB; C=SE	00712AC5314A938E0D6188AE8D4C3566AE6C6AE9EB006FBAA5DE4239AF4427A5	3/29/2011	3/28/2021
CN=Maersk Line Certification Authority; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Maersk Line A/S; C=DK	0059C30A64B18C372D316EB373C4D687091ED202C4499AB8C1D5D3D0F12F1689	9/22/2011	9/21/2021
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=DigiCert Direct Secure ID CA-1	F4DC08264086D51D0A4CFA5ED05C337120AF9899206395418B4CE9BBC507564A	10/25/2016	10/25/2026
/C=US/O=Anthem, Inc./CN=Anthem Direct CA	F9ECB6EC9845F124392FE8C1B6BE0D18CB667834ADCF44DF8DFB316323673454	3/22/2017	3/22/2027
/C=US/O=GSI Health/OU=GSI Direct Messaging/CN=GSI Health Direct CA	812D54BEDF8EC9C7082EFD4B9FE5E44E420FEFDA282EB03D33DA77DEC5C0B5A5	10/25/2016	10/25/2026
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Federated ID L3 CA	9EB1E7AB3D9559088B9926A6569CFB645FBDC72A758815B1B1C78A0159FB6863	12/16/2019	2/28/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Federated ID L3 CA	504AEDFB9D65D11926B1352295737F31F687246E5A2D49634667795DA47958A	2/28/2019	2/28/2022
/C=JP/O=KYOCERA COMMUNICATION SYSTEMS Co.,Ltd./OU=Symantec Trust Network/OU=Class 1 Managed PKI Individual Subscriber CA/CN=DATACENTER CA - G2	EA70CA9465E25593BAB909A9DBF8F095C0B20BFBB54F1D185D464CCC8A431F4B	4/15/2014	6/6/2022
/C=JP/O=Bank Of Japan/OU=Symantec Trust Network/OU=Class 1 Managed PKI Individual Subscriber CA/CN=Gaitame CA - G3	D20118563ACC4AB2D1DF217E3974D00877F71D2B74959F43FED33C45EBF5FB31	9/6/2012	7/22/2022
/C=JP/O=Bank Of Japan/OU=Symantec Trust Network/OU=Class 1 Managed PKI Individual Subscriber CA/CN=Gaitame CA - G3	58F0778CB9969B09B24BDC96A03091B0AA98BAFF9C23F82B78B061035D85A65F	9/6/2012	7/22/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=JP/O=Symantec Japan, Inc./OU=Symantec Trust Network/OU=Class 1 Managed PKI Individual Subscriber CA/CN=Application Service CA	2B3188332031E548FE424A7A3ABB47701FA089D9D0EEAE35585CA72974BDA69C	4/28/2015	4/27/2022
/O=NTT DOCOMO, Inc./OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.co.jp/rpa(c)11/OU=Class 2 Managed PKI Individual Subscriber CA/CN=NTT DOCOMO Group CA - G2	A75939F270BA6F23ECEE83C70A3755EB46449FE2707FF01D626FB745158F9413	4/15/2014	8/15/2021
/C=JP/O=DAIICHI SANKYO COMPANY, LIMITED/OU=Symantec Trust Network/OU=Class 2 Managed PKI Individual Subscriber CA/CN=DAIICHI SANKYO COMPANY Public CA - G2	68361FD0131D79AC91C9939F3E5479CA32E2BE419A7CF519E026F992234509EE	4/15/2014	8/27/2022
/C=JP/O=Astellas Pharma Inc./OU=Symantec Trust Network/OU=Class 2 Managed PKI Individual Subscriber CA/CN=Astellas Global SMIME CA - G2	B2ED9A6D9B6C48DD1494EE0CD4802179F6208C7F75894DE2607E16573BE464AE	4/15/2014	10/22/2022
/C=JP/O=Symantec Japan, Inc./OU=Symantec Trust Network/OU=Class 2 Managed PKI Individual Subscriber CA/CN=Class2 Individual Certificate Service CA	9268449725E5DE18F8A76548BBEC1F8C845B17387590E1855BFFCA5B02CF6C28	1/22/2015	4/13/2024
/C=JP/O=The Financial Futures Association of Japan/OU=Symantec Trust Network/OU=Class 2 Managed PKI Individual Subscriber CA/CN=FFAJ Public CA - G2	FE27C2688969B46B83A585AAF53E009AD0D75B4DF64EAB9C085B8F3EBC8EF252	2/16/2016	2/15/2021
/C=US/O=Amazon/OU=Server CA 1B/CN=Amazon	4A1FF6BBF481170D3B773CEC1F3A84DE3B5096575CDBF8B08432209318CA0FBD	10/21/2015	10/21/2040
/C=US/O=Amazon/OU=Server CA 3B/CN=Amazon	ECC295B6DDCD084BA7179FB53BDD1D422CB6C0A8D94F154D4A5B17780B7279ED	7/16/2018	7/16/2028
/C=US/O=Amazon/OU=Server CA 1B/CN=Amazon	F55F9FFCB83C73453261601C7E044DB15A0F034B93C05830F28635EF889CF670	10/22/2015	10/19/2025
/C=US/O=DigiCert, Inc/CN=DigiCert QuoVadis TLS ICA QuoVadis RCA	A05FE4529A905424740BC61E773C7B82995118934E409421632397C1FE6D0948	1/6/2021	3/17/2021



DIGICERT, INC. MANAGEMENT'S ASSERTION

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

The management of DigiCert is responsible for establishing and maintaining effective controls over its EV SSL CA operations, including its EV SSL CA business practices disclosure on its [repository](#), EV SSL key lifecycle management controls, and EV SSL 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 EV SSL CA services. Based on that assessment, in DigiCert management's opinion, in providing its EV SSL CA services at California, Utah and Virginia, in the United States of America, and Kawasaki and Sapporo, Japan, DigiCert has:

- disclosed its EV SSL 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 EV SSL certificates in conformity with the CA/Browser Forum Guidelines on the DigiCert [repository](#), and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and EV SSL certificates it manages is established and protected throughout their lifecycles; and
 - EV SSL subscriber information is properly authenticated

throughout the period October 1, 2020 to September 30, 2021, based on the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL v1.7.3](#).

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

Bug ID	Summary	Opened	Closed	Resolution
1676003	DigiCert: Entity not verified in organizationalUnitName	11/8/2020	11/29/2020	Fixed
1675684	DigiCert: Private Keys Disclosed by Customers as Part of CSR	11/5/2020	12/15/2020	Fixed
1684442	DigiCert: SHA-1 intermediate issued after 2016-01-01	12/29/2020	3/6/2021	Fixed



Bug ID	Summary	Opened	Closed	Resolution
1693343	DigiCert: Failure to find and revoke key-compromised certificates within 24 hours	2/17/2021	3/19/2021	Fixed
1710444	DigiCert: Invalid stateOrProvinceName	5/10/2021	6/2/2021	Fixed
1710856	DigiCert: Invalid localityName	5/12/2021	6/2/2021	Fixed
1714439	DigiCert: Incorrect RegNumber-Org Type combination	6/3/2021	6/23/2021	Fixed
1727963	DigiCert: Truncation of Registration Number	8/27/2021	9/20/2021	Fixed

DigiCert, Inc.

DocuSigned by:

CFF89E6506D0438...

12/15/2021

Jeremy Rowley
Chief Product Officer



ATTACHMENT A - CERTIFICATION PRACTICE STATEMENT AND CERTIFICATE POLICY VERSIONS IN-SCOPE

Certificate Policies

Policy Name	Version	Effective Date
DigiCert Certificate Policy	5.7	September 14, 2021
DigiCert Certificate Policy	5.6	April 12, 2021
DigiCert Certificate Policy	5.5	March 11, 2021
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	5.7	September 14, 2021
DigiCert Certification Practices Statement	5.6	April 12, 2021
DigiCert Certification Practices Statement	5.5	March 11, 2021
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
CN=DigiCert SMIME ECC P384 Root G5; O=DigiCert, Inc.; C=US	E8E8176536A60CC2C4E10187C3BEFCA20EF263497018F566D5BEA0F94D0C111B	1/15/2021	1/14/2046
CN=DigiCert TLS RSA4096 Root G5; O=DigiCert, Inc.; C=US	371A00DC0533B3721A7EEB40E8419E70799D2B0A0F2C1D80693165F7CEC4AD75	1/15/2021	1/14/2046
CN=DigiCert TLS ECC P384 Root G5; O=DigiCert, Inc.; C=US	018E13F0772532CF809BD1B17281867283FC48C6E13BE9C69812854A490C1B05	1/15/2021	1/14/2046
CN=DigiCert SMIME RSA4096 Root G5; O=DigiCert, Inc.; C=US	90370D3EFA88BF58C30105BA25104A358460A7FA52DFC2011DF233A0F417912A	1/15/2021	1/14/2046
CN=DigiCert RSA4096 Root G5; O=DigiCert, Inc.; C=US	E46A392204A8DCA342A71C1CA9A60C9185B9A930370120C3B9C7E3856F0D8F3B	1/15/2021	1/14/2046
CN=DigiCert CS ECC P384 Root G5; O=DigiCert, Inc.; C=US	26C56AD2208D1E9B152F66853BF4797CBEB7552C1F3F477251E8CB1AE7E797BF	1/15/2021	1/14/2046
CN=DigiCert CS RSA4096 Root G5; O=DigiCert, Inc.; C=US	7353B6D6C2D6DA4247773F3F07D075DECB5134212BEAD0928EF1F46115260941	1/15/2021	1/14/2046
CN=DigiCert ECC P384 Root G5; O=DigiCert, Inc.; C=US	C1468CF2254E6004B24696ABA209D1A30BA6E2DFF68A9A4E32C6AB414F90C8D9	1/15/2021	1/14/2046
CN=DigiCert Client ECC P384 Root G5; O=DigiCert, Inc.; C=US	CD851C5C25467C0095A43927D0B2292D932975E84DCE4C5E794542C6574C3AA4	1/15/2021	1/14/2046
CN=DigiCert Client RSA4096 Root G5; O=DigiCert, Inc.; C=US	3AF21466920FA91FA31F4331E445C16BE2330024BFD2C239C0D85AB530714766	1/15/2021	1/14/2046
CN=GeoTrust Global CA; O=GeoTrust Inc.; C=US	FF856A2D251DCD88D36656F450126798CFABAAD40799C722DE4D2B5DB36A73A	5/21/2002	5/21/2022
CN=VeriSign Class 1 Public Primary Certification Authority - G3; OU=VeriSign Trust Network, (c) 1999 VeriSign, Inc. - For authorized use only; O=VeriSign, Inc.; C=US	CBB5AF185E942A2402F9EACBC0ED5BB876EEA3C1223623D00447E4F3BA554B65	10/1/1999	7/16/2036



Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Symantec Class 2 Public Primary Certification Authority - G6; OU=Symantec Trust Network; O=Symantec Corporation; C=US	CB627D18B58AD56DDE331A30456BC65C601A4E9B18DEDCEA08E7DAAA07815FF0	10/18/2011	12/1/2037
CN=DigiCert Global Root G2; OU=www.digicert.com; O=DigiCert Inc; C=US	CB3CCBB76031E5E0138F8DD39A23F9DE47FFC35E43C1144CEA27D46A5AB1CB5F	8/1/2013	1/15/2038
CN=GeoTrust Primary Certification Authority - G3; OU=(c) 2008 GeoTrust Inc. - For authorized use only; O=GeoTrust Inc.; C=US	B478B812250DF878635C2AA7EC7D155EAA625EE82916E2CD294361886CD1FBD4	4/2/2008	12/1/2037
CN=Symantec Class 3 Public Primary Certification Authority - G6; OU=Symantec Trust Network; O=Symantec Corporation; C=US	B32396746453442F353E616292BB20BBAA5D23B546450FDB9C54B8386167D529	10/18/2012	12/1/2037
CN=thawte Primary Root CA - G2; OU=(c) 2007 thawte, Inc. - For authorized use only; O=thawte, Inc.; C=US	A4310D50AF18A6447190372A86AF8B951FFB431D837F1E5688B45971ED1557	11/5/2007	1/18/2038
CN=Hotspot 2.0 Trust Root CA - 03; O=WFA Hotspot 2.0; C=US	A3CC68595DFE7E86D8AD1772A8B5284ADD54ACE3B8A798DF47BCCAFB1FDB84DF	12/8/2013	12/8/2043
CN=Symantec Class 1 Public Primary Certification Authority - G6; OU=Symantec Trust Network; O=Symantec Corporation; C=US	9D190B2E314566685BE8A889E27AA8C7D7AE1D8AADDBA3C1ECF9D24863CD34B9	10/18/2011	12/1/2037
CN=Cybertrust Global Root; O=Cybertrust, Inc	960ADF0063E96356750C2965DD0A0867DA0B9CBD6E77714AEA2349AB393DA3	12/15/2006	12/15/2021
CN=VeriSign Class 2 Public Primary Certification Authority - G3; OU=VeriSign Trust Network, (c) 1999 VeriSign, Inc. - For authorized use only; O=VeriSign, Inc.; C=US	92A9D9833FE1944DB366E8BFAE7A95B6480C2D6C6C2A1BE65D4236B608FCA1BB	10/1/1999	7/16/2036
CN=thawte Primary Root CA; OU=Certification Services Division, (c) 2006 thawte, Inc. - For authorized use only; O=thawte, Inc.; C=US	8D722F81A9C113C0791DF136A2966DB26C950A971DB46B4199F4EA54B78BF9F	11/17/2006	7/16/2036
CN=DigiCert Assured ID Root G3; OU=www.digicert.com; O=DigiCert Inc; C=US	7E37CB8B4C47090CAB36551BA6F45DB840680FBA166A952DB100717F43053FC2	8/1/2013	1/15/2038
CN=DigiCert Assured ID Root G2; OU=www.digicert.com; O=DigiCert Inc; C=US	7D05EBB682339F8C9451EE094EEBF7953A114EDB2F44949452FAB7D2FC185	8/1/2013	1/15/2038



Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert High Assurance EV Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	7431E5F4C3C1CE4690774F0B61E05440883BA9A01ED00BA6ABD7806ED3B118CF	11/10/2006	11/10/2031
CN=Verizon Global Root CA; OU=OmniRoot; O=Verizon Business; C=US	68AD50909B04363C605EF13581A939FF2C96372E3F12325B0A6861E1D59F6603	7/30/2009	7/30/2034
CN=GeoTrust Primary Certification Authority - G2; OU=(c) 2007 GeoTrust Inc. - For authorized use only; O=GeoTrust Inc.; C=US	5EDB7AC43B82A06A8761E8D7BE4979EBF2611F7DD79BF91C1C6B566A219ED766	11/5/2007	1/18/2038
CN=DigiCert Trusted Root G4; OU=www.digicert.com; O=DigiCert Inc; C=US	552F7BDCF1A7AF9E6CE672017F4F12ABF77240C78E761AC203D1D9D20AC89988	8/1/2013	1/15/2038
CN=Symantec Class 3 Public Primary Certification Authority - G4; OU=Symantec Trust Network; O=Symantec Corporation; C=US	53DFDFA4E297FCFE07594E8C62D5B8AB06B32C7549F38A163094FD6429D5DA43	10/18/2012	12/1/2037
CN=thawte Primary Root CA - G3; OU=Certification Services Division, (c) 2008 thawte, Inc. - For authorized use only; O=thawte, Inc.; C=US	4B03F45807AD70F21BFC2CAE71C9FDE4604C064CF5FFB686BAE5DBAAD7FDD34C	4/2/2008	12/1/2037
CN=DigiCert Global Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	4348A0E9444C78CB265E058D5E8944B4D84F9662BD26DB257F8934A443C70161	11/10/2006	11/10/2031
CN=DigiCert Assured ID Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	3E9099B5015E8F486C00BCEA9D111EE721FABA355A89BCF1DF69561E3DC6325C	11/10/2006	11/10/2031
CN=GeoTrust Primary Certification Authority; O=GeoTrust Inc.; C=US	37D51006C512EAAB626421F1EC8C92013FC5F82AE98EE533EB4619B8DEB4D06C	11/27/2006	7/16/2036
CN=Symantec Class 1 Public Primary Certification Authority - G4; OU=Symantec Trust Network; O=Symantec Corporation; C=US	363F3C849EAB03B0A2A0F636D7B86D04D3AC7FCFE26A0A9121AB9795F6E176DF	10/5/2011	1/18/2038
CN=DigiCert Global Root G3; OU=www.digicert.com; O=DigiCert Inc; C=US	31AD6648F8104138C738F39EA4320133393E3A18CC02296EF97C2AC9EF6731D0	8/1/2013	1/15/2038
CN=VeriSign Universal Root Certification Authority; OU=VeriSign Trust Network, (c) 2008 VeriSign, Inc. - For authorized use only; O=VeriSign, Inc.; C=US	2399561127A57125DE8CEFEA610DDF2FA078B5C8067F4E828290BFB860E84B3C	4/2/2008	12/1/2037



Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Baltimore CyberTrust Root; OU=CyberTrust; O=Baltimore; C=IE	16AF57A9F676B0AB126095AA5EBADEF22AB31119D644AC95CD4B93DBF3F26AEB	5/12/2000	5/12/2025



Cross-Signed Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Cybertrust Global Root; O=Cybertrust, Inc	E71D8C3BAF43F6B3352DF574A9F0D4A2065BF03DA179514B1FCC5D9BEC8C8FCD	12/3/2014	12/3/2024
CN=DigiCert Transition RSA Root; OU=www.digicert.com; O=DigiCert Inc; C=US	E52B44CD1E6A9ADA0A0409D1CC5D73A6F417603D70E6F5DC5483AB8ADAEF3CA4	11/2/2017	11/2/2037
CN=Verizon Global Root CA; OU=OmniRoot; O=Verizon Business; C=US	D96CBC03B523CD3315918651CF4862162887DD563AFB2352D3F34BB94576F93D	5/13/2014	5/13/2024
CN=Cybertrust Global Root; O=Cybertrust, Inc	D775784887CDBD7E9FCB2A9D589D367A0B6238DA1EAF51DC71C99B89B99229E0	4/23/2014	4/23/2021
CN=DigiCert High Assurance EV Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	CBF8FB77660167E6BAACD0DF77CDA397D0117EE2BEEA23B935317F8BB5B5E3B0	12/7/2016	5/10/2025
CN=thawte Primary Transition Root; OU=www.digicert.com; O=DigiCert, Inc; C=US	C5D814672CF65B953E6F69E702C7C23A5EBDA45796AA58834121DFB0D06C0846	12/8/2017	12/8/2037
CN=Verizon Global Root CA; OU=OmniRoot; O=Verizon Business; C=US	B90EEAE931E5E2B7D335F149DA6C2210986000D214FFDB62A72F7332D63731AF	4/9/2014	4/9/2024
CN=thawte Primary G3 Transition Root; OU=www.digicert.com; O=DigiCert, Inc; C=US	B8FFC04C86B15041DB8F3AADA47FEAF097E8590AAF28A0E59CDBADB7756A6634	12/8/2017	12/8/2037
CN=GeoTrust Primary Transition Root; OU=www.digicert.com; O=DigiCert, Inc; C=US	B89B256ACD7C8BFC5C136A8570575350219E9D55879A85A7EC0CC0C1283C24A3	12/8/2017	12/8/2037
CN=DigiCert Universal Transition Root; OU=www.digicert.com; O=DigiCert, Inc; C=US	AF0E363CAE6DF489F2976A284D12D4C33C94B135FA77F89E89298D7491E99974	12/8/2017	12/8/2037
CN=DigiCert Trusted Root G4; OU=www.digicert.com; O=DigiCert Inc; C=US	AD8EB32C9DA91DDC855F382745990147DC6F23D9FBB04FC9D476B1EE20FC71D8	7/1/2013	10/22/2023
CN=Cybertrust Global Root; O=Cybertrust, Inc	9F61D09768DA33F7F99F7E7EAD935902224943B4C9AD07B629F745C0B08475B7	4/23/2014	4/23/2021
CN=DigiCert High Assurance EV Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	89DAADB41BA698BB378AEE84EAC96121D20F8C2FCA63EC686D9307229AD3EB2E	6/18/2014	6/18/2021



