



## 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 enumerated in the applicable attachments, DigiCert has:

For the CAs enumerated in [Attachment C](#) for the period October 1, 2020 to October 31, 2020:

- disclosed its extended validation code signing (“EV CS”) certificate lifecycle management business practices in the applicable versions of its DigiCert Certification Practices Statement (“CPS”) and DigiCert Certificate Policy (“CP”) as enumerated in [Attachment A](#), including its commitment to provide EV CS certificates in conformity with the CA/Browser Forum Guidelines 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 CS certificates it manages is established and protected throughout their lifecycles; and
  - EV CS subscriber information is properly authenticated
- maintained effective controls to provide reasonable assurance that:
  - requests for EV CS Signing Authority and EV CS Timestamp Authority certificates are properly authenticated; and
  - certificates issued to EV CS Signing Authorities and EV CS Timestamp Authorities are not valid for a period longer than specified by the CA/Browser Forum
- maintained effective controls to provide reasonable assurance that its EV CS Timestamp Authority is operated in conformity with CA/Browser Forum Code Sign Working Group requirements

based on the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation Code Signing Certificates v1.4.1](#).

For its CAs enumerated in [Attachment B](#) for the period October 1, 2020 to October 31, 2020:

- disclosed its code signing (“CS”) certificate lifecycle management business practices in the applicable versions of its DigiCert CPS and DigiCert CP as enumerated in [Attachment A](#), including its commitment to provide CS certificates in conformity with the CA/Browser Forum Code Sign Working Group requirements on its [repository](#), and provided such services in accordance with its disclosed practices



- maintained effective controls to provide reasonable assurance that:
  - CS subscriber information is properly collected, authenticated, and verified; and
  - the integrity of keys and CS certificates it manages is established and protected throughout their lifecycles
- maintained effective controls to provide reasonable assurance that CS Timestamp Authority is operated in conformity with CA/Browser Forum Code Sign Working Group requirements

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

For its CAs enumerated in [Attachment B](#) for the period November 1, 2020 to September 30, 2021:

- disclosed its CS certificate lifecycle management business practices in the applicable versions of its DigiCert CPS and DigiCert CP as enumerated in [Attachment A](#), including its commitment to provide CS certificates in conformity with the applicable Baseline Requirements for the Issuance and Management of Publicly-Trusted Code Signing Certificates, and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
  - CS subscriber information was properly collected, authenticated, and verified;
  - the integrity of keys and CS certificates it manages is established and protected throughout their life cycles.
- maintained effective controls to provide reasonable assurance that CS Timestamp Authority is operated in conformity with the applicable Baseline Requirements for the Issuance and Management of Publicly-Trusted Code Signing Certificates

and, for CAs as enumerated in [Attachment C](#) in scope only for Principle 3: Extended Validation Code Signing Service Requirements:

- maintained effective controls to provide reasonable assurance that:
  - EV CS subscriber information was properly collected, authenticated, and verified;
  - the integrity of keys and EV CS certificates it manages is established and protected throughout their life cycles.

based on the [WebTrust Principles and Criteria for Certification Authorities - Code Sign Baseline Requirements v2.0.](#)

### **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, based on, as applicable:

- [WebTrust Principles and Criteria for Certification Authorities - Extended Validation Code Signing Certificates v1.4.1,](#)



- [WebTrust Principles and Criteria for Certification Authorities - Publicly Trusted Code Signing Certificates v1.0.1](#), and
- [WebTrust Principles and Criteria for Certification Authorities - Code Sign Baseline Requirements v2.0](#).

### **Independent Accountant's Responsibilities**

Our responsibility is to express an opinion about management's assertion based on our examination. 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 unauthorized 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.



### **Use of the WebTrust Seal**

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

*BDO USA, LLP*

December 15, 2021



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

### Certificate Policies

Policy Name	Version	Effective Date
<a href="#">DigiCert Certificate Policy</a>	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
<a href="#">DigiCert Certification Practices Statement</a>	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 FOR CODE SIGNING

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
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=Symantec Class 1 Public Primary Certification Authority - G6; OU=Symantec Trust Network; O=Symantec Corporation; C=US	9D190B2E314566685BE8A889E27AA8C7D7AE1D8AADD8A3C1ECF9D24863CD34B9	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	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	7D05EBB682339F8C9451EE094EEBF8F7953A114EDB2F44949452FAB7D2FC185	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
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



Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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
CN=Symantec Web PKI RSA Root - G1; OU=Symantec Trust Network; O=Symantec Corporation; C=US	F6BB5B7985A8736594C14679FA31603814502AAEB5F4282A69985DC84A450777	9/21/2017	9/20/2042
CN=Cybertrust Global Root; O=Cybertrust, Inc	802447EE521CC666CDB7BBAE93A385E55F200D76A3D1356A85445AC4CDBED12	1/8/2014	12/15/2030
CN=Symantec Web PKI ECC Root - G1; OU=Symantec Trust Network; O=Symantec Corporation; C=US	92BB72F15EB75DE467C84B438181034BD4E9A016EC26434BEE3C9BBAD8CD8AF0	9/21/2017	9/20/2042
CN=DigiCert High Assurance EV Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	071B8B4B13AD7B2BE09FDD7FBDF3482460838098C21519B83B3150F8E919832D	8/13/2018	11/4/2022



Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 2007 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G4	69DDD7EA90BB57C93E135DC85EA6FCD5480B603239BDC454FC758B2A26CF7F79	11/5/2007	1/18/2038
/C=ZA/ST=Western Cape/L=Durbanville/O=Thawte/OU=Thawte Certification/CN=Thawte Timestamping CA	6B6C1E01F590F5AFC5FCF85CD0B9396884048659FC2C6D1170D68B045216C3FD	1/1/1997	12/31/2020
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 2006 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G5	9ACFAB7E43C8D880D06B262A94DEEEE4B4659989C3D0CAF19BAF6405E41AB7DF	11/8/2006	7/16/2036
/C=US/O=GeoTrust Inc./CN=GeoTrust Universal CA 2	A0234F3BC8527CA5628EEC81AD5D69895DA5680DC91D1CB8477F33F878B95B0B	3/4/2004	3/4/2029
/C=US/O=GeoTrust Inc./CN=GeoTrust Universal CA	A0459B9F63B22559F5FA5D4C6DB3F9F72FF19342033578F073BF1D1B46CBB912	3/4/2004	3/4/2029
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 1999 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G3	EB04CF5EB1F39AFA762F2BB120F296CBA520C1B97DB1589565B81CB9A17B7244	10/1/1999	7/16/2036



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
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Transition RSA Root	0D88900DBB68C6CA5471F653FCACD407EBD7B1519046F9E0B8CED3C274FD11A1	11/6/2017	11/5/2022
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=DigiCert Transition Root G3	0F57B96FA7B31247EC39CB307D38CA2BF3B29F54AFD50A351D18533529517B46	12/8/2017	12/7/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G2	2D4FAD3455AB61397401ABBB518922F84336B67E02FC8D2DB283825C4AB981BB	11/6/2017	11/5/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G3	53A5E32ACC5714ED20C7778C655D1EE97EC07156074C8B016E2CFC73E9D2712B	11/6/2017	11/5/2022
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=thawte Primary G3 Transition Root	85743AEA6A97C13445E0824C2E1FE502B97ADD124A97EF5120FE07F55812FC33	12/8/2017	12/7/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G2	AADADD5A879D2EB8C41A89597291292709D42052F5B6399541C694C3B7353CD1	4/3/2018	4/2/2028
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 2006 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G5	D9BC973F88909696DA10833197944CA58AC4A88847779C9133374267100EEC58	11/8/2006	11/7/2021
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Transition ECC Root	DB98194E55B936D26E6CB3F460A262EB6CA66337E7BFF17A0BFC083251F63626	11/6/2017	11/5/2022
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=thawte Primary Transition Root	DBA1097710F3C629943C23DC7503AC82B9142825EF049F1C26538DB36B480549	12/8/2017	12/7/2022



Cross-Signed Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=GeoTrust Primary Transition Root	F54F6CED56CF682B570A6CAEC313E9482760DE12E8F928AE30452C4C66AC761A	12/8/2017	12/7/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Trusted G4 Code Signing RSA4096 SHA384 2021 CA1; O=DigiCert, Inc.; C=US	46011EDE1C147EB2BC731A539B7C047B7EE93E48B9D3C3BA710CE132BBDFAC6B	4/29/2021	4/28/2036
CN=DigiCert Global G3 Code Signing ECC SHA384 2021 CA1; O=DigiCert, Inc.; C=US	35769D41EF436A4D63DDB00AB11C6CE968989FCDD829E7018F5DB90AC4BD3CD0	4/29/2021	4/28/2036
CN=DigiCert Global Root G2; OU=www.digicert.com; O=DigiCert Inc; C=US	0BA8C0D459B76ABC0825294F565E24F4F169D4A4819D0692D371522D297724B8	3/4/2021	3/3/2031
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 One AATL CA; O=DigiCert Inc.; C=US	419507E46D6520ECEC453A0C2B5292A099431C35E8967A6D0EE573CAAB116C71	4/29/2021	4/28/2031
CN=.NET Foundation Projects Code Signing CA2; O=.NET Foundation; C=US	D60D2D02F83920E89C0063AECA7C4630642C80EB824FFE43D9A11C250E5F51B9	7/15/2021	7/14/2031
/C=US/O=DigiCert, Inc./CN=DigiCert G5 CS ECC SHA384 2021 CA1	EDAEC94C3C0F7C3239312EAAF7B76D499410A55D0E008CB6A64779DAD3A1998	2/11/2021	2/10/2036
/C=US/O=DigiCert, Inc./CN=DigiCert G5 CS RSA4096 SHA384 2