Cross-Signed Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Universal Transition Root; OU=www.digicert.com; O=DigiCert, Inc; C=US	88A07073D4527069DC9E978053F35729705C058302648ED02E5FCE6561459E61	12/8/2017	12/7/2022
CN=DigiCert Transition Root G3; OU=www.digicert.com; O=DigiCert, Inc; C=US	7E6AF50A3A9DD01737204D912B7721F7C0809CCCE64284578992049AAACE34B0B	12/8/2017	12/8/2037
CN=DigiCert Global Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	6DACBB8945137B1DAD4211B0436EFBE06F12ACE36904973B45AE25740823D369	12/7/2016	5/10/2025
CN=Cybertrust Global Root; O=Cybertrust, Inc	64B3542D1BC972F58A1D179F3D0B9652BE434F3AE3842E0C447880D4D623A4DE	4/23/2014	4/23/2024
CN=DigiCert Transition ECC Root; OU=www.digicert.com; O=DigiCert Inc; C=US	45BF04DCA5DE7A6339F1DF835BC9013457B487FDB4308E4080C6423C8E4B2705	11/2/2017	11/2/2037
CN=Cybertrust Global Root; O=Cybertrust, Inc	24905145BD9B9BFE99C60354B49951BE0E709F1634CFBD0E370FEB9F068ED6C3	12/3/2014	12/3/2024



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Secure Auth CA2; O=DigiCert Inc; C=US	4759D6F4ED6DF0E08FC4CA801986E2BE10594DBAF341B4C45ABAF3748887D25	10/9/2020	10/8/2030
CN=Data Management Intermediate CA2; O=Fresenius Kabi AG; C=US	422F9D4E68134E362B7569E5298A173CEC40C7C7274B2263A9BC8ADA1D1A23FA	10/9/2020	8/25/2025
CN=DigiCert High Assurance TLS RSA SHA256 2020 CA1; O=DigiCert, Inc.; C=US	9BFED3D9DC95236BCFFCB35D4B120DB0E3867F62B1FD015A928DA0B303966683	12/17/2020	12/16/2030
CN=DigiCert High Assurance TLS Hybrid ECC SHA256 2020 CA1; O=DigiCert, Inc.; C=US	74EAB573DA7DB195097BE0E90F334934C7A4C89E8083759DB4333A00EDD243D9	12/17/2020	12/16/2030
CN=DigiCert TLS ICA SYMC PCA3-G6; O=DigiCert, Inc.; C=US	FDB351BDA2D821C3DFBB924A12D90D6DC760D5F6200144529E502E467BBF9ECC	1/8/2021	1/7/2031
CN=DigiCert TLS ICA SYMC PCA3-G4; O=DigiCert, Inc.; C=US	B1D1244218C903B64EBF42150C5FD891EB5B663CE6F20DD12E8352DD7D1E6693	1/8/2021	1/7/2031
CN=DigiCert TLS ICA Universal 2021; O=DigiCert, Inc.; C=US	23EE12A8DA9D38549C54A32BC1E4A18BAF1570488107D169EBD734DFDA330B0E	1/12/2021	1/11/2031
CN=Abbott Laboratories Secure Authentication CA G2; O=Abbott Laboratories Inc.; C=US	2697ACB96A49BE2BFC5C06C393949F0D8E75106AD6D4C73E2DA172A90831A85A	1/21/2021	1/20/2031
CN=DKB CA 101; O=Deutsche Kreditbank AG; C=DE	0E5B8040B3AB60A50D2D5FB11E19AEB2E45B564B335B79D773D42B81D8219C75	2/4/2021	2/3/2031
CN=CrowdStrike Global EV CA G2; O=CrowdStrike, Inc.; C=US	5EBD9874E6B88DA38F4A7B9566CE5D4DF05E0C224D94986AD8CC5EBA004A0C04	3/4/2021	3/3/2031
CN=HydrantID SSL CA D1; O=Avalanche Cloud Corporation; C=US	A847544CC3CD54E855CA39780C2162431F5C8E327EC66D5A43CF266877BEC50F	3/4/2021	3/3/2031
CN=HydrantID EV SSL CA D1; O=Avalanche Cloud Corporation; C=US	863472EC79DB54077114DADE720CE1F7B41A233748FC6773FA86520F0B9AAA21	3/4/2021	3/3/2031
CN=DigiCert Global Root G2; OU=www.digicert.com; O=DigiCert Inc; C=US	0BA8C0D459B76ABC0825294F565E24F4F169D4A4819D0692D371522D297724B8	3/4/2021	3/3/2031



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Giesecke and Devrient CA; O=Giesecke+Devrient GmbH; C=DE	0A4FF256B1A0A14BB81F318B64D47D6C36A4C3529F9C39299A47ED51A2B8EE52	3/11/2021	3/10/2031
CN=Abbott Laboratories Secure Authentication CA G3; O=Abbott Laboratories Inc.; C=US	ABFD261AB3733480BF58616991FFE266B6DB315E226A32339702D6C0BE6B96F2	3/11/2021	3/10/2031
CN=Alaska Permanent Fund Corporation Public CA G1; O=Alaska Permanent Fund Corporation; C=US	CD662FFFCE76F071BE918AECE125F9B54873479F3AF8C3545DB330E28F92B035	3/11/2021	3/10/2026
CN=DigiCert PKI Platform AATL CA; O=DigiCert, Inc.; C=US	7E15A84E1A0927AED136C59A048AE48E63BA82EDAA9827892C105A9A89BDE659	3/11/2021	3/10/2031
CN=DigiCert High Assurance CA-3b; O=DigiCert Inc; C=US	28506E33F55A6072115F3E04C9BDBF5AF5312CA8FC132508B97AC99FEE0516E8	3/30/2021	3/29/2031
CN=Aetna Inc. Secure CA2; O=Aetna Inc; C=US	428B87B8061A79ABA75877FD0383ADB831A1459B86BC408CE7D8D17B295B75BB	3/30/2021	3/29/2025
CN=Aetna Inc. Secure EV CA; O=Aetna Inc; C=US	8B6CCC3BE92F0121E6494AC704BF0B9B9CEBBA2E363C8E8122D90984D3EBF386	3/30/2021	3/29/2025
CN=Bloomberg TLS CA; O=Bloomberg LP; C=US	F5F1A8C04E5CF0FDB678DD279994463E48508C4349643B0D92CBFD7523F6C40A	3/30/2021	3/29/2031
CN=HydrantID EV SSL CA D1; O=Avalanche Cloud Corporation; C=US	F9D4A6C011E9C6A8F5A4CF7ED0416869C7238EF93A56161EA6CA3D8B41716097	3/30/2021	3/29/2031
CN=CrowdStrike Global EV CA; O=CrowdStrike, Inc.; C=US	86B109232C19EC514F8CB26788E65090293F96DD8D2942017A33035AB225D5FB	3/30/2021	3/29/2031
CN=CrowdStrike Global EV CA G2; O=CrowdStrike, Inc.; C=US	9ED1EDEA95AA5B72B513A3E41A1BA0D2EFB14CEC88891E34D00495C95556605C	3/30/2021	3/29/2031
CN=DigiCert Global G2 TLS RSA SHA256 2020 CA1; O=DigiCert Inc; C=US	C8025F9FC65FDFC95B3CA8CC7867B9A587B5277973957917463FC813D0B625A9	3/30/2021	3/29/2031
CN=DigiCert Global G3 TLS ECC SHA384 2020 CA1; O=DigiCert Inc; C=US	699ED65BDD3D5E790776D165EA7A325B7AEAF419647921A92FF28BB0680D72BA	3/30/2021	3/29/2031



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert High Assurance TLS Hybrid ECC SHA256 2020 CA1; O=DigiCert, Inc.; C=US	5D270CB4EFF587AD6CD17CB2B60D9084A153D77D2AA79A2CB3DB1DDB904684F5	3/30/2021	3/29/2031
CN=DigiCert High Assurance TLS RSA SHA256 2020 CA1; O=DigiCert, Inc.; C=US	495E6624A15340C4C74AB86037748AD62D1EF4F14E7C81AB7CDB629BE1404757	3/30/2021	3/29/2031
CN=DigiCert Trusted G4 TLS RSA SHA384 2020 CA1; O=DigiCert Inc; C=US	1E29690F957F64BA9C3658A31055751AACD4B440A9589DFA1D780FE07069DB52	3/30/2021	3/29/2031
CN=DKB CA 101; O=Deutsche Kreditbank AG; C=DE	D889A2641F5DF941353817C87A5CD0D9CDACED3886240BFB937329E94D3A45B	3/30/2021	3/29/2031
CN=Plex Devices High Assurance CA3; O=Plex, Inc.; C=US	1316ED42A849217D51CFB4DE1A1418A8D3A77902FB305D3024F72D4636B82FF0	3/30/2021	3/29/2025
CN=DigiCert Global G3 TLS ECC SHA384 2020 CA1; O=DigiCert Inc; C=US	0587D6BD2819587AB90FB596480A5793BD9F7506A3EACE73F5EAB366017FE259	4/14/2021	4/13/2031
CN=DigiCert TLS Hybrid ECC SHA384 2020 CA1; O=DigiCert Inc; C=US	F7A9A1B2FD964A3F2670BD668D561FB7C55D3AA9AB8391E7E169702DB8A3DBC	4/14/2021	4/13/2031
CN=DigiCert TLS RSA SHA256 2020 CA1; O=DigiCert Inc; C=US	52274C57CE4DEE3B49DB7A7FF708C040F771898B3BE88725A86FB4430182FE14	4/14/2021	4/13/2031
CN=DigiCert G5 TLS RSA4096 SHA384 2021 CA1; O=DigiCert, Inc.; C=US	EF9296036A6D7C986C8D59DB936093E78E85C70AEDB4FE7A54DDCAA821031C72	2/11/2021	2/10/2031
CN=DigiCert G5 TLS RSA4096 SHA384 2021 CA1; O=DigiCert, Inc.; C=US	C6270A150691FBE190D831F5139BDFEECF7B298B4FA0CA17306A69D7E91E7BA2	4/14/2021	4/13/2031
CN=DigiCert G5 TLS ECC SHA384 2021 CA1; O=DigiCert, Inc.; C=US	E5A1C1919E3BEAEE5935A8485DDCE0E3F01A2618DB0F0793B3DB3D9AC2D967C7	2/11/2021	2/10/2031
CN=DigiCert G5 TLS ECC SHA384 2021 CA1; O=DigiCert, Inc.; C=US	97A073957C5812725757672F222690655A1407D71011EDFC8B2FADC5128911DA	4/14/2021	4/13/2031
CN=DigiCert Baltimore TLS RSA SHA256 2020 CA1; O=DigiCert Inc; C=US	701317250210AB91280527C3B436931015B8DCEE69A6893ADA4FFAD25A6FE44F	4/22/2021	5/12/2025



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert One AATL CA; O=DigiCert Inc.; C=US	419507E46D6520ECEC453A0C2B5292A099431C35E8967A6D0EE573CAAB116C71	4/29/2021	4/28/2031
CN=DigitalSign CA - G5; O=DigitalSign - Certificadora Digital SA; C=PT	7AA50B4EACCB422A19EF8597A71D56CB8E6910CFA4DD9BDDFAB1EFE7BCB7801F	7/7/2021	7/6/2031
/C=US/O=DigiCert, Inc./CN=DigiCert QuoVadis TLS ICA QV Root CA 1 G3	C42A4D8C0904BB211906F43B441BBBC9B5A003BA3611879FD34AE576F7C2F764	1/6/2021	1/4/2031
/C=US/O=DigiCert, Inc./CN=DigiCert QuoVadis TLS ICA QuoVadis Root CA 2	673E8FEEB1168277D0153111D20ED38E9DA51F440BE7FD50B218540937741A48	1/6/2021	1/4/2031
/C=US/O=DigiCert, Inc./CN=DigiCert QuoVadis TLS ICA QV Root CA 3	D8CC89C6AA6B7452881907927C81E66DA01A7598CF7674E4E2E133F16546D5F0	1/6/2021	1/4/2031
/C=US/O=DigiCert, Inc./CN=DigiCert QuoVadis TLS ICA QV Root CA 3 G3	728E4BD2B399840E9D437AF975B0198910B4129B7AB708CB5C0B445D3B04D999	1/6/2021	1/4/2031
/C=US/O=DigiCert, Inc./CN=DigiCert G5 ECC SHA384 2021 CA1	4E1AB9F0122809E2A8E93133187AF26E71C9C3BF86971065D578FC4C08AF79	3/11/2021	3/10/2031
/C=US/O=DigiCert, Inc./CN=DigiCert G5 ECC SHA384 2021 CA1	7A2311B472B99171164FFA0BCA3FA7AC9AC46D035657BFC1EA133095C9703933	4/14/2021	4/13/2031
/C=US/O=DigiCert, Inc./CN=DigiCert G5 RSA4096 SHA384 2021 CA1	A11C3BC528FFE2BCEC915A5B3437D4269AD74156E0166B47A1D5F141735104FD	4/14/2021	4/13/2031
/C=US/O=DigiCert, Inc./CN=DigiCert G5 RSA4096 SHA384 2021 CA1	C68B6C455593E7CE57383A736517CA46FE86641E46BDFB25C12E41E17DE53B59	3/11/2021	3/10/2031
CN=WFA Hotspot 2.0 Intermediate CA; O=Wi-Fi Alliance; C=US	FEA342D00D1A355CF51569EF7E0F617ABB0F22D6D1E73DAA11DCB4D407975543	11/25/2013	11/25/2023
CN=KibsTrust Certification Authority; OU=Symantec Trust Network; O=KIBS AD Skopje; C=MK	FE56D842A2A2B903E050971480E7DEA2CD85E427F367150BC449C640C3B0245B	10/13/2015	10/12/2025
CN=DigiCert ECC Extended Validation Server CA; OU=www.digicert.com; O=DigiCert Inc; C=US	FDC8986CFAC4F35F1ACD517E0F61B879882AE076E2BA80B77BD3F0FE5CECF8862	6/21/2016	6/21/2031



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=TERENA eScience Personal CA 3; O=TERENA; C=NL	FDA947208BFA3203A6C57B8714A647B7009E5168E88951345450B1D2D3F91A7D	11/18/2014	11/18/2024
CN=Telenor Norge AS Test OTL CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	FD9A6C86AE90E3F7D5511EF968357B0D0D74FEC0C71C037CC9B29F3F2940F9F9	4/5/2012	4/4/2022
CN=Object Signing CA; OU=VeriSign Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Oracle Corporation; C=US	FD70A50412710BB79FB42BD39785DC4780ED732A158296251A6DAFBCC0602698	8/11/2011	2/6/2021
CN=RapidSSL TLS ECC CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	FC16D53203BD9187D69CC99D2DA551076B4DCB298140D6751F7A012966C99FDD	11/2/2017	11/2/2027
CN=GeoTrust EV ECC CN CA G2; O=DigiCert Inc; C=US	FC01B58FC78B9C59211784C2E25BF1D012A1E23F337218847A62EB4145EE4AB6	3/4/2020	3/4/2030
CN=Plex Devices High Assurance CA3; O=Plex, Inc.; C=US	FB6060848440AA4594FE8109741EFAB40C56732B26C67C36D6DC945BB2FE13CF	9/24/2020	5/19/2025
CN=DC Government SHA2 Assured ID Intermediate CA; OU=Office of the Chief Technology Officer; O=Government of the District of Columbia; C=US	FB1147E7AB97A29BB9C1140ABF3DE831F4C5F60D11B90FEC999A0816375D8457	7/13/2017	7/13/2027
CN=DigiCert Baltimore CA-2 G2; OU=www.digicert.com; O=DigiCert Inc; C=US	F9690880819F06CDDC0B2F224B207F2AF6003FB57339B8679A160FA95208D62D	12/8/2015	5/10/2025
CN=Blue Cross Blue Shield of Florida CA G2; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Blue Cross Blue Shield of Florida; C=US	F85A6F15474371B4CACB753CC09C3BED7139E9C35B21E95771C227297FF025E2	3/1/2011	2/28/2021
CN=Hostpoint TLS RSA CA; OU=Domain Validated SSL; O=Hostpoint AG; C=CH	F7FBDEB82BE99D41CDCA419FC91859D3E5286C076204E0E903D678BB213ED89B	11/2/2017	11/2/2027
CN=GeoTrust Primary Issuing CA; OU=www.digicert.com; O=DigiCert, Inc; C=US	F7A84E24E8E0D89154874721C5B641F48A1EF0FF3B198F53BE021DB53F097BD0	12/8/2017	12/8/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=OFAC VPN CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=OFAC Societe Cooperative; C=CH	F7720B968EE05292842A5AA13F4DB9A02F67DADC7340CDC28A17BEB1AA5A7322	9/6/2011	9/5/2021
CN=DigiCert Global CA G3; O=DigiCert Inc; C=US	F7541CF69D1DE1AC953ABC1FAD6F7807A34EDFE9E12C11E66A195930C23AD6C6	8/1/2013	8/1/2028
CN=Thawte EV ECC CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	F74C3B2C7E455D654D9EE5AAA712789CCB267B961C1A1CE48A69C860CD193678	11/6/2017	11/6/2027
CN=WoSign EV Code Signing Pro CA; O=WoSign CA Limited; C=CN	F6DFDED61FF88EF10B9E6DCFBCE0F1615E05866CEBAFCD6D48AEE80132C70347	5/23/2017	5/23/2027
CN=thawte Primary Issuing CA G3; OU=www.digicert.com; O=DigiCert, Inc; C=US	F6CF5D6FF850D14DB082CC9CF7C056BC60E36B1E54F1CCA3E24BDF393948978D	12/8/2017	12/8/2027
CN=Symantec Web PKI RSA Root - G1; OU=Symantec Trust Network; O=Symantec Corporation; C=US	F6BB5B7985A8736594C14679FA31603814502AAEB5F4282A69985DC84A450777	9/21/2017	9/20/2042
CN=Secure Site CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	F614AE2B101484F15F66F4DDA56EE6EB422728F179D94399EDE19AC1D85A8BD3	6/20/2019	6/20/2029
CN=Thomson Reuters - LEDO CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Thomson Reuters Holdings Inc.; C=US	F5DF7A85240E93C602EE9C6F77C2B126C7A37CED8F34DD714B82C47F31F3544D	12/20/2016	12/19/2026
CN=SecurityMetrics DigiCert CA; OU=www.securitymetrics.com; O=SecurityMetrics; C=US	F32DEAF22CE724661F53D5287311AFF2541EB38ECAFA9DD877B94023E3A11B1F	10/30/2012	10/30/2022
CN=DigiCert Trust Service ECC CA; O=DigiCert Inc; C=US	F269AC00B410003F72DC628AFB3D950279630C7C5D0C82148A0FD24DF4DA4301	3/4/2020	3/4/2030
CN=TrustAsia ECC OV TLS Pro CA; O=TrustAsia Technologies, Inc.; C=CN	F1CACA6AB2350A7668C13E41960908681DAFCC7E368DCB8D47FEFCF9631390481	4/27/2018	4/27/2028
CN=DC Government SHA2 EV Intermediate CA; OU=Office of the Chief Technology Officer; O=Government of the District of Columbia; C=US	F12241EE34C03A608D34DBC0EA465E1BD1AA13091554F9D4D086253FF3CE83D4	7/13/2017	7/13/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Federated ID L4 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	EFB2A3F37273D3589047919825EA5337E9B938A8C178B61C18C2B4270B9665AC	10/30/2012	10/30/2022
CN=DigiCert Secure Site Korea ECC CA; OU=www.digicert.com; O=DigiCert Inc; C=US	EF9138993654DF92D2FB5860E28DE8818A9F49DB56ECB689A67A7FC2D5881DD2	3/25/2019	3/25/2029
CN=DigiCert EV Code Signing CA (SHA2) G2; OU=www.digicert.com; O=DigiCert Inc; C=US	EDCD88B6BD77FC8A2680E2ECB8FFBAC45898DFA0FDE983425E0F1BEB058C04B6	7/18/2018	7/18/2028
CN=ADACOM Class 2 CA - G4; OU=Symantec Trust Network; O=ADACOM S.A.; C=GR	EC28782BFDB997875946D078C3A9C6481D34D5F775D29F0F8CB80010C9331398	12/9/2014	12/8/2024
CN=DigiCert Federated ID US L3 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	EB84FC0B403D9B689297A5D83EA186838E3B777BC618EFDA162A75B7FEA666C1	1/8/2014	1/8/2023
CN=MHIN Direct CA; OU=www.mhin.com; O=Michiana Health Information Network; C=US	EAEFE08D568E7F6CF6D892CAB6A22E14F20C6F10E3A418CFB42B12309333367	1/8/2014	1/8/2024
CN=MSC Trustgate.com Class 2 CA - G2; OU=Symantec Trust Network; O=MSC Trustgate.com Sdn.; C=MY	EACB06CBB7B251C6BF464DB4B670DCCDC9254C9AF3938C110CEE74D00EA0A263	9/29/2011	9/28/2021
CN=Enterprise Services CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Adobe Systems Incorporated; C=US	EA78912AE2E15549DDA02D74CC05A18DADC218DD05C13F045B26433D23732F33	10/16/2012	10/15/2022
CN=Thawte EV ECC CN CA G2; O=DigiCert Inc; C=US	EA1F3BFB4D3296B467D4B582559D6518D676D5AFC7D1C24BE80252F79191046F	3/13/2020	3/13/2030
CN=DigiCert High Assurance Trust Service ECC EV CA; O=DigiCert Inc; C=US	E9529B428FB67390BC6455D79BA2434E816C54FE4F359930CB709DB256FDDF94	3/4/2020	3/4/2030
CN=Symantec Class 2 MPKI Individual Subscriber CA - G3; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Symantec Corporation; C=US	E79BACE9FF58B8EE6D3BD94AE8ADB13DF42DFD86B3701BFF8EDFF5C4E84BAE91	11/15/2016	11/14/2026
CN=RapidSSL TLS DV RSA Mixed SHA256 2020 CA-1; O=DigiCert Inc; C=US	E6FA484A858940D101978555454AA466531AB6C4ABC4AD2B000626AAAC0D04F9	7/16/2020	5/31/2023



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=OFAC VPN CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=OFAC Societe Cooperative; C=CH	E67E5B407C8B01698049F45F3A6F7721A68FE125C1275989460AC14C10E61BAC	9/6/2011	9/5/2021
CN=DigiCert Assured ID Code Signing CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	E57208CBFD286CE9718267E44491CB5B435C95BB09DC9720F5B64B25AC7974CD	2/10/2011	2/10/2026
CN=GeoTrust RSA CN CA G2; O=DigiCert Inc; C=US	E3C24279DD6A337F881B1BC692E878F4A31AFE95851F208F94800B0C24D88C38	3/4/2020	3/4/2030
CN=MRO Direct Intermediate CA; OU=MRO HIE Solutions; O=MRO Corporation; C=US	E25DE970AA8B685CDF55417897F65DE64C63A55D61EE9E4B830261DCFBFFFB4	10/21/2014	10/21/2024
CN=TERENA eScience SSL CA 3; O=TERENA; C=NL	E1BE6BBBB70F5A241E736FC44C6A2160BF6CE19B95EDD67BF7BE896E83778745	11/18/2014	11/18/2024
CN=Symantec Class 3 Secure Server SHA256 SSL CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	E0898AD662474B9F753C79BEA878031C9A5D634A49EDD6310B960AB023C02C0E	4/9/2013	4/8/2023
CN=Symantec Basic DV SSL CA - G2; OU=Symantec Trust Network, Domain Validated SSL; O=Symantec Corporation; C=US	DFE583E3A1ED35E57D95104817AD823C055FB9071CD400435B5FC74E692081DB	6/7/2016	6/6/2026
CN=Enterprise Premium Public CA; O=Mitsubishi Electric Information Network Corporation; C=JP	DF025DCE2A36411BE5EB6590C161EFD2652EC2B3F70D5C651F90D023C46F3A00	6/9/2020	6/9/2030
CN=Aetna Inc. Secure CA2; O=Aetna Inc; C=US	DDCBB4F3051D6E601310EB0E46B5BB99C5E8B99F7A539E367A987DEA030E318E	9/24/2020	12/9/2024
CN=TERENA Personal CA 3; O=TERENA; C=NL	DD4E0C17900F3FC2A5B7B773AE40218AD73216B5CE5D285EBFFCE8830D0F034A	11/18/2014	11/18/2024
CN=DigiCert High Assurance CA-3; OU=www.digicert.com; O=DigiCert Inc; C=US	DCB400ACC249FB88483415FC2650BC90488CA96643118CB0E4F4424B21C3AA5A4	10/12/2011	4/3/2022
CN=APMM Certificate Authority; OU=VeriSign Trust Network; O=APMM A/S; C=DK	DC6E4F6022E9FCC946BC7D36EEC384666B644C087196399E5A2DA96FF1159045	9/22/2011	9/21/2021



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=KIBS Verba CA; OU=VeriSign Trust Network; O=KIBS AD Skopje; C=MK	DC6D1DAF475DD116449FDF69FE8DE710698854292A1767DC73364644A5B345AE	2/23/2010	2/22/2025
CN=TrustAsia OV TLS Pro CA G2; O=TrustAsia Technologies, Inc.; C=CN	DBDFA91ACC4DB8AD83FCC7978E35D62F6E32E55108273C8EC998E3133580D664	6/20/2019	6/20/2029
CN=Abbott Laboratories Secure Authentication CA; O=Abbott Laboratories Inc.; C=US	DB99A4F284CCF10B26DE7B7A5D651725B857CBC871EBB33028D67B55510EFC9D	8/23/2016	8/23/2026
CN=Rush Health CA; OU=Orion Health Direct Secure Messaging; O=Rush Health; C=US	DB12B1D3F8CC52FFF4874F0A8B85E9FB6A2050861B1B1C61481A743AC0D33D5A	4/23/2014	4/23/2024
CN=DigiCert Extended Validation CA-3 G3; OU=www.digicert.com; O=DigiCert, Inc.; C=US	DA7E5778F62F87655B8FD24A89E651E57329DC9C0765A71158CE56443CA44E95	11/12/2019	11/12/2029
CN=Secure Site Pro ECC CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	DA3BE2B6A6D9715C1295A42BE526E0001D10E5D7540F06E7631B34E644934848	6/20/2019	6/20/2029
CN=Telenor Norge AS Test NF CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	D9E9093FBD728E05240FDB4D0DF46B7BEB9AB7E9554D30CB49D4681D6344C75F	6/19/2012	6/18/2022
CN=Bridgewater Associates CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)10, Class 2 Managed PKI Individual Subscriber CA; O=Bridgewater Associates, LP.; C=US	D8E79EBED997B764E6D0DF624F2DBB4EFF2A1B6049C6F1A1A1E88263C43DB221	10/12/2010	10/11/2020
CN=GeoTrust ECC CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	D8E269A6EB08CBC337AD6578C72135787484C99D2FB08CCED029E806BE1040FC	11/6/2017	11/6/2027
CN=DigiCert TLS Hybrid ECC SHA384 2020 CA1; O=DigiCert Inc; C=US	D79A2D5E03295C0E9FEAE36D021EBD5209700AB1A9E817A43F30FA3C66F78D21	9/23/2020	9/22/2030
CN=DigiCert Assured ID TLS CA; OU=www.digicert.com; O=DigiCert Inc; C=US	D7737E5F2D3FFCA429902E9F388CFD6C5959CD35A0FC103CEE2F7E93D1C66A52	2/9/2018	2/9/2030
CN=Thawte Class 3 ECC CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	D7642057CA17E00635CC41053F14919984888E6570BE2D966A1FAE83A64A4E30	11/2/2017	11/2/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Symantec Japan Class 1 CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	D6A3574E4C2AA2D15397D5A9BEFCF8380910CC0148BAB86A0B9FF40E2659BCE8	4/15/2014	4/14/2024
CN=DigiCert Basic EV ECC CN CA G2; O=DigiCert Inc; C=US	D619F3257B98756D28811D3CEE9ADAD8BCAE1B4367BBB0C73F6B5E558FBA4563	3/4/2020	3/4/2030
CN=Adobe Analytics - DigiCert CA; OU=Adobe Systems Incorporated, DMBU; O=Adobe Systems Incorporated; C=US	D5C009312F845C5EC8506EAD560D62447BFF4A60A9C25210511217AD6DE76AED	4/18/2013	4/18/2021
CN=ALPHA BANK CA - G2; OU=Symantec Trust Network; O=ALPHA BANK; C=GR	D4F4E97198211E5D9E80284EE4DFA1CEBF4DFCABFDD3265FCF3D642512D4FCC7	7/12/2016	12/7/2024
CN=DigiCert Baltimore EV CA; OU=www.digicert.com; O=DigiCert Inc; C=US	D46931E0182DD655EA0C16E6DD99F8E61AFFE401F734C6CA8EA0056A968EAF81	10/14/2015	5/10/2025
CN=Fannie Mae Shared Online CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Fannie Mae; C=US	D39495B310669DC6BFF57D547C53E3FF9E7B452BB609272C981F514CCA0B146F	12/20/2016	12/19/2026
CN=Secure Site CA; OU=www.digicert.com; O=DigiCert Inc; C=US	D3533B732A518A6DA68EF266085E11DFD114C0EB0092CD43530A44D54B913ED1	2/9/2018	2/9/2030
CN=Orion Health Direct Secure Messaging Public HISP CA; OU=Orion Health Direct Secure Messaging; O=Orion Health Inc.; C=US	D34138ED1458AE7DE4EDEA36ED3992E4F46E6EC9CF1E633E538DE9FF0F38F8E5	10/22/2013	10/22/2023
CN=KeystoneHIE KeyHIE CA; OU=Orion Health Direct Secure Messaging; O=Keystone Health Information Exchange (KeyHIE); C=US	D1C2009D472835AFBA94CC8ACB06DD0C727138AE1E73834394D27B0C06CF1265	8/19/2014	8/19/2024
CN=TrustAsia OV TLS Pro CA G3; O=TrustAsia Technologies, Inc.; C=CN	D0E8A51ACAAB9AF82767E2EF16543C2CC635551B5DE0DAE25D6AAC71E7862870	3/13/2020	3/13/2030
CN=Brown Brothers Harriman & Co. CA - G2; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Brown Brothers Harriman & Co.; C=US	CFBF988B04B41842824B287999092EB3AB6CD8DFCEB49BD3D5D48345A5B4818B	2/8/2011	2/7/2021
CN=Wells Fargo Public Trust Certification Authority 01 G2; OU=Organization Validated TLS; O=Wells Fargo & Company; C=US	CF7CFA4F9DBCCBCA6D20EFDEBEAD4E173B34E76BDA1EB1E619F44E06E95FC208	11/15/2017	11/15/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Symantec Class 1 Individual Subscriber CA - G4; OU=Symantec Trust Network, Persona Not Validated; O=Symantec Corporation; C=US	CF47B370761E9CA40096CBDB0C34B61429957E410780339A0D005D73E371204E	9/1/2011	8/31/2021
CN=Attorney Generals Department Public CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Attorney Generals Department; C=AU	CEF711147D8B0A1DC5200B8383BED23C1D294F2F89EBFE179D2501EA5E24AB8A	7/21/2015	7/20/2025
CN=A.P. Moller - Maersk Certification Authority; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa(c)11 , Class 2 Managed PKI Individual Subscriber CA; O=A.P. Moller - Maersk A/S; C=DK	CDC453969304BEE6A58D9BABC0AAC4C4CE2156A1C172A2585E546079144E4E58	5/3/2011	5/2/2021
CN=Cisco Meraki CA2; O=Cisco Systems, Inc.; C=US	CDBCBEF16E37237702FACC4B55D3AB92A17CFA17835E13377AA4D2BA0FD47A02	9/24/2020	7/12/2026
CN=Corepoint Direct Intermediate CA; O=Corepoint Health; C=US	CD2640957CF88610470CEFD409D85D9BE05962F7D6C2999C4F431ABCCC34118C	1/14/2015	1/14/2025
CN=Mirth Direct Intermediate CA; OU=NextGen Share; O=Mirth; C=US	CC9FAAD83C3350943D4E45FA416C4F8BC564F7AA94CF4B2D2BCE74209D0464C9	9/26/2014	9/26/2024
CN=DigiCert Class 3 ECC CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	CBAE2767EE8CD7FB49B662B422F721DB4522EB674CDBF16CB6209E45CC4CB99E	11/2/2017	11/2/2027
CN=DigiCert Basic RSA CN CA G2; O=DigiCert Inc; C=US	CB57B3FF2040CB269497625BC90FA9D7B4ED4938C6F60F42F69AFDF508AC2993	3/4/2020	3/4/2030
CN=Symantec Class 2 Shared Intermediate Certificate Authority; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa(c)11 , Class 2 Managed PKI Individual Subscriber CA; O=Symantec Corporation; C=US	CB387E392A90E8B1A382BE8EDB9E7B2943E9002F73A563F18B06142218F1118C	3/3/2011	3/2/2021
CN=IBM Certification Authority G3; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=International Business Machines Corporation; C=US	CB16C58F10AFFDA46A0FC05BF49F0B707C579EC52E3527EEBA0448F9B8C16E99	11/10/2016	11/9/2026



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=KPN Class 2 CA; OU=Symantec Trust Network; O=KPN B.V.; C=NL	CABB66C975781962D732B9312EF3908CA3ED6F5CBB76D6322E5EA2B47836F4D3	2/11/2016	2/10/2026
CN=DigiCert Federated ID L1 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	CAB016C5EA32061BD065FE13A55A40FA61058B27B34A7F8D175F7101EE063E3B	10/30/2012	10/30/2022
CN=TERENA SSL CA 3 G3; O=TERENA; C=NL	C9D6913F3FEDDEFF184C9EE1D7E17C5AEC90886EED5CC3D6E98105831C8C0E0B	12/9/2014	12/9/2024
CN=Autoridad Certificante Banco Itau Argentina - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Banco Itau Argentina S.A.; C=AR	C951DAECBDC59763C6681825DBED0780C3E8921E1E76E9AAD3146F1B0C18F9B9	1/19/2016	1/18/2021
CN=GeoTrust EV CN RSA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	C87CE03AFFB5DE6319C219971F2ED2D8F6F5389E2D53B22DD2C562A5C9827FC0	6/20/2019	6/20/2029
CN=Autoridad Certificante CertiSur; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=CertiSur S.A.; C=AR	C856F854F6FC94EC4D496E6CDAE6C66AA2D8CAFD87C928B9898E327B962A3F	4/28/2016	4/27/2021
CN=RapidSSL RSA CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	C790B47128447EC0B60F22BFCB795D71C326DD910EE12CBB4CC5A86191EB91BC	11/6/2017	11/6/2027
CN=Telenor Norge AS OTL CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	C7367403CF6D5C13D9690187926EF896CE6E74135080C9AFD8C8B1532467AE50	4/5/2012	4/4/2022
CN=DigiCert Provisional Direct Med CA; OU=www.digicert.com; O=DigiCert Inc; C=US	C61029C8EEE3CE08755D562BB50C5F75E0EF849214970B13BD99185367D1D119	6/3/2014	6/3/2024
CN=North Carolina Health Information Exchange CA; OU=Orion Health Direct Secure Messaging; O=North Carolina Health Information Exchange; C=US	C4A842434ADB52809526B6D1E869A265F535B69BB16454A301667CC942678D58	3/5/2014	3/5/2024
CN=NRC Basic CA G2; OU=External Basic; O=U.S. Nuclear Regulatory Commission; C=US	C40D6AB75F7E5D11CF7B0404AC7E4321A7A8B0DDF7631328F3D7CC80D6644E2B	3/21/2013	3/19/2023
CN=Oracle Root CA; OU=VeriSign Trust Network; O=Oracle Corporation; C=US	C40469CF7C6561AF3288E2FFDD439AC4F0C9CEA933597C07D0D510FC820282AD	2/8/2011	2/7/2021



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Secure Site Pro Extended Validation ECC CA; OU=www.digicert.com; O=DigiCert Inc; C=US	C3804DE51E8C17052220AE1CAD3D383E54D5B7DC28843C42F0DBD9913C1E8658	4/27/2018	4/27/2028
CN=Cybertrust Japan Secure Server ECC CA; O=Cybertrust Japan Co., Ltd.; C=JP	C3683F7D91754219DADA4E8DC30E4B18BD3928B53D3AB93D07384BC5871CE355	7/13/2017	7/13/2032
CN=E-Sign SC Class 2 Consumer Individual Subscriber CA - G2; OU=Symantec Trust Network; O=E-Sign S.A.; C=CL	C34A5709122DC9EAF3021B979D4843FBB41C5B24326BECE84D2F686675A1B6EC	11/15/2012	11/14/2022
CN=DigiCert Assured ID Intermediate CA (SHA2); OU=www.digicert.com; O=DigiCert Inc; C=US	C2B4BBEF4A1A643F334ED0850F928876D2AE3AE3642B986014D68C673C04D081	12/7/2011	12/7/2026
CN=DigiCert SHA2 Secure Server CA; O=DigiCert Inc; C=US	C1AD7778796D20BCA65C889A2655021156528BB62FF5FA43E1B8E5A83E3D2EAA	9/23/2020	9/22/2030
CN=Postecom CS4; OU=Servizi di Certificazione; O=Postecom S.p.A.; C=IT	C1685683F3C8590E88580197F219CAB99E5482A1568635F596D09867B2F405BD	4/26/2016	4/26/2023
CN=TERENA Personal CA 3 G3; O=TERENA; C=NL	C123F5AFACC9F9096809850355E5BF78CA9377348111B5167A964DDEDC044DE9	12/9/2014	12/9/2024
CN=PT Astra Daihatsu Motor CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=PT Astra Daihatsu Motor; C=ID	C0F393D5027D52A5643A2E38D4F79B1D958D40FB6CDF1AC2571CE61004BDED26	5/31/2016	5/30/2021
CN=TrustAsia ECC EV TLS Pro CA G2; O=TrustAsia Technologies, Inc.; C=CN	C0DD060FF8CE556F35683D564E0E66B2907178808693F83F3AA642326BF6D0C8	6/20/2019	6/20/2029
CN=DigiCert High Assurance CA-3; OU=www.digicert.com; O=DigiCert Inc; C=US	COA4A1AC05E03096A3B2AB8A38502B39E2614E11397BEE73D0A66B8ACEF7A283	4/3/2008	4/3/2022
CN=Indian Health Service-RPMS DIRECT Messaging CA; OU=directihs.net; O=Indian Health Service; C=US	C07E9037CB81012D3046613285C14B63A0284964A4F5A821FC3B18ECDEBA0A66	4/4/2014	4/4/2024
CN=GeoTrust TLS RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	C06E307F7CFC1D32FA72A4C033C87B90019AF216F0775D64978A2ECA6C8A230E	11/2/2017	11/2/2027
CN=DigiCert Secure Site Korea EV CA; OU=www.digicert.com; O=DigiCert Inc; C=US	C022D5CEAA275F2A6268FA79AC35653B3A730DEFA41F9CD8817D6D159BD33097	3/25/2019	3/25/2029



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Axesson Direct CA; OU=www.axesson.com; O=Axesson Inc.; C=US	BF4655F16AA338D7C7FF2BDC949A524BD4797B8B3C8341C608C9F65CB1CB8177	1/8/2014	1/8/2024
CN=GeoTrust EV ECC CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	BF3558F877E89D27DAA60DA9671676570DFBEB215D84AC5A37122D6776B78F6E	11/6/2017	11/6/2027
CN=DigiCert Baltimore CA-1 G2; OU=www.digicert.com; O=DigiCert Inc; C=US	BF1CB0E213D8D3C70BAE89429FC16DE2C74F755963D1B9B488BD0260DBC91B9C	10/14/2015	5/10/2025
CN=TERENA SSL CA 3; O=TERENA; C=NL	BEB8EFE9B1A73C841B375A90E5FFF8048848E3A2AF66F6C4DD7B938D6FE8C5D8	11/18/2014	11/18/2024
CN=DigiCert High Assurance Code Signing CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	BEAF46D0FF62645F56BE11830DDEFC663379619F337E85713491C83AE179481D	2/10/2011	2/10/2026
CN=TERENA SSL High Assurance CA 3; O=TERENA; C=NL	BE6A0D9E1D115F2293F6ABF11B3EC8E882E24426EEEB09AAA503597993E77A25	11/18/2014	11/18/2024
CN=E-Sign C2 Firma Electronica Avanzada Consumer Individual CA G2; OU=Symantec Trust Network; O=E-Sign S.A.; C=CL	BE4D872225F013B6E17595AA29F3C0B9F85C403E6C9B483550B069E4A2F47BFE	11/15/2012	11/14/2022
CN=SCF Arizona CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)10, Class 2 Managed PKI Individual Subscriber CA; O=SCF Arizona; C=US	BE3A962B7AF931D7ADFAF7452FE85270020EF853A5DD334AED80D29E892F0391	11/11/2010	11/10/2020
CN=Sydney Trains CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Sydney Trains; C=AU	BD80A335B5EBB7279960E0B5802257C256062895F33D3DCBC0B7CB7199DFA75F	11/24/2015	11/23/2025
CN=AlwaysOnSSL TLS ECC CA G1; OU=Domain Validated SSL; O=CertCenter AG; C=DE	BD193C475E4E67938BEF34122B98B558A2882E7ED94369A6CB011320EF15623C	11/2/2017	11/2/2027
CN=DigiCert Secure Site Pro EV ECC CN CA G3; O=DigiCert Inc; C=US	BC91379A21E7BDE11B455BF1D51186331682805A4A353A8EE258F7A03706C664	3/13/2020	3/13/2030
CN=Telenor Norge AS EDC CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	BC8EB15B0FEE05D953758E1D2C29A9E7D1E1B5AFD5659AB95E981F6F75BD1D71	9/3/2015	9/2/2025



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Blue Cross and Blue Shield of Florida CA G3; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Blue Cross and Blue Shield of Florida, Inc.; C=US	BBCA83E909A956AA38BA04EA5FC6A6A13F99495DA1E23981BE5BEDE03970450A	5/3/2016	5/2/2026
CN=Riverbed Certificate Issuer; O=Riverbed Technology, Inc.; C=US	BB39497035ED9583D286CDE70FB644EB95806598092B1E8D8F11BC035D7A476A	11/20/2018	11/20/2028
CN=AAMC Direct Intermediate CA; OU=AAMC Direct Messaging; O=Anne Arundel Medical Center; C=US	BB1C01E884DD0919AB94D5AF5575CD6FEB71E560B2B58735A78B150A10D54BF3	5/28/2015	5/28/2025
CN=Secure Site Pro CA; OU=www.digicert.com; O=DigiCert Inc; C=US	BA6A0C1170E1C7323860749B5E7B0ED365975D8FC90740B15D70F843A2394942	4/27/2018	4/27/2028
CN=DigiCert TLS ICA VRSN Universal; OU=www.digicert.com; O=DigiCert, Inc.; C=US	BA5B6E5DFEBDAE1C80BD72790BC85BCC6538AB4613023DA706CE826415F5E5B3	1/17/2019	1/16/2029
CN=DigiCert Global Client CA G3; OU=www.digicert.com; O=DigiCert Inc; C=US	BA361260FF1D46031686305E082DE836D4A320466E0DE9E013F00CDEDDDD62317	9/23/2019	9/23/2034
CN=Goldcorp Class 2 Certificate Authority; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Goldcorp Inc.; C=CA	B97867E658B05D78153D5349389C7E54695A45DDB2A4A015CAD8069C63FCF669	9/15/2011	12/31/2021
CN=TrustAsia DV SSL CA - G6; OU=Symantec Trust Network, Domain Validated SSL; O=TrustAsia Technologies, Inc.; C=CN	B90E17AB4B8778B10F9F28CBAA7664DE2EE3D66E1AFC574D168EDD24A10339FF	8/11/2016	8/10/2026
CN=DigiCert Assured ID CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	B8F44E4B1F8697DF54BB3D0F1E67596CE2FE9DABA85AF4E6F2A2E74396F8C56D	11/10/2006	11/10/2021
CN=Collaboration Certification Authority; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=HP Inc; C=US	B864FF6DE0CB1BEAF6AA5C68DB8769C91F18E1721E22AC3ECDD91C0889D77078	6/11/2015	6/10/2025
CN=idOnDemand CA G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Identive Group, Inc.; C=US	B812A3156BBB9F0AABF8F36BE72A95388936272070C4860DBDD4955F0D59B486	9/5/2013	9/4/2023
CN=NCC Group Secure Server CA G4; O=NCC Group; C=US	B7DFDC27E5FF9F35EFEC9F4BC532C35F727789B69C90A0489B40247299D97038	7/30/2014	7/30/2029



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=TERENA Code Signing CA 3; O=TERENA; C=NL	B7C6EBDC2A1B65EF1836DC00250C44E15703121052C1AB6B9D0385A058153AE3	11/18/2014	11/18/2024
CN=DigiCert Secure Site Pro EV CN CA G3; O=DigiCert Inc; C=US	B75AEE9836FEFBC446F288A2970B84FC60AAF9EFBD2CB9F82F7581790DE4B8DC	3/13/2020	3/13/2030
CN=Secure Site Extended Validation CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	B6EB4F8AD197073FE5203F8FCEBFD5C509CDE9CA3AA65EC59D203831424192D4	6/20/2019	6/20/2029
CN=CompuGroup Medical Certificate Authority; OU=IT; O=Compugroup Medical, Inc; C=US	B604026A3590392ABEFB6B18E8176453656115D2A0060F713E191A9FD076532A	12/8/2015	12/8/2025
CN=DigiCert Trust Service ECC CA G2; O=DigiCert Inc; C=US	B5FECC2F696C850323FC7A85C65B50A4C5E1BFBF823E266AB0A46F013B2C0EB2	6/12/2020	6/12/2030
/C=US/O=Imprivata/OU=www.imprivata.com/CN=Imprivata Secure ID CA-1	B49B1B7209D1A83F6CDBBA743AD720ACC24440FB9002F9DDB3C6F2F5CE337A47	10/25/2016	10/25/2026
/C=US/O=SAIC/OU=PKI/CN=SAIC Public Email CA 2018 01	B4739E90912D31F2829F69D60F62C5954DC98EEF9A7EF3477447692C4A440D65	2/9/2018	2/9/2028
CN=DigiCert Basic EV RSA CN CA G2; O=DigiCert Inc; C=US	B41A4864F0D4EC4EA632D01B3E7F232775E55E22B3BFD8642EE1292280D0E47A	3/4/2020	3/4/2030
CN=STRATO RSA CA; OU=Domain Validated SSL; O=STRATO AG; C=DE	B2BB26D271DC82BB647354B6F718D0ABF1B4D67411A0EDAFF1AA959BE5DED37E	11/2/2017	11/2/2027
CN=Secure Site CA; OU=www.digicert.com; O=DigiCert Inc; C=US	B26EB310F8FAF0EF5B0D0B71AA65EC050FA3ADE29134FB438AB6440288FA6E67	5/17/2018	5/17/2030
CN=Trust Provider B.V. TLS RSA EV CA G2; O=Trust Provider B.V.; C=NL	B23A29C312A7A80B0FE6B4E71B909CAE92AD649E88766E56C9EE8E1D7C013945	2/21/2020	2/21/2030
CN=Encryption Everywhere DV TLS CA - G2; OU=www.digicert.com; O=DigiCert Inc; C=US	B1AC8CFB181B9C9354E1775FCBDFCFE7898C5CC9A17D76315B57C112EEE55234	11/27/2017	11/27/2027
CN=DigiCert CN RSA EV CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	B131905CC7221270613B529AC9E786AA230ABFE154A0ACBE452BC350BD1EFE4B	6/20/2019	6/20/2029



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Secure Site Korea EV ECC CA; OU=www.digicert.com; O=DigiCert Inc; C=US	B0505BF2947F0807ABAE2D42C19343EAF08D1DDE3F8745B0589A57362792E470	3/25/2019	3/25/2029
CN=Cosapi Data Public CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Cosapi Data S.A.; C=PE	AFCD78EBA95C0801A2FEBAE6F695D469AF346215C5A3E554F161D23C4BB40F91	5/12/2016	5/11/2026
CN=Cloudflare Inc RSA CA-2; O=Cloudflare, Inc.; C=US	AEC863898F284D6CD4C6A3F6C3E6523480A359C33DAF66FAD3381849B8BB018B	1/27/2020	12/31/2024
CN=Thawte TLS ECC CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	AE82201F565E0439B7F4AD689327594EB974A4F781B1A6CBFED59BD382317F13	11/2/2017	11/2/2027
CN=ATT Services Inc Email Certificates CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=ATT Services Inc; C=US	AE7A31EB7007A6F64237387343C083D11950F1D6D546EDDAD8B5AA3DAC30B70C	3/3/2016	3/2/2026
CN=WFA Hotspot 2.0 Intermediate CA; O=Wi-Fi Alliance; C=US	AE0D0BA5AC3EEB823F5CA77331A99D7FDB2EC231D7CE47B7C208E3830E08A891	12/9/2013	12/9/2023
CN=Thawte CN RSA EV CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	ADA188F830C313F6046488EC341F1ED4AF793C6DC28C58600445DFBEB4163746	6/20/2019	6/20/2029
CN=DigiCert Secure Site Japan CA; OU=www.digicert.co.jp; O=DigiCert Japan G.K.; C=JP	AD14A68BEC949E84F6063419D63465D137C2ADD3E3A85E00E9E3EE82E5B4018F	11/20/2018	11/20/2028
CN=Florida HIE Exchange CA G2; OU=Florida HIE; O=Harris Corp; C=US	AB8EE98A4B2B97E5905ECE80A64304C143AB38D9508FF7286F68235E0DB68A27	11/11/2015	11/11/2020
CN=Symantec Japan Class 2 CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	AB62A0A1DE53BA06E771438E5D0526D3D8B0235330C65AA4BF80D855908E2DC4	4/15/2014	4/14/2024
CN=Trust Technologies Global Client CA; OU=Digital Identity and Security; O=Telecom Italia Trust Technologies S.r.l.; C=IT	AA6A2380A7E8254DAD4620AE0895DE74047F33F5268758DCF27C4D280B384A50	8/24/2017	5/10/2025
CN=WoSign OV SSL Pro CA; O=WoSign CA Limited; C=CN	AA61C2927DC89DB225CA9A17D600373D058F696D86D10E2BD7B5E8F44A97EED1	5/23/2017	5/23/2027
CN=Hostpoint RSA CA; OU=Domain Validated SSL; O=Hostpoint AG; C=CH	A8C0A92B0D90E8216CCCA34C1A1683B34EB4758D460C892CA8C512A8A2ACCC08F	11/2/2017	11/2/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=STRATO TLS RSA CA; OU=Domain Validated SSL; O=STRATO AG; C=DE	A8AD1C25CC580B2131FCC6FC6D6513746F38EA99BD162C81B5C5393495175B18	11/2/2017	11/2/2027
CN=GeoTrust TLS ECC CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	A838405EBB03F5DFD8D4A9572AE6E0E3F356EC4EC134375A59DB7B195DC3EC44	11/2/2017	11/2/2027
CN=DigiCert Secure Site Pro CN CA G3; O=DigiCert Inc; C=US	A66C97AE59DFF9EA015E73C744EE5520745F101A395C497D19E1F168D39AFCDO	3/13/2020	3/13/2030
CN=The Koble Group CA; OU=Orion Health Direct Secure Messaging; O=The Koble Group, LLC; C=US	A576C29481F5A2ACB1DF47500629A60F96F6ACA324E878FFDCFABD85E5649AEF	6/21/2016	6/21/2026
CN=DigiCert SHA2 Assured ID CA; OU=www.digicert.com; O=DigiCert Inc; C=US	A542BCA09C5E4579C619774AE59082BCE0F86D261C5A7A5A0F6217C10279EA7C	11/5/2013	11/5/2028
CN=Cal INDEX CA; OU=Orion Health Direct Secure Messaging; O=California Integrated Data Exchange, Inc.; C=US	A5226F33474B53392665298B48F4E6129824E98BD4D38DF4E31EBBCF14FA33CD	7/12/2016	7/12/2026
CN=DigiCert Secure Site EV ECC CN CA G3; O=DigiCert Inc; C=US	A4B2B47545559F5FFFB7CDDA7A1220E62FB74D1B7A9A4D4DACB2B2A839CE7456	3/13/2020	3/13/2030
CN=DigiCert Global Client CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	A449DBAB6D4C035FAAFD9D045891FE98ABD73D286268A8A83F854145551692E3	9/23/2019	9/23/2034
CN=Orion Health Direct Secure Messaging CA; OU=Orion Health Direct Secure Messaging; O=Orion Health Inc.; C=US	A4106DA85F7B34A6D3DE37884D1528916B84F046FFB7D4AAC521117B0C6995F3	10/21/2013	10/23/2023
CN=Feederssen Heuer Public CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Heuer und Partner - Rechtsanwälte mbB; C=DE	A402AA0AE53F484A07BF4E35B55D1274127650AD6145E243B719330B92B2A10A	1/5/2016	1/4/2026
CN=City of New York Office of the Actuary - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=City of New York; C=US	A3E2E9FDC693C7536CD3A9ABC8E09705C113DD391635C6239BBFF21DA258C96F	6/11/2015	6/10/2025
CN=Secure Site Pro ECC CA; OU=www.digicert.com; O=DigiCert Inc; C=US	A206644F57AFD10B94169498858981C16D633858CE0C88B57CF14FA2A92AACFD	4/27/2018	4/27/2028



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Aetna Inc. Secure EV CA; O=Aetna Inc; C=US	A1448A015E1399C5A891812F0E88C6D847B221D21F9326A6626BA43A0EB612D9	9/24/2020	12/9/2024
CN=RapidSSL ECC CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	A0D1523A0BF663550EB9081E9BDDEDA12814F9570B7697D95DF2EA53D4FF75E3	11/6/2017	11/6/2027
CN=BT Class 2 CA - G2; OU=VeriSign Trust Network; O=British Telecommunications plc; C=GB	A0BD4E39E6FE415F8B1ABA4773C3EA60905ED61F8EA27875CC03E9A94D441CB6	6/13/2008	6/12/2023
CN=PT Astra Daihatsu Motor CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=PT Astra Daihatsu Motor; C=ID	9FF4EC074FE370818B15ABA1BBDCB0A4DBE3F8420A993A7B5176BCC7FB4E4EAD	5/31/2016	5/30/2026
CN=DigiCert Assured ID Client CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	9E12D6E13DDD53A890A2B3A37423AE5E457731A7B34A153992F1EF1F5489A45E	9/23/2019	9/23/2034
CN=TrustAsia EV TLS Pro CA G3; O=TrustAsia Technologies, Inc.; C=CN	9DB0A20C305541E15E818A880D06579876A9C901B8EECD968482C58D9BA7F0A7	3/13/2020	3/13/2030
CN=VeriSign Japan Class 1 CA - G5; OU=Symantec Trust Network; O=VeriSign Japan K.K.; C=JP	9CEBC030750F1A1BAD06C998558AE209DFCCA68A80D38C161A85DC5AF68DD48	7/24/2012	7/23/2022
CN=DigiCert SHA2 Assured ID Code Signing CA - G3; OU=www.digicert.com; O=DigiCert Inc; C=US	9CDFD82596D1BAC9E44D3E491E2C07D8DCC920419915FD6F361CF70A1E433B10	7/18/2018	7/18/2028
CN=DigiCert Global CA-3 G2; OU=www.digicert.com; O=DigiCert, Inc.; C=US	9B2DD4FBEE941F6510F716C04969B36428892765461701EF47D41B3289475D50	11/12/2019	11/12/2029
CN=thawte Primary Issuing CA; OU=www.digicert.com; O=DigiCert, Inc; C=US	9A9FC39029ABE132D674D032D199CB8431AAC878DABCE6E9E1AECB81EC99F4CC	12/8/2017	12/8/2027
CN=Thawte RSA CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	9A5EECEE9C7D898BD81DC3BF066DAF6AEFB8DB1C59676206D2BFDD682312C6F6	11/6/2017	11/6/2027
CN=DigiCert Secure Site ECC CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	99935E20424535EC016F337B2BE68F1349DE66CCE4CA5AB367F8F3738215B833	2/15/2019	2/15/2029
CN=DigiCert Secure Site Pro ECC CN CA G3; O=DigiCert Inc; C=US	985140919342239C89086B22DFCAA4508590B11A3DE0A423E25EBC3DDAF8910D	3/13/2020	3/13/2030



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=INTEGRIS Direct Intermediate CA; OU=INTEGRIS DIRECT Messaging HISP; O=INTEGRIS; C=US	97D276C5FDF2DC94539ABB9E17BC3995730CD51739EAE95B0F67B39E99905F11	11/18/2014	11/18/2024
CN=DigiCert Basic ECC CN CA G2; O=DigiCert Inc; C=US	97C4B44316055F26A52A1F664CE385800A964A8552C99D2BCAFD618E6D8074A0	3/4/2020	3/4/2030
CN=NCC Group Secure Server CA G3; O=NCC Group; C=US	963056B0D941D9DBE27AC778053D85E43CC79F476AD34CFDD799C27E381840EB	7/30/2014	7/30/2029
CN=DigiCert EV RSA CA G2; O=DigiCert Inc; C=US	9588EF74199E45ACEFCCFC0C47010E9F2A37A1DD44C61A4E1C6B334DA5AF614	7/2/2020	7/2/2030
CN=Thawte RSA CN CA G2; O=DigiCert Inc; C=US	95141A355A5A2AA3E011221CAB9FE73810FDB5D88135864F03E4D852BD0BBEDB	3/13/2020	3/13/2030
CN=DigiCert Secure Server CA; O=DigiCert Inc; C=US	94D4ECE2ED9A5457B969A13B260489E9A5FE4790A041F27A3EB4126C84418EF9	3/8/2013	3/8/2023
/C=US/O=DigiCert, Inc./CN=DigiCert QV TLS ICA G1	93E33AF7DA3030530D090C9C55762CADE7EAE943F834349D1057A90EB67F306B	3/16/2020	3/14/2030
CN=DigiCert Assured ID CA G2; O=DigiCert Inc; C=US	93C381CB07B353A920C2A7BED6BEBF195C68279DD0527D37F20BDD0D99C330FA	8/1/2013	8/1/2028
CN=Thawte EV RSA CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	93569B26AA535E3E07C891C6BD2FA9DC0939C24DB4B3726AD8531EDB17C497CA	11/6/2017	11/6/2027
CN=Cybertrust Japan ECC EV CA; O=Cybertrust Japan Co., Ltd.; C=JP	92E3770B1EB44F84C2F2CB0097C2FD7126BD212B41C2610E78DDFD8946761738	8/24/2017	8/24/2032
CN=Symantec Web PKI ECC Root - G1; OU=Symantec Trust Network; O=Symantec Corporation; C=US	92BB72F15EB75DE467C84B438181034BDAE9A016EC26434BEE3C9BBAD8CD8AF0	9/21/2017	9/20/2042
CN=Fuji Xerox Businessforce CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Fuji Xerox Businessforce Pty. Limited; C=AU	92587CDC27A5C019B413AA94D21944AC8562E8DAA8C78AEA17C623D1B77714DE	6/4/2015	6/3/2025
CN=DigiCert Federated ID L2 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	91FDEB52D4265120B843B195D1B6CDB5CE61251865A45A3E920E610FDDA660D3	1/7/2014	1/7/2023



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Thawte Class 3 RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	8FC1C1763F6317AB09061C5A78D4E9D67001EFE0A79FE40573B048C06EB21658	11/2/2017	11/2/2027
CN=DigiCert High Assurance EV CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	8FC1469B8005BFEBDBF67F514E795FE1F17EA239A2A6934857F2428ADCE6D24F	11/10/2007	11/10/2021
CN=DigiCert Global CA G2; O=DigiCert Inc; C=US	8FAC576439C9FD3EF153B51F9EDD0D381B5DF7B87559CEBECA04297DD44A639B	8/1/2013	8/1/2028
CN=SRI International CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=SRI International; C=US	8F11E6AE162CD9472CAB0B6C023A56D8A442BD5981DD0CDBBCD5D501923223B7	11/15/2012	11/14/2022
CN=Telenor Norge AS NF CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	8DE6CA4D03ADF19A56B3CDD6DCA843C51189D0A2BB60D84B9AD01EBC741F5F22	6/19/2012	6/18/2022
CN=TrustAsia ECC EV TLS Pro CA G3; O=TrustAsia Technologies, Inc.; C=CN	8D83D69FA615AA2683B13D7894482C542B0BCF18BB92D30F015FB42471AFBB66	3/13/2020	3/13/2030
CN=GeoTrust Code Signing CA - G2; OU=www.digicert.com; O=DigiCert Inc; C=US	8D7C499D7FE9EEEC05D9EB42F03EFE402807919803E8E6CD6C1F2BF5EF6A7D8F	7/18/2018	7/18/2028
CN=AlwaysOnSSL ECC CA G1; OU=Domain Validated SSL; O=CertCenter AG; C=DE	8D7373F38E63D830C0CEAA2C33330F21A2C77408EE3CFBC595C0D2F3D32F4224	11/2/2017	11/2/2027
CN=IPsec CA; OU=VeriSign Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Oracle Corporation; C=US	8CDCB62473FE6AEA3FA7CE065BFB092D45233563C33AB16CD9985B7A0A14A07E	2/8/2011	2/7/2021
CN=CrowdStrike Global EV CA; O=CrowdStrike, Inc.; C=US	8CD728F9C3391BA4360A10C66CA484C807651D6207F10633669ED8881FE91BF5	2/21/2020	11/9/2031
CN=GeoTrust RSA CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	8CC34E11C167045824ADE61C4907A6440EDB2C4398E99C112A859D661F8E2BC7	11/6/2017	11/6/2027
CN=GeoTrust TLS DV RSA Mixed SHA256 2020 CA-1; O=DigiCert Inc; C=US	8C43C5E340EC640F93EA774AC5353CCA9042F764FF837F870D8B64763C458A41	7/16/2020	5/31/2023
CN=Symantec Class 2 Individual Signing RSA CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	8B9218D93DB5377CFE7D5923E7016D379D446F0019C47B9B4EA737AEDF86A558	1/22/2015	1/20/2030



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=University of Houston Intermediate CA; OU=Symantec Trust Network; O=University of Houston; C=US	8AD8E95B7B83F0BC772BEBC75FFE0C51F65C77B63B0821ADC13CDC5AC9C27267	2/7/2012	2/6/2022
CN=A.P. Moller - Maersk Certification Authority; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=A.P. Moller - Maersk A/S; C=DK	8AA77BB7ADA3B50AFF1DDD9012C5D73B0D9F8722BEDFCEE0B1DC0ACCB0DD1E0E	5/3/2011	5/2/2021
CN=ARINC Public CA - G2; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)10, Class 2 Managed PKI Individual Subscriber CA; O=ARINC Incorporated; C=US	8A8D4CA774F54964578B371ABD8B055937E8B7A0CDB659A3150EB6488930E661	12/2/2010	12/1/2020
CN=DigiCert EV Code Signing CA (SHA2) G1; OU=www.digicert.com; O=DigiCert Inc; C=US	8A78B966C73D769040C1A81C32168CEF8B9B9E96ECC2D33CC4ABB5A0CF8C1C67	4/27/2018	4/27/2028
CN=GeoTrust RSA CN CA G3; O=DigiCert Inc; C=US	8A023C08E4A1AACC925B34C5C7965A8D0527565AEA130ABB915E508CD33AFB45	6/9/2020	6/9/2030
CN=Optioncare CA; OU=Orion Health Direct Secure Messaging; O=Optioncare; C=US	89CFBC8FBFF7FE026B6CF2EA688419BDE8BBC1FB451329C865D6C6CBCF6BD097	3/1/2016	3/1/2026
CN=GeoTrust EV RSA CN CA G2; O=DigiCert Inc; C=US	8937E90E1495C9A78EFB18182D43FDC73FCD292AB6347A12B9077DE878530E62	3/4/2020	3/4/2030
CN=WoSign EV SSL Pro CA; O=WoSign CA Limited; C=CN	891EE2E23282E5076C9AE9047DE8EA900E066F81D6DCD9B843C59078B0F105BC	5/23/2017	5/23/2027
CN=Telenor Norge AS Test EDC CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	889957D00561EF99867402A901359C772029AD43CCBE46B82BF2E7193D385411	6/19/2012	6/18/2022
CN=MSC Trustgate.com Class 2 CA-G3; OU=Symantec Trust Network; O=MSC Trustgate.com Sdn. Bhd.; C=MY	885BCCECD14002A069F57E861F6919C175E791C2CA605B494DD7960684B3A093	4/4/2017	4/3/2027
CN=Honeywell International Co-branded QA CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Honeywell International Inc.; C=US	87C0BAE275BF11F25AE3290B3E810D97E8297F276C576CDAA9AEB5FAEFC4CD22	2/14/2013	2/13/2023



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Cybertrust Japan Issuing CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	87942388D29A46C06FE1E56AAB791594D0FB2E8EABF124048F130EEA9BEDD3FD	9/1/2016	9/1/2026
CN=TrustAsia TLS ECC CA G9; OU=Domain Validated SSL; O=TrustAsia Technologies, Inc.; C=CN	877F24CE70F4A3047E4EA70BEC1BC31BE9B6533ADFF3A393FF9BFB3C81029446	11/2/2017	11/2/2027
CN=Oregon Health Authority Direct CA; O=Oregon Health Authority; C=US	86FFEA40F36FA6913278710FEABA9B206F3288DA3FD1C652BC5B5895A2B1A877	3/5/2014	3/5/2024
CN=DigiCert Federated ID L3 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	85760F77DB0FD0D93C21EE0364B8EAB09B82CF49B7849831038209B5B1081363	1/7/2014	1/7/2023
CN=DigiCert SHA1 Assured ID Code Signing CA - G1; OU=www.digicert.com; O=DigiCert Inc; C=US	82AD46ECDE882413106B1C83EF65DC02DB0C65B3870F6F744B62283DF6FA1D56	7/18/2018	7/18/2028
CN=Allina Health Connect HIE Intermediate CA; OU=Information Services; O=Allina Health System; C=US	826C6AA610EF190BE2D7C03E22D032405B289804E3319E233C4C37FFBF305F1A	12/8/2015	12/8/2025
CN=DigiCert Class 3 RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	81E071B01F01DC43EE458C0E1BDCBC848B47462C26B4CE19EE9015416BC6DF89	11/2/2017	11/2/2027
CN=DigiCert Extended Validation Intermediate CA (SHA2); OU=www.digicert.com; O=DigiCert Inc; C=US	802C2AD1D215E57CDC9010EA437ACE399B657194FBD40E3BB5E00B080E6496DF	12/7/2011	12/7/2026
CN=Cybertrust Global Root; O=Cybertrust, Inc	802447EE521CC666CDB7BBAE93A385E55F200D76A3D1356A85445AC4CBDBED12	1/8/2014	12/15/2030
CN=RWE Dea AG CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=RWE Dea AG; C=DE	7FC6CAB96C16C850F457DCBBFB893539EA2664395F2409693789F41BFD64714E	12/11/2014	12/10/2024
CN=DigiCert PKI Platform Class 3 Shared SMIME Organization CA; O=DigiCert, Inc.; C=US	7F755DC2B9EE99EB02D71CB1805059AAABB5EB3E8558DCA8C09A1D0DE258D767	5/29/2019	5/29/2029
CN=GeoTrust ECC CN CA G2; O=DigiCert Inc; C=US	7CAEEC680E6497FC5109073F83816E798F27F8968A2663C1C95711B548192E35	3/4/2020	3/4/2030
CN=Honeywell International Co-branded CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Honeywell International Inc.; C=US	7C932E8709835BEC74AAB6F02E958DF70995B3FED5FE4C375D66B1228555D8ED	12/5/2012	12/4/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Yaana; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Yaana Technologies, LLC; C=US	7C73C0E9D52BC63E713110DA4705C7CECCB4D49F1F5FED0B6D1A707E63A4E31C	1/6/2015	1/5/2025
CN=DigiCert Extended Validation CA G3; OU=www.digicert.com; O=DigiCert Inc; C=US	7C0912E5DE8478BB86E8EA46BA5AE65DC3870BCCEFCBC2F46795EEECF648CFBE7	11/11/2015	11/11/2030
CN=TrustAsia TLS RSA CA; OU=Domain Validated SSL; O=TrustAsia Technologies, Inc.; C=CN	79F1F5AB697DEBF195F5B7DA65F95399682EDAEB80115B9D42A6AE5E2FA98802	12/8/2017	12/8/2027
CN=TERENA Code Signing CA 3 G3; O=TERENA; C=NL	794C63DB244BA73FB286F15DAB8D0CA5425508381E98844954E63823BB5D7F74	12/9/2014	12/9/2024
CN=GeoTrust Code Signing CA; OU=www.digicert.com; O=DigiCert Inc; C=US	78A95ED82180A1C33A9F34EDB75E6774FD4BB73AA2C7C4121453DDB627DB1BAF	7/18/2018	7/18/2028
CN=Thawte CN RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	7867AAE905EB8D55635FFEBBBF8CF05A63B9B390665DE2367AC1073E92913728	6/20/2019	6/20/2029
CN=DigiCert Assured ID TLS CA G2; O=DigiCert Inc; C=US	77CD51784A693D9482E7EA694E4053BCFD9DF65580FBCE14B2A7527C081803E1	3/25/2020	3/25/2030
CN=Oklahoma State Department of Health CA; OU=Orion Health Direct Secure Messaging; O=Oklahoma State Department of Health; C=US	77ABE65DF4BE94E5EC222FC905E1233F8C77D6B3AE2933346A0C2FC3B2F1F560	2/16/2015	2/16/2025
CN=RelayHealth Direct CA; O=RelayHealth; C=US	77537682E9A0B2C5BD5E62BC1CB35ECEB38FCBEBF7D2DC326F7E420F0DDBEDB3	4/4/2014	4/4/2024
CN=Telenor Norge AS Dealer CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	76790AE708EFBB366BA192A68D50810AE53E82A497CFF3911F888A21E04FE2D7	4/5/2012	4/4/2022
CN=QTC Management Inc CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=QTC Management Inc; C=US	765A29596F5F74EEA3BDAC0670E7DF42BFD708765AD4F892FEEF714C214E7AE	4/26/2016	4/25/2021
CN=DigiCert Trust Service CA; O=DigiCert Inc; C=US	75AC8E41D9A7CC758D3998FE030F638CFD28855823DA4E9B56954CFBDE054EB6	3/4/2020	3/4/2030



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=NBN Co Limited Public Issuing CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=NBN Co Limited; C=AU	758F496C9928A3C67E0D50D03D2E2CAFF733D427E57AB5FEE7D5AC4153C4071	2/10/2015	2/9/2025
CN=TrustAsia ECC OV TLS Pro CA G3; O=TrustAsia Technologies, Inc.; C=CN	756AAB900E3F5C762734B6461FC32A9DD341EA1D4A04283409233C39787A867E	3/13/2020	3/13/2030
CN=E-Sign SC Class 2 Consumer Individual Subscriber CA - G2; OU=Symantec Trust Network; O=E-Sign S.A.; C=CL	72F0E3B1B8CD1A86BDF7D022DA4131C302293CAE820B28A597BC84D041B8971D	11/15/2012	11/14/2022
CN=DigiCert High Assurance Trust Service EV CA; O=DigiCert Inc; C=US	72D0F7CBF4529B80C34A7CBB438BD1D0E1FC26E80E59CBD4FD7314FCDDF0E994	3/4/2020	3/4/2030
CN=RVBD Certificate Issuer; O=Riverbed Technology, Inc.; C=US	72563CC98ADA2C5D2126542ACC908154AEB1F9D6F7E83A55C09744C7D7ADDDDBA	11/20/2018	11/20/2028
CN=DigiCert EV Server CA G4; OU=www.digicert.com; O=DigiCert Inc; C=US	710024B37BD9F0E1537C18A4C20F9A31C4B485D1248C643F20B4C00F3716BA85	1/17/2017	1/17/2032
CN=AO USC ROOT CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Administrative Office of the U.S. Courts; C=US	70FC4F59FA70CBB6A24B2B6444E0D09733B1C4A9F28A6B206C110579055E1FD2	3/5/2011	3/4/2021
CN=Secure Site Pro Extended Validation ECC CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	70DC86F9F7750B74B1DEC8CD352EC25837C36E640F7148E08464EF5901E5A589	6/20/2019	6/20/2029
CN=CDC Secure Data Network CA G2; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)10, Class 2 Managed PKI Individual Subscriber CA; O=CDC; C=US	70A0FE0EDCB4898E5BB09DF8FC6B8978E02A287EDB10175870E81E1491340C5C	11/30/2010	11/29/2020
CN=Brown Brothers Harriman & Co. CA - G2; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Brown Brothers Harriman & Co.; C=US	7082427CD46834AEF6655ABADD898DE01F9E1A988E753401EF81A0A37410AB78	2/8/2011	2/7/2021



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=AlwaysOnSSL RSA CA G1; OU=Domain Validated SSL; O=CertCenter AG; C=DE	706ECB21B096F6FFCCDC9EBE5AA1B776F64DB8FAE7F0A5C032C71041E502B98F	11/2/2017	11/2/2027
CN=TrustAsia ECC OV TLS Pro CA G2; O=TrustAsia Technologies, Inc.; C=CN	70357B9E56D3FB3C6C009C38C7181454C462908DFBCE6D54D60DFE1E506E14FD	6/20/2019	6/20/2029
CN=Thrift Savings Plan CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Federal Retirement Thrift Investment Board; C=US	6FE969B0E32956CDA827A4084F9330C9559BB910291B9A4107C3C470774411D1	6/11/2013	6/10/2023
CN=North Dakota Information Technology Department CA; OU=Orion Health Direct Secure Messaging; O=North Dakota Information Technology Department; C=US	6ECF658CCEA8B29BE60C85904F4ADD7CCB7950CF58C97BBF60D57CEA49A2703D	1/10/2014	1/10/2024
CN=DigiCert Trusted Server CA G4; O=DigiCert Inc; C=US	6E8D952FDBABAD8DE3D61E094393739B5A47371A52BDCB2A3C2F8C43622F640F	8/1/2013	8/1/2028
CN=Thawte ECC CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	6E62CBE3E42A41C50405B3E2F1A44257683267856184AF9C02112070AC836936	11/6/2017	11/6/2027
CN=RapidSSL Class 3 ECC CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	6D63EAA731823D80E47624BE60BAFAB79D9E4030D43E3D02E185BD5B77E4665B	11/2/2017	11/2/2027
CN=Abbott Laboratories Secure Server CA; O=Abbott Laboratories Inc.; C=US	6C69E201656440EB98CD0875764A1ED19015ED8C4427601ACA9C68AFA8973959	7/12/2016	7/12/2026
CN=Agilent Public CA G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Agilent Technologies, Inc.; C=US	6BE4732E5C0FBB61A4F8B2EED0A1C47AB7FCFA559FD5EF3D5250D20E74503A83	4/23/2013	4/22/2023
CN=GE SMIME Issuing CA 2.1; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=General Electric Company; C=US	6BE39EC9E02D54008A7A716DD35A3D2F0A1FD8F8F34DAE235446150C6F48BC7E	7/16/2015	7/15/2025
CN=SecurityMetrics DigiCert EV CA; OU=www.securitymetrics.com; O=SecurityMetrics; C=US	6B2328E7FFF598B2ADF90B7F3EA42B45FA606D78E2B117B7D60E99E828CF7565	10/30/2012	10/30/2022
CN=DigiCert Secure Site CN CA G3; O=DigiCert Inc; C=US	6AF5C4EAC180289B94A77A5D231E3865FFE934F3E6A24BF487EB4E2BFD809A4B	3/13/2020	3/13/2030



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=DigiCert, Inc./CN=DigiCert QV EV TLS ICA G1	6A7B2AA3414039A663D5D8BBAB8256A3979A84C332BF5E1EE8F6D0E0ADA84668	3/16/2020	3/14/2030
CN=GREEN SHIELD CANADA CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)10, Class 2 Managed PKI Individual Subscriber CA; O=GREEN SHIELD CANADA; C=CA	6A7146319034A1F380E6B32A8FAC0069EB1D332477F4EAD33762F8A614A552F2	12/2/2010	12/1/2020
CN=University of Houston CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=University of Houston; C=US	69FF03E05230DFD61E4D6F6DD6662808C65A85CBE8FEA5E43FBF387128E8B4F4	6/18/2015	6/17/2025
CN=MSC Trustgate.com Class 2 CA - G2; OU=Symantec Trust Network; O=MSC Trustgate.com Sdn.; C=MY	69D455F481C2BB240476BDFC04F25D17AF7FADE203EEC6B31910A9AA4D0A86D7	9/29/2011	9/28/2021
CN=Thawte EV RSA CN CA G2; O=DigiCert Inc; C=US	69919D820EDF582ADBCF8E092A9284D901772EE2B419EA9DE1F5872C791FC6FA	3/13/2020	3/13/2030
CN=Symantec Class 2 Shared Intermediate Certificate Authority - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Symantec Corporation; C=US	68E63395029061641385B8AFF77F6D66F2D1FD87A821630D27EC3645C9FE235D	4/23/2015	4/22/2025
CN=TrustAsia TLS ECC CA; OU=Domain Validated SSL; O=TrustAsia Technologies, Inc.; C=CN	68D0B2E8C85BF009B4DB39AC8B5E2FA8E1FD9FD1E5028704EA9288C7E472AAEB	12/8/2017	12/8/2027
CN=GeoTrust SupremeSSL 1 ECC CA; OU=www.supremessl.com; O=SupremeSSL; C=NL	6861BBB4CBEDA2AA01066BF476BF8F2FE6EA9F008CB0AC8E1755E2A328FA5933	5/7/2019	5/7/2029
CN=BHP Billiton Group Operations Pty Ltd Secure Email CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=BHP Billiton Group Operations Pty Ltd; C=AU	67C0A4826293FCFC61E57FB496443C84F035496E2120FC80C551AD3C3775E368	8/18/2011	8/17/2021
CN=DigiCert Federated ID US L4 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	6797436214EFEE67CDE7D70358D4D8B00DFBF78D5C87C62B4A7E790D73DD7BD9	4/18/2013	4/18/2023
CN=Symantec Class 2 Signing RSA Intermediate CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	66F7B0147C09F9DA79E63800A96F649DA7E59757F876F08126D07E8FB8542488	1/22/2015	1/21/2030



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Symantec Enterprise Mobile CA for Microsoft - G2; OU=Windows Phone Enterprise Applications; O=Symantec Corporation; C=US	65E5B094657AA1D7161BA5710F024FE8DDF21ADB6270A20BAE0814183AA85370	5/24/2017	3/13/2032
CN=DigiCert Secure Site Korea CA; OU=www.digicert.com; O=DigiCert Inc; C=US	6555D661D37F2494A23C2D5F83479E78051B6DE76A147B506D6BEA2882B4D066	11/20/2018	11/20/2028
CN=GeoTrust Class 3 ECC CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	64E6E095926F52475116C164D6A85E9B21322A2B4867DF7E72A1C632F8C74143	11/2/2017	11/2/2027
CN=DigiCert Trust Service CA G1; O=DigiCert Inc; C=US	64616B62820D458F7C71E3449ECCF3F3E4735B76879860C1C660DF23438607EA	6/9/2020	6/9/2030
CN=Cerner Corporation Resonance Intermediate CA; OU=Cerner Resonance; O=Cerner Corporation; C=US	64284AA5F8DC8697D43D9737CF4E266625414E449C019667714537FF7EDE31B7	11/11/2015	11/11/2021
CN=Voya Public Issuing CA1; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Voya Financial; C=US	63B7404D57FE17FD7E32DAC98D934EC98AB69F64D0338987193657A64364BE60	3/4/2016	3/3/2026
CN=Thawte Partner CA; OU=www.digicert.com; O=DigiCert Inc; C=US	635AF6889F49060FE0E7BABC0F23314FB118F3B18243DD17F47D8647A69684B1	11/20/2018	11/20/2028
CN=DigiCert Assured ID CA G3; O=DigiCert Inc; C=US	634FDF26C994E76A2918D9EFC4CAB9C6FCB344EF642A79C89192BCDA0ED52F4C	8/1/2013	8/1/2028
CN=DigiCert Universal Issuing CA; OU=www.digicert.com; O=DigiCert, Inc; C=US	622A42A28CAD83D962771D9D09BD307877D4AB513B4FE0CF2E5851E79FFA6FE	12/8/2017	12/8/2027
CN=CloudFlare Inc ECC CA-2; O=CloudFlare, Inc.; C=US	6172D7A1996CBEF71A0182DD44B99E9C035742A9EBD0311AA73AA4733344C5A6	10/14/2015	10/9/2020
CN=NCC Group Secure Server CA G2; O=NCC Group; C=US	6075DA5CECD15D6584C5560322D5C09FC2199E52DEA7921D91040AA75248672E	7/30/2014	7/30/2029
CN=RapidSSL TLS DV RSA Mixed SHA256 2021 CA-1; O=DigiCert Inc; C=US	6060EAB180122EB14F22EDE465B4A9A70E29E70FB182EBF01D5B1333F2E73242	1/1/2021	9/30/2022
CN=Sutter Health CA; OU=Orion Health Direct Secure Messaging; O=Sutter Health, a California nonprofit public benefit corporation; C=US	603D69822381A0BFC274BBED67009BC7DF133CB902FA242CF58BF727D23D5495	10/21/2014	10/21/2024



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Asciano CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=ASCIANO EXECUTIVE SERVICES PTY LTD; C=AU	5FC7C6E19AF873E0941D7C6AB344D3E6E4F73DD67693FADFA2DA9C6438AC1A1A	11/3/2015	11/2/2025
CN=DigiCert Cloud Services CA-1; O=DigiCert Inc; C=US	5F88694615E4C61686E106B84C3338C6720C535F60D36F61282ED15E1977DD44	9/25/2020	9/24/2030
CN=DigiCert Governmental Direct CA; OU=www.digicert.com; O=DigiCert Inc; C=US	5F665CBACC1E37171EA83EA85C570F9861CAF77BAC8886ABC4BB19B3698C094A	9/25/2015	9/25/2025
CN=AGC Public CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Computer Sciences Corporation; C=US	5E71C746D45EBCFD6D2DCE4A2DABCCD9335E3AD8D63B349989341911ECD70E88	11/11/2014	11/10/2024
CN=Aetna Inc. Secure CA2; O=Aetna Inc; C=US	5D28761CBF304EAFCD127B34D614FE179AC7744F1552AF1C31298425AD05A275	12/9/2014	12/9/2024
CN=GE Enterprise SMIME CA 2.1; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=General Electric Company; C=US	5C854634778E6DDC076ABAA36E5B8F4F45140578BD3A45AF09B7F23C34F032AD	6/16/2015	6/15/2025
CN=SRI International CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=SRI International; C=US	5B6A31D14ED98E8CF23A115BC45E87B8ECD82A937A29DBE0EFBA3C8133494B74	11/15/2012	11/14/2022
CN=Inpriva Direct Federated CA; O=Inpriva Inc; C=US	5AE4F777426BBC5AA85986CA48D319270C5536210DC8EA1A28D502F6B3595138	11/18/2011	11/18/2021
CN=Telenor Norge AS Test NF CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	597D5A286729E73A324E5665CEE4B97FDD5A9FD14EBA4B903319A16CFC946680	9/3/2015	9/2/2025
CN=Thawte ECC CN CA G2; O=DigiCert Inc; C=US	58E89F4F70410DA00B41473CFA413FA0737ED2729F3ED77BE29A7F4705377147	3/13/2020	3/13/2030
CN=DigiCert High Assurance CA-3; OU=www.digicert.com; O=DigiCert Inc; C=US	57D8D5B832616B7823466A0C372770D16A5DC246581F0F58373E51C7E1E5316	4/3/2007	4/3/2022
CN=DigiCert PKI Platform C2 Shared SMIME Individual Subscriber CA; O=DigiCert, Inc.; C=US	55F3A359F0A26D72FF244C2EE396FD51BC2400EA250C91EFC355E2F8103C9939	6/4/2019	6/4/2029



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Autoridad Certificante Bolsa de Cereales - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Bolsa de Cereales; C=AR	54E37620BF05CEAFBB2286EB251F69434C84677B8122299AF2E07750341268E2	8/18/2015	7/25/2022
CN=DigiCert Federated Healthcare CA; OU=www.digicert.com; O=DigiCert Inc; C=US	54C3F501042CDCC09AE8143CB192BD5E5724C9C88A6AB395A94A1A7AFC26CE7C	2/11/2014	2/11/2024
CN=Data Management Intermediate Certificate Authority; OU=Fresenius Kabi USA; O=Fresenius Kabi AG; C=US	54837EF7B5AC4AA23606A15EF30DE46E9BB7E23E60F6ED4F2612092B94EDC68F	8/25/2015	8/25/2025
CN=DigiCert High Assurance EV CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	541AF019961760EF19E8FB4134E6D43085B5E5E087F30197DC42B2097E10487E	11/9/2007	11/10/2021
CN=GeoTrust ECC CN CA G3; O=DigiCert Inc; C=US	52DDE89FDD6F610473F9314C7A8B1AC442F8AA833AA5D773006FDA758C9FF1EC	6/9/2020	6/9/2030
CN=E-Sign C2 Firma Electronica Avanzada Consumer Individual CA G2; OU=Symantec Trust Network; O=E-Sign S.A.; C=CL	52A5E31287A0F89159F7BB4BD3A6A270DEE583A77261F6D00DD92D8C9424E800	11/15/2012	11/14/2022
CN=Symantec Class 2 Shared Intermediate Certificate Authority; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Symantec Corporation; C=US	5265BCA0D31C47DB16C359C5DA88B4C310FA0D4AB1A86FF7E2D5BFA1546C5559	6/7/2011	6/6/2021
CN=DigiCert SHA-2 RADIUS CA; OU=www.digicert.com; O=DigiCert Inc; C=US	524CF7331C4EE353EEB1ECD74E1F801A0F1F08DFA0322092F42205AFC3A17675	9/20/2016	9/20/2026
CN=MedicaSoft Direct Intermediate CA; OU=MedicaSoft Direct Messaging; O=MedicaSoft LLC; C=US	51A6E2ED41040AAE8E089FBABFE26A38D656F5B0855635352FEE9598286BB021	4/28/2015	4/28/2025
CN=Plex Devices High Assurance CA2; O=Plex, Inc.; C=US	50D3D71FC0CD7E36ADAE32221FEFBE8CC29B2676BA326C09B8FA1B24DBE75514	5/19/2015	5/19/2025
CN=BT Class 2 CA - G3; OU=Symantec Trust Network; O=British Telecommunications plc; C=GB	4FD95AFC505C1CCB5ADA4BA00B049456FC8F7BFB73AD0C1A9B61F2F8E8EE4279	12/16/2014	12/15/2024
CN=Telenor Norge AS EDC CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	4F5C36419568CB1E7084FB82DACDD1015ADB1D57B5C3E3F17F77CA092977432	6/19/2012	6/18/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Trusted G4 TLS RSA SHA384 2020 CA1; O=DigiCert Inc; C=US	4F35C6B9C100905FF25BB01C0A20EBE335BCEEF249CE9FFA1E11E062ED66FCD1	9/24/2020	9/23/2030
CN=Symantec Class 2 Individual Signing RSA CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	4E74475D2C33E1DD4732306B79712B5EE6997C2DBDF596CC8BD1362163DAA4F4	1/22/2015	1/20/2035
CN=DigiCert High Assurance CA-3b; O=DigiCert Inc; C=US	4E30F8004C18D3D798EC5A7734346B5A5EBE8D54423CE98257FC57735A6F738D	5/28/2020	11/9/2031
CN=Sonavation IoT CA; OU=sonavation.com; O=Sonavation, Inc.; C=US	4C56CA7A3C10EB58765E0FFCF8035C57C9F3BDB014862F676756CF789193F10E	5/19/2015	5/19/2025
CN=DigiCert High Assurance EV CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	4C4943B9EAA14EA2A69B8A7E4D8DA89081EEA11C87E8229B9B74F68A7AD33B79	11/10/2006	11/10/2021
CN=Safmarine Certification Authority; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Safmarine; C=BE	4C3F6F5576A934FC5976583CC4C3039B00A8F91011B6104DF1D7EE48C282F94B	9/22/2011	9/21/2021
CN=iShare Medical Direct Intermediate CA; O=iShare Medical; C=US	4C0A5888C34AA01B745F4EBA268696B2CCB3F4AA31C8EDCB3AFE8FA84CB74CC1	1/14/2015	1/14/2025
CN=Thawte TLS RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	4BCC5E234FE81EDE4EAF883AA19C31335B0B26E85E066B9945E4CB6153EB20C2	11/2/2017	11/2/2027
CN=Symantec Class 3 ECC 256 bit EV CA - G3; OU=Symantec Trust Network; O=Symantec Corporation; C=US	4B2CBA18EFBCE6C3C4A80AAABC952337000CD9346B768D062412A2DED846EDC9	1/7/2016	1/6/2026
CN=TrustAsia EV TLS Pro CA; O=TrustAsia Technologies, Inc.; C=CN	4AFFE4FEF39464D1788C660AF591D5E601B261C4811DF0A3DD9D61CAFE8E5ED8	4/27/2018	4/27/2028
CN=DigiCert SHA2 Assured ID Code Signing; OU=www.digicert.com; O=DigiCert Inc; C=US	4ADB819C250A2E183313405499D8735299C88F970A5019A27566B27E5818F41B	4/27/2018	4/27/2028
CN=ULA CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=United Launch Alliance; C=US	4A84F84E880F3D96C3BFBA2AED67B0EE300FBEE0A4A90D736EF738A089FD6B17	4/25/2017	4/24/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Enterprise Premium Public CA; O=Mitsubishi Electric Information Network Corporation; C=JP	4A45559AD89684BB439FCD2CC4C5EC0F92EE0692CD6B9763957DE31A2F467CCA	4/29/2020	4/29/2030
CN=TrustAsia RSA CA G8; OU=Domain Validated SSL; O=TrustAsia Technologies, Inc.; C=CN	48C4A1C5395E2B499D2E3EBE26EEFA91D11CF35DD5FA14937EEE5E807A2FF487	11/2/2017	11/2/2027
CN=Plex Devices High Assurance CA; O=Plex, Inc.; C=US	48A7C9C5A36734FC9E204D63CE6BBBCD9E21C1978604760CD8D30D6F4C67B67C	1/14/2015	1/14/2025
CN=DigiCert High Assurance Intermediate CA (SHA2); OU=www.digicert.com; O=DigiCert Inc; C=US	47511629F2BC3B7CF84EFEC9F32798A43AF6252E550B6CAE76A38558712E37D8	12/7/2011	12/7/2026
CN=Oracle RSA CA G1; OU=Organization Validated SSL; O=Oracle Corporation; C=US	461FB462E51D54A59A041CD5A651760AE847AE1C27C103887D52EC095F68E73C	11/2/2017	11/2/2027
CN=TrustAsia ECC CA G9; OU=Domain Validated SSL; O=TrustAsia Technologies, Inc.; C=CN	45B2A3A4D06EE652E940FABCA5CD8721C1FB7FEED8B75B0CC7F067E1D26E2CFE	11/2/2017	11/2/2027
CN=DigiCert ECC Secure Server CA; O=DigiCert Inc; C=US	458446BA75D932E914F23C2B57B7D192EDDBC2181D958E1181AD5251747A1EE8	3/8/2013	3/8/2023
CN=SCHIEX Direct CA; OU=SCHIEX Direct Messaging; O=SCHIEX; C=US	443C8158264710C0B768A8170E59BF1FAE4079D2BC39939A79FA839174ED81AE	6/7/2016	6/7/2026
CN=RapidSSL TLS RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	4422E963EE53CD58CC9F85CD40BF5FFEC0095FDF1A154535661C1C06BCADC69B	11/2/2017	11/2/2027
CN=Bloomberg TLS CA; O=Bloomberg LP; C=US	440B37416F2DE852CA386150D611EC0AF31DD58D8A27F882815A7EA3EE6848EE	9/24/2020	9/23/2030
CN=Google CA1; O=Google, Inc.; C=US	438F473EBFC8884EF5D3E0D52D264CDBE56CA382D9EBFC689D77489409F55A6E	8/25/2015	8/25/2025
CN=National University of Singapore CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=National University of Singapore; C=SG	438BA9C85C9A8C5506ACD1146ADA068B777A32FA2C78A6D4AB57241174881AB2	9/18/2014	9/17/2024
CN=Alaska eHealth Network CA; OU=Orion Health Direct Secure Messaging; O=Alaska eHealth Network, Inc.; C=US	437859303D0183862A96F6ABF8B03F2A69D4CBD317217666015E1ABA3C84AA11	10/22/2013	10/22/2023



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=RapidSSL Class 3 RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	433A09FFDDB2EED82EEA9F918C860C04CBEAB1381A48DFE2C48E42E13D35AF81	11/2/2017	11/2/2027
CN=Telenor Norge AS Test Dealer CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	4325F2A8870CB6A9BF08664D697323F62546C40907F885D6A6407071B4A9B540	4/5/2012	4/4/2022
CN=Rochester RHIO Intermediate CA; OU=Rochester RHIO HISP; O=Rochester RHIO; C=US	43202B9E870659921F9DA26EDA9E47BF6990DB031A0BC0B23AFA1E7968ED3E99	10/21/2014	10/21/2024
CN=Symantec Class 1 Individual Subscriber CA - G5; OU=Symantec Trust Network, Persona Not Validated; O=Symantec Corporation; C=US	42A5FBCA2D6AA262FF62333AB78699CE1E4BF1CF5F49F806FD324CBE5BB62CF4	10/1/2015	9/30/2025
CN=DigiCert Assured ID CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	425E72C87FF22855D9908B71AB4C64B0D2F248287097690C62FE733F631DE38F	11/10/2006	11/10/2021
CN=Western Connecticut Health Network CA; OU=Orion Health Direct Secure Messaging; O=Western Connecticut Health Network; C=US	415322F3970C8CD0F54311E0F93C5F5C37BA3059FDB10F5240AC20934717F840	3/5/2014	3/5/2024
CN=Autoridad Certificante Banco Santander Rio - Empleados G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Banco Santander Rio S.A.; C=AR	4100F6070323E58BB5159290C24D3005601F875687665B48EC4DF65E3F1A8AC2	11/19/2015	11/18/2020
CN=Secure Site Pro Extended Validation CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	40D69920EA05456FA0117DE608B8A8013790B542097E343EC1CBCE2DFB9713B0	6/20/2019	6/20/2029
CN=DigiCert SHA2 Extended Validation Server CA; OU=www.digicert.com; O=DigiCert Inc; C=US	403E062A2653059113285BAF80A0D4AE422C848C9F78FAD01FC94BC5B87FEF1A	10/22/2013	10/22/2028
CN=Louisiana Health Care Quality Forum CA; OU=Orion Health Direct Secure Messaging; O=Louisiana Health Care Quality Forum; C=US	3E4F09D65438B5CF7E456288C08FE9F47ED4E3ED669279C81AEFAB0BAFB86A09	10/22/2013	10/22/2023
CN=TrustAsia Secure Enterprise Email CA; OU=www.trustasia.com; O=TrustAsia Technologies, Inc.; C=CN	3D774B65EE95FD6EFD1C8732B57E607C9BEE423C36E46F6E1CC8CA1F0AE62E23	4/27/2018	4/27/2028
CN=Jax HR Saint Vincents HIE CA; OU=Orion Health Direct Secure Messaging; O=Jax Health Records - SV HIE; C=US	3D2928A2988227CE4EBC319AA34E6552E9D98839D5CE2114E79F8F5EC2BF9DE0	2/16/2015	2/16/2025



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Global CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	3C750409882486D64151F4CBB5BD61432A4A7BF42F48A85198D245A64AEA2117	11/10/2006	11/10/2021
CN=Symantec Class 2 SSP CA - G2; OU=Symantec Trust Network; O=Symantec Corporation; C=US	3C18176FEBA1D20C8BFA7B484066E2A5825A226237E1E7BE3828E6F6C3771B23	3/21/2013	3/20/2023
CN=Cloudflare Inc ECC CA-3; O=Cloudflare, Inc.; C=US	3ABBE63DAF756C5016B6B85F52015FD8E8ACBE277C5087B127A60563A841ED8A	1/27/2020	12/31/2024
CN=DigiCert Extended Validation CG CA; OU=www.digicert.com; O=DigiCert Inc; C=US	38FDF62507CEDEE16B1455E96BD23D5C6F6C5654D68C7E3B27238D2C73744A86	9/24/2018	12/14/2021
CN=DigiCert Baltimore TLS RSA SHA256 2020 CA1; O=DigiCert Inc; C=US	38F73647F1ECAEEC0FC5AFE68AC30E0C26171E9F232F4530729412408FD53626	9/24/2020	5/11/2025
CN=Secure Site Pro Extended Validation CA; OU=www.digicert.com; O=DigiCert Inc; C=US	3883E6DE4917A46B594ECC2D2AC6A95D43E7EAA8E089A91F9BC104FF16DF8DE6	4/27/2018	4/27/2028
CN=New Hampshire Health Information Organization CA; OU=Orion Health Direct Secure Messaging; O=New Hampshire Health Information Organization Corporation; C=US	37E9A271EB4725C93CDAF183562C7D7D9EA8FC139F8374FFE418D77D32428FE0	10/22/2013	10/22/2023
CN=idOnDemand SHA-2 CA G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Identive Group, Inc.; C=US	36CAB8A86139B82476AE824EE4939A92088E6F16C2BD270EE349BF9D5A9E3384	9/5/2013	9/4/2023
CN=GeoTrust SupremeSSL 1 CA; OU=www.supremessl.com; O=SupremeSSL; C=NL	354FCFC6162A0EE2205DBEF68931E78033ECE9D125E0824E49BAEBF82DFDD167	5/7/2019	5/7/2029
CN=TrustAsia OV TLS Pro CA; O=TrustAsia Technologies, Inc.; C=CN	33E8A4ED48930760CE1AD7A2D44F079B22F660052753976109E6FC74752552BD	4/27/2018	4/27/2028
CN=Cybertrust Japan Secure Server CA; O=Cybertrust Japan Co., Ltd.; C=JP	33D57359831F87754E6E755D6B5B56E7E71297DDDFEA1D6397086604280F6FFC	12/7/2016	12/7/2031
CN=MobileMD Direct Intermediate CA; OU=MobileMD; O=MobileMD Health Services; C=US	33CF1F5C9396D7EE9E8283B2E76F400E50450575EB15AD02C956C1C5575B184D	10/21/2014	10/21/2024
CN=DigiCert Global G3 TLS ECC SHA384 2020 CA1; O=DigiCert Inc; C=US	338EDB04FB8BEAF07A10749E7F4E538DE0715DAFB6478D58063FB7C8BDB0C30D	9/24/2020	9/23/2030



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Trust Italia Class 2 CA - G3; OU=Symantec Trust Network; O=Trust Italia S.p.A.; C=IT	3372E8E80644340E8BA0BACCB2AE757747A6CAB8977947AA14EC8838F2F01D34	10/27/2015	10/26/2025
CN=CloudFlare Inc RSA CA-1; O=CloudFlare, Inc.; C=US	328C5991D8383E27D0EBE910BF66C0AF3D748A85D3011A52D88F1D8C8635647F	10/14/2015	10/14/2020
CN=Thawte EV RSA CA G2; O=DigiCert Inc; C=US	3286691412F30ECE5C065FD62F4392A4762D1E77815338359DF390299FBD61EF	7/2/2020	7/2/2030
CN=Oracle TLS RSA CA G1; OU=Organization Validated SSL; O=Oracle Corporation; C=US	319896E3954D510DA3A4B75387E8C870B3BC2C3228D8550916EBE9ABDCB7F921	11/2/2017	11/2/2027
CN=Symantec Class 3 EV SSL CA - G4; OU=Symantec Trust Network; O=Symantec Corporation; C=US	31862233620E789330CC893E8B5E66705331B8B88B0ED30A44574D9E0A71C4F1	1/7/2016	1/6/2026
CN=LfA Foerderbank Bayern - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=LfA Foerderbank Bayern; C=DE	315AC96789B49D48A1C420F32F9A4A73F4871AF75A4CA53CF41CE3FB3E2E76FC	6/16/2015	6/15/2025
CN=Blue Cross Blue Shield of Florida CA G3; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Blue Cross and Blue Shield of Florida, Inc.; C=US	30C955BBF62B0E73573DDD9564A51235ED40B3B5BDD5E9B5561D64F96AD65D6	5/5/2016	5/4/2026
CN=GeoTrust SupremeSSL EV 1 ECC CA; OU=www.supremessl.com; O=SupremeSSL; C=NL	2FBA8FE915415049AA942857CB53137FFD3D9E5A47B27B5782DAB9B4DA7D624D	5/7/2019	5/7/2029
CN=Symantec Class 3 Shared Public Organization CA - SHA256; OU=Symantec Trust Network; O=Symantec Corporation; C=US	2F72019CB45B07AB05CB1BB8ECC3076D7072660B57A29E42EBE2AA57B83BC60B	7/11/2013	7/10/2023
CN=DigiCert Cloud Services CA-1; O=DigiCert Inc; C=US	2F6889961A7CA7067E8BA103C2CF9B9A924F8CA293F11178E23A1978D2F133D3	8/4/2015	8/4/2030
CN=Symantec Class 2 Employee CA - G3; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Symantec Corporation; C=US	2F320624CC3EBC01796080BEDEB5B2ED916F02A0AE5F537EDC4766BC455659DD	1/6/2015	1/5/2025
CN=Hewlett Packard Enterprise Collaboration CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Hewlett Packard Enterprise Company; C=US	2EAA4251B3FFDD3AE904833A08B7FE1E7717C17082455C07F6F6DA902CBAC5D0	3/17/2015	3/16/2025



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=BHPB Secure Email for External Parties CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=BHP Billiton Operations Pty Ltd; C=AU	2EA4E7E0AC42B3BC3DA2D9A7887209BC8CC7958CEE1B52D25B4BE30D6E95AEA8	10/6/2011	10/5/2021
CN=ServiceMaster CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=The ServiceMaster Company; C=US	2E26D155C1B812404C41E7360CF1D93D4664AE267274F64B8114BBE7981E83B2	8/2/2011	8/1/2021
CN=TrustAsia ECC EV TLS Pro CA; O=TrustAsia Technologies, Inc.; C=CN	2DAAC6FDFAC16C548C53FF1198254D7E937761D22A1E7CC5C1A9462E971461F5	4/27/2018	4/27/2028
CN=Care360 Direct Intermediate CA; OU=Care360 Direct Messaging; O=Quest Diagnostics Care360; C=US	2D602B1F166D6316DAFD46B4B1EDD6DCFC54D2AF8A944BE358858FD504AAA16B	8/25/2015	8/25/2025
CN=GE SMIME Issuing CA 2.1; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=General Electric Company; C=US	2D53B8177062E4C7CEA79EEBF62BFA52A5B18BC9B89483597E5714E4E9B52315	7/16/2015	7/15/2025
CN=GeoTrust EV RSA CA G2; O=DigiCert Inc; C=US	2D140F20B8A96E2B4D2F1CC5ACA5E5A1E7DC56A7491E510906960F38D2D21AEF	7/2/2020	7/2/2030
CN=State Street Bank and Trust - Global Markets CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=State Street Bank and Trust Company; C=US	2C68D776FFD51155D98957A66043F896E2BC69CB1943570389350057A2C70616	7/10/2015	7/9/2025
CN=Blue Cross Blue Shield of Florida CA G2; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Blue Cross Blue Shield of Florida; C=US	2B6B476D7B6F01188226DC5A735AB94427B7000D31FFFFD9678E9E704A8BF4BB2	3/1/2011	2/28/2021
CN=DigiCert EV Code Signing CA (SHA2) G3; OU=www.digicert.com; O=DigiCert Inc; C=US	2B0A972DC0DAE218E9477396D3D82DEB82DE118867DD19E1D2FFFD958CBB6DA9	7/18/2018	7/18/2028
CN=DigiCert SHA2 Assured ID Code Signing CA - G2; OU=www.digicert.com; O=DigiCert Inc; C=US	2A9D0D018BB49FDEA14D6C16E9BA0A942F2833B9AADFFBAD1306E301B495CFB7	7/18/2018	7/18/2028
CN=AlwaysOnSSL TLS RSA CA G1; OU=Domain Validated SSL; O=CertCenter AG; C=DE	2A41BA819EB6125AF5CB4B8B0E9E954ECE798C2A7EE43DCDAF7D395987C4D552	11/2/2017	11/2/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Grid Trust CA G2; OU=www.digicert.com; O=DigiCert Grid; C=US	28CBB4E0D9C4EE6D04AC8F14717605AE3A4BD8CBF8D081B27AF6EDB2F3D76A32	1/8/2014	1/8/2029
CN=Nedbank Limited Public CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Nedbank Limited; C=ZA	267D014C81E6D02ED5898306B64D7B5EA91BAF9DB3183CF3BC64C25D2B35CAE6	9/10/2015	9/9/2025
CN=Telenor Norge AS Test EDC CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	26661F230442332E5F8F109C05A3FAA3EA339C29D22B07B8D1A048C693FA1F0C	9/3/2015	9/2/2025
CN=DigiCert Transition Issuing CA G3; OU=www.digicert.com; O=DigiCert, Inc; C=US	25B66390DD425867EC0DE58A6B198F5985BE58A43A4605E1A0B8C6F35B92D7EE	12/8/2017	12/8/2027
CN=CrossCert Class 2 CA - G3; OU=Symantec Trust Network; O=KECA, Inc.; C=KR	25A088C9773E4460E19971EF781BE81BDB7704ED5E486B267866A3AB6C2C0D44	6/4/2015	6/3/2025
CN=DigiCert TLS RSA SHA256 2020 CA1; O=DigiCert Inc; C=US	25768713D3B459F9382D2A594F85F34709FD2A8930731542A4146FFB246BEC69	9/24/2020	9/23/2030
CN=Optum Public Trust CA 1; O=Optum; C=US	253E3C9732DF8874C3D54DA522C1711142C98C2CEA7664635152A89A03EE9364	4/28/2015	4/28/2025
CN=DigiCert Secure Auth CA; OU=www.digicert.com; O=DigiCert Inc; C=US	24E9F20AC167BB8F09DE8A1E9968CC53F0B5F3A4948F51B8647B40B186C75EBE	4/23/2014	4/23/2029
CN=GeoTrust CN RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	23DDF08B22373D86158EB9C99FDB5366B19804560531372DD20DCE3FB766F56C	6/20/2019	6/20/2029
CN=Mass Hlway CA; OU=Orion Health Direct Secure Messaging; O=Massachusetts Health Information Highway (Mass Hlway); C=US	23BA3A97C580DF2C316624D7FA5F7663580261CB2048142C73A3E86B113EB26D	9/25/2015	9/25/2025
CN=Medicity Direct CA; OU=www.medicity.com; O=Medicity Inc.; C=US	231BA402E28B3495F3BE0CAD87078D9B8FBD86041116AF9B8047E7B1CFFA82D0	2/13/2014	2/13/2024
CN=Telenor Norge AS NF CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Telenor Norge AS; C=NO	22261C8F0BCD85571AF2F801C47712E6C16DCAE3C7DFC4CD2451D9C538B349D1	9/3/2015	9/2/2025



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert High Assurance CA-3; OU=www.digicert.com; O=DigiCert Inc; C=US	21EB37AB4CF6EF8965EC1766409CA76B8B2E03F2D1A388DF734208E86DEEE679	4/2/2008	4/3/2022
CN=TrustCubes ICA G1; OU=www.trustcubes.com; O=TRUSTCUBES LIMITED; C=GB	2106CC7907C64B8A5DA2FC338EE94DFFF10EF711DEDDB4FC694EE092EC532B1D	7/18/2018	7/18/2028
CN=Huntsville Hospital System CA; OU=Orion Health Direct Secure Messaging; O=Huntsville Hospital System; C=US	20E3E88747A8D88E11A527521032DC8CAE92BC33B45C93EEE04F624A70DC920A	3/5/2014	3/5/2024
CN=Avaya Client Services Users CA 2; OU=Avaya IT, Class 2 DigiCert PKI Platform Individual Subscriber CA; O=Avaya Inc; C=US	1FFA0D1F55CE4A0507E8C38E8B557B88CBDD690D903D996B1F7850D81D6A4A93	11/26/2019	11/26/2029
CN=Symantec Class 3 Extended Validation SHA256 SSL CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	1F9B31F820929EBFA03117EC2B77BA6B0FB6ECC9E027682A559378DA311C54EF	4/9/2013	4/8/2023
CN=DigiCert Global G2 TLS RSA SHA256 2020 CA1; O=DigiCert Inc; C=US	1F8EB9E9A8E066CC5B3833E06B3129764B622639D5B163F600E1C79120BF3EED	9/24/2020	9/23/2030
CN=Inland Empire Health Information Exchange; OU=Inland Empire Health Information Exchange; O=Inland Empire EHR Resource Center; C=US	1E72D83ED9499CBA686968452BE591C48816EC9181391A5D03C1F4D3BA1658DC	1/8/2014	1/8/2024
CN=Encryption Everywhere ECC DV TLS CA; OU=www.digicert.com; O=DigiCert Inc; C=US	1E4FC34D26E0793D559E322FE111F1E19A9D2E34BC25D3C427B032A48D2C5B6A	7/23/2019	7/23/2029
CN=DigiCert Grid Trust CA; OU=www.digicert.com; O=DigiCert Grid; C=US	1E0A3AB993157717281D42ABF801EB64DEED500E4168CA706D6A71D8103C73A2	12/7/2011	12/7/2026
CN=Aetna Inc. Secure EV CA2; O=Aetna Inc; C=US	1DDFDDF883E3945B2CB24FA5B83788379C5AB058422AB979DF66C77473988687	12/8/2017	12/8/2027
CN=GeoTrust TLS DV RSA Mixed SHA256 2021 CA-1; O=DigiCert Inc; C=US	1D80CD18A794F1F4850EDC33C6048F02E85386A47F3CE836974A8E452A60D7F2	1/1/2021	9/30/2022
CN=Highmark Tapestry HIE CA; OU=Orion Health Direct Secure Messaging; O=High Mark HIE, LLC; C=US	1B68286DEFCE036512A5DAC76C8ABD067D33A07D4E0DEF7707089C980075E192	8/19/2014	8/19/2024
CN=DigiCert Direct Non-Provider CA; OU=www.digicert.com; O=DigiCert Inc; C=US	1AEDDADDC1ED748543EAF5960DF96AD51E21A3164F30A0640CB0732365D39062	2/11/2014	2/11/2024



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=KPN Corporate Market Class 2 CA; OU=Symantec Trust Network; O=KPN Corporate Market B.V.; C=NL	1AED19D0E4F63058B17FFE2A552975F03FCBDE8367B287171E575868BE14F938	3/16/2012	3/15/2022
CN=Veritas Technologies LLC Class 2 Employee CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Veritas Technologies LLC; C=US	1AB7DCA7F8B28027F2B71FBB8A8CB87162FE112C47AC4D09638C8EA01915A177D	9/10/2015	9/9/2025
CN=Secure Site Extended Validation CA; OU=www.digicert.com; O=DigiCert Inc; C=US	1A8D790AF9B2B34D7DD6AF61B5AA4CF1380B86095CBAC2BCAB35BD566D0180C3	4/27/2018	4/27/2028
CN=Cisco Meraki CA; O=Cisco Systems, Inc.; C=US	199EE58009555DAE2CDA0626931C64391D6A88CCCB1F9F0B2EE80B667F581C06	7/12/2016	7/12/2026
CN=Honeywell International CA G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Honeywell International Inc.; C=US	19550DF2A43B367AFA194C34F3C3CBF8678E346691F895F429871EEADA53F7F8	6/7/2012	6/6/2022
CN=DigiCert SHA2 High Assurance Server CA; OU=www.digicert.com; O=DigiCert Inc; C=US	19400BE5B7A31FB733917700789D2F0A2471C0C9D506C0E504C06C16D7CB17C0	10/22/2013	10/22/2028
CN=Trust Technologies Global CA; OU=Digital Identity and Security; O=Telecom Italia Trust Technologies S.r.l.; C=IT	191E0B48B78B7EFA4822A465AD69B34405B878D10BD853D8E57CB8B9D9E50B8B	8/24/2017	5/10/2025
CN=GeoTrust EV RSA CA 2018; OU=www.digicert.com; O=DigiCert Inc; C=US	185C0AE470423B9D4678A7C1055B5B48D90705505B794E215C063851336981F4	11/6/2017	11/6/2027
CN=Mississippi Division of Medicaid CA; OU=Orion Health Direct Secure Messaging; O=Mississippi Division of Medicaid; C=US	1757291A3D7D0BB5B9B9CF8802F1B2AE173E56B0935970FC86B63A27499DB5E2	1/8/2014	1/8/2024
CN=WIPO CA - G4; OU=Class 2 Managed PKI Individual Subscriber CA; O=World Intellectual Property Organization; C=CH	16D809ED155C2AC7E9489E1A204116C9D16EFBE4C91F53369725A2B395535E28	1/29/2019	1/29/2024
CN=Encryption Everywhere DV TLS CA - G1; OU=www.digicert.com; O=DigiCert Inc; C=US	15EB0A75C673ABFBDCD2FAFC02823C91FE6CBC36E00788442C8754D72BEC3717	11/27/2017	11/27/2027
CN=GeoTrust Class 3 RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	15C81322DA22F1EE7C8231ACC0B52E4F17A7AE6B30811BA2F667E648FF82D8AA	11/2/2017	11/2/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert SHA2 Secure Server CA; O=DigiCert Inc; C=US	154C433C491929C5EF686E838E323664A00E6A0D822CCC958FB4DAB03E49A08F	3/8/2013	3/8/2023
CN=Catholic Health Initiatives CA; OU=Orion Health Direct Secure Messaging; O=Catholic Health Initiatives; C=US	151A3591B765D02C359EEC9C56ED8DDAD0C54E756A497D02BF979FA8DD5D95BB	8/19/2014	8/19/2024
CN=DigiCert Assured ID Client CA G3; OU=www.digicert.com; O=DigiCert Inc; C=US	14FAFCA84BDB8B0EC32719272BE730FE18D6FC29301C5CF789400596EC429AFE	9/23/2019	9/23/2034
CN=DigiCert Secure Site EV CN CA G3; O=DigiCert Inc; C=US	139AC36BD85398BBB4588687C20DC36827D03A5F42AADF87F02BECC4BE9BFC2	3/13/2020	3/13/2030
CN=Trust Provider B.V. RSA CA G1; OU=Domain Validated SSL; O=Trust Provider B.V.; C=NL	126505E929334CC3C73EE826E5A4E1C4ADB90C710805759F6CB69FFACB76A276	11/2/2017	11/2/2027
CN=DigiCert High Assurance EV CA-2; OU=www.digicert.com; O=DigiCert Inc; C=US	1188F831C949A62E9CD4F60E36F72544F0AF924DE07F9DA992E26E44C996EEE0	3/23/2007	3/23/2022
CN=Mary Washington Healthcare CA; OU=Orion Health Direct Secure Messaging; O=Mary Washington Healthcare; C=US	1180C33AE1F23228923F6AE698C9C10DC729E0D811FC8B2EC02726E2DC26E2E4	3/5/2014	3/5/2024
CN=New Mexico Health Information Collaborative CA; OU=Orion Health Direct Secure Messaging; O=New Mexico Health Information Collaborative; C=US	10BEDDC480AA27563480B1BCAAB6C25B52995EA836E9A2ACE83F8F59206E2496	9/26/2014	9/26/2024
CN=Symantec Class 2 Individual Signing ECC CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	109AEA4F367823989B6C3638A56933ADC682EEBB2F655A16E6363263B4A729DB	1/22/2015	1/20/2030
CN=Legacy Technologies Intermediate; O=Legacy Technologies GmbH; C=DE	1032C6001ED664A0CD343B138BCB6860E2111011C3D5F06540F5BE41147812A5	7/2/2020	7/2/2030
CN=Symantec Class 2 Shared Intermediate Certificate Authority; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Symantec Corporation; C=US	0FE7E3781F9603BBED69B2145842FA8782F552BD35F3D438D69578794014E91E	6/7/2011	6/6/2021
CN=GeoTrust SupremeSSL EV 1 CA; OU=www.supremessl.com; O=SupremeSSL; C=NL	0FB6CE80909D19AFEE6A88C959E9E9AA6466715BCE05C6449FEB530A086DAF14	5/7/2019	5/7/2029



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Accredited Direct Med CA; OU=www.digicert.com; O=DigiCert Inc; C=US	0E78434EC8AD6613562C8390D8B3306FC6087E0593C7D5AC2FAF9AD263879745	8/6/2013	8/6/2023
CN=Cybertrust Japan Extended Validation Server CA; O=Cybertrust Japan Co., Ltd.; C=JP	0E10BDDEE7512DBD79EBF0B4F48FEED7C83C2BD3DD81765565F4FF110B7BFA42	12/7/2016	12/7/2031
CN=TrustAsia EV TLS Pro CA G2; O=TrustAsia Technologies, Inc.; C=CN	0D51B6CDCF34A9F22144787F3FD920DC8800FB60490BFC8D289A1953E0FBDA4D	6/20/2019	6/20/2029
CN=APMM Certificate Authority; OU=VeriSign Trust Network; O=APMM A/S; C=DK	0CB82687CD03AD535A4276924064799A49E43D39A897CC86216C4FD52347B937	9/22/2011	9/21/2021
CN=Nokia Solutions and Networks CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Nokia Solutions and Networks; C=FI	0B5F13974CEB577E1CC39DFFADF616FCF0C17ECA6747201AEBA6AF3BC20CE4F4	10/10/2013	10/9/2023
CN=SGN FISGLOBAL PUBLIC CA; OU=Class 2 Managed PKI Individual Subscriber CA; O=Fidelity National Information Services, Inc.; C=US	0AD6A7334A5A23C986980F6FECD25006B563A0B6F1BCAA65C0345BA2D96928D3	1/8/2019	1/8/2024
CN=BHP Billiton Group Operations Pty Ltd Secure Email CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=BHP Billiton Group Operations Pty Ltd; C=AU	0A9DBB4BE5DDB8EEF54EE13B36EB97DD8BEBFD7B0AFA8B9C9A215EB724A4E88D	8/18/2011	8/17/2021
CN=The Mauritius Commercial Bank Limited CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=The Mauritius Commercial Bank Limited; C=MU	0A646FDC704F494A67739A7E99FD74955BB0AF1ABA622CEFE000B39557C5FC81	9/30/2014	9/29/2024
CN=Aetna Inc. Secure EV CA; O=Aetna Inc; C=US	0A163600631BD66267FB7AEAD25C538B2B7D72AD6416A2BBD285F654BB642F6D	12/9/2014	12/9/2024
CN=Cerner Corporation Direct Intermediate CA; OU=Cerner Direct; O=Cerner Corporation; C=US	09DE7FA739EE47C06291845F2E0E8A9E1C7CC2900AD354CF167316E02386BD9B	9/26/2014	9/26/2024
CN=WoTrus OV SSL Pro CA; O=WoTrus CA Limited; C=CN	09033FE23996FE4A59C4C0F523D2560E31DFE4C17D8EA1403D429A971F4BD65A	2/9/2018	2/9/2028



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert SHA2 Extended Validation Server CA-3; OU=www.digicert.com; O=DigiCert, Inc.; C=US	085A0714524DF7AE9919A6F597884439E12A533E61552D29D6A18C35096FC548	11/12/2019	11/12/2029
CN=DigiCert High Assurance EV Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	071B8B4B13AD7B2BE09FDD7FBDF3482460838098C21519B83B3150F8E919832D	8/13/2018	11/4/2022
CN=WoTrus EV SSL Pro CA; O=WoTrus CA Limited; C=CN	070531383CCD100D3E9CD964DB07AA5E845A0686F2EAE3BC8A627B182057B1F1	2/9/2018	2/9/2028
CN=Greenville Health System CA; OU=Orion Health Direct Secure Messaging; O=Greenville Health System; C=US	06433FCA9F753980B526236DD72846EC1B20770BFCC7D3188DD67BC0ECFB7782	3/5/2014	3/5/2024
CN=KPN Telecom B.V. CA - G2; OU=VeriSign Trust Network; O=KPN Telecom B.V.; C=NL	04832F085D97CBA843F46D650FD6F5A7E1458462706EBAF9E0B9E9FEFC052350	12/3/2008	12/2/2023
CN=TrustAsia Secure Email CA; OU=www.trustasia.com; O=TrustAsia Technologies, Inc.; C=CN	047217772051D292238F3355F5C5435E9B84364CCD143FC49F9C31CD605439F0	4/27/2018	4/27/2028
CN=CertiSur Class 2 CA - G3; OU=Symantec Trust Network; O=CertiSur S.A.	041E70B7DDDD0F29F0F285C4C71E0E20533312A10773794A21B5791EC8755958	8/18/2015	8/17/2025
CN=DigiCert CN RSA CA G1; OU=www.digicert.com; O=DigiCert Inc; C=US	03CE9BC71B91FDB7CB3C5235CAE0701CB486BBD628D4AADE5841FC5F0AA37A46	6/20/2019	6/20/2029
CN=TrustAsia TLS RSA CA G8; OU=Domain Validated SSL; O=TrustAsia Technologies, Inc.; C=CN	036A18F5F0EB9DD5EE02B7854DF5C33845601D8939CFB7B607F69D142C01D909	11/2/2017	11/2/2027
CN=Secure Site Pro CA G2; OU=www.digicert.com; O=DigiCert Inc; C=US	02FED3BA2E6A7843A318A981BC847061FD282D9E8847FFA9F54D785B6B81D6F3	6/20/2019	6/20/2029
CN=VeriSign Japan Class 1 CA - G5; OU=Symantec Trust Network; O=VeriSign Japan K.K.; C=JP	02E9E323CD6F98374079523514C3783AC1003AB80ABCBA0EE2258C418EAC44CC	7/24/2012	7/23/2022
CN=.NET Foundation Projects Code Signing CA; O=.NET Foundation; C=US	024F162B1D09F6A0868C38B4C8B4257C1EEA6C5A31589416D520CF1624917EB3	4/27/2018	4/27/2028
CN=Moog, Inc. M2 CA; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Moog, Inc.; C=US	01C235311274307F4457E079E1E11CCB0AB5B2A9F9919B269A5D304821F93FB8	7/19/2012	7/18/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Certisign Class 2 CA - G3; OU=Symantec Trust Network; O=Certisign Certificadora Digital S.A.; C=BR	011B074C1D1D22A927406597AB4E5114F5C045612EC98CC429A1A93E1986E6F6	9/22/2015	9/21/2025
CN=DigiCert Secure Site ECC CN CA G3; O=DigiCert Inc; C=US	00C0CBA95CBFE1E270814275F32B505D6E5916C2B6DA67FAF4DD309EE6E86CBE	3/13/2020	3/13/2030
CN=Trust Provider B.V. TLS RSA CA G1; OU=Domain Validated SSL; O=Trust Provider B.V.; C=NL	009871C3A4C607311E5AE92F01095F9BF76100B8794AB0A9A5210E6794C8607C	11/2/2017	11/2/2027
CN=Volvo Car Corporation CA; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Volvo Car Corporation AB; C=SE	00712AC5314A938E0D6188AE8D4C3566AE6C6AE9EB006FBAA5DE4239AF4427A5	3/29/2011	3/28/2021
CN=Maersk Line Certification Authority; OU=VeriSign Trust Network, Terms of use at https://www.verisign.com/rpa (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Maersk Line A/S; C=DK	0059C30A64B18C372D316EB373C4D687091ED202C4499AB8C1D5D3D0F12F1689	9/22/2011	9/21/2021
/C=US/O=DigiCert, Inc./OU=www.digicert.com/CN=DigiCert Direct Secure ID CA-1	F4DC08264086D51D0A4CFA5ED05C337120AF9899206395418B4CE9BBC507564A	10/25/2016	10/25/2026
/C=US/O=Anthem, Inc./CN=Anthem Direct CA	F9ECB6EC9845F124392FE8C1B6BE0D18CB667834ADCF44DF8DFB316323673454	3/22/2017	3/22/2027
/C=US/O=GSI Health/OU=GSI Direct Messaging/CN=GSI Health Direct CA	812D54BEDF8EC9C7082EFD4B9FE5E44E420FEFDA282EB03D33DA77DEC5C0B5A5	10/25/2016	10/25/2026
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Federated ID L3 CA	9EB1E7AB3D9559088B9926A6569CFB645FBDC72A758815B1B1C78A0159FB6863	12/16/2019	2/28/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Federated ID L3 CA	504AEDFB9D65D11926B1352295737F31F687246E5A2D49634667795DA47958A	2/28/2019	2/28/2022
/C=JP/O=KYOCERA COMMUNICATION SYSTEMS Co.,Ltd./OU=Symantec Trust Network/OU=Class 1 Managed PKI Individual Subscriber CA/CN=DATACENTER CA - G2	EA70CA9465E25593BAB909A9DBF8F095C0B20BFBB54F1D185D464CCC8A431F4B	4/15/2014	6/6/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=JP/O=Bank Of Japan/OU=Symantec Trust Network/OU=Class 1 Managed PKI Individual Subscriber CA/CN=Gaitame CA - G3	D20118563ACC4AB2D1DF217E3974D00877F71D2B74959F43FED33C45EBF5FB31	9/6/2012	7/22/2022
/C=JP/O=Bank Of Japan/OU=Symantec Trust Network/OU=Class 1 Managed PKI Individual Subscriber CA/CN=Gaitame CA - G3	58F0778CB9969B09B24BDC96A03091B0AA98BAFF9C23F82B78B061035D85A65F	9/6/2012	7/22/2022
/C=JP/O=Symantec Japan, Inc./OU=Symantec Trust Network/OU=Class 1 Managed PKI Individual Subscriber CA/CN=Application Service CA	2B3188332031E548FE424A7A3ABB47701FA089D9D0EEAE35585CA72974BDA69C	4/28/2015	4/27/2022
/O=NTT DOCOMO, Inc./OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.co.jp/rpa(c)11/OU=Class 2 Managed PKI Individual Subscriber CA/CN=NTT DOCOMO Group CA - G2	A75939F270BA6F23ECEE83C70A3755EB46449FE2707FF01D626FB745158F9413	4/15/2014	8/15/2021
/C=JP/O=DAIICHI SANKYO COMPANY, LIMITED/OU=Symantec Trust Network/OU=Class 2 Managed PKI Individual Subscriber CA/CN=DAIICHI SANKYO COMPANY Public CA - G2	68361FD0131D79AC91C9939F3E5479CA32E2BE419A7CF519E026F992234509EE	4/15/2014	8/27/2022
/C=JP/O=Astellas Pharma Inc./OU=Symantec Trust Network/OU=Class 2 Managed PKI Individual Subscriber CA/CN=Astellas Global SMIME CA - G2	B2ED9A6D9B6C48DD1494EE0CD4802179F6208C7F75894DE2607E16573BE464AE	4/15/2014	10/22/2022
/C=JP/O=Symantec Japan, Inc./OU=Symantec Trust Network/OU=Class 2 Managed PKI Individual Subscriber CA/CN=Class2 Individual Certificate Service CA	9268449725E5DE18F8A76548BBEC1F8C845B17387590E1855BFFCA5B02CF6C28	1/22/2015	4/13/2024
/C=JP/O=The Financial Futures Association of Japan/OU=Symantec Trust Network/OU=Class 2 Managed PKI Individual Subscriber CA/CN=FFAJ Public CA - G2	FE27C2688969B46B83A585AAF53E009AD0D75B4DF64EAB9C085B8F3EBC8EF252	2/16/2016	2/15/2021
/C=US/O=Amazon/OU=Server CA 1B/CN=Amazon	4A1FF6BBF481170D3B773CEC1F3A84DE3B5096575CDBF8B08432209318CA0FBFD	10/21/2015	10/21/2040
/C=US/O=Amazon/OU=Server CA 3B/CN=Amazon	ECC295B6DDCD084BA7179FB53BDD1D422CB6C0A8D94F154D4A5B17780B7279ED	7/16/2018	7/16/2028



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Amazon/OU=Server CA 1B/CN=Amazon	F55F9FFCB83C73453261601C7E044DB15A0F034B93C05830F28635EF889CF670	10/22/2015	10/19/2025
/C=US/O=DigiCert, Inc/CN=DigiCert QuoVadis TLS ICA QuoVadis RCA	A05FE4529A905424740BC61E773C7B882995118934E409421632397C1FE6D0948	1/6/2021	3/17/2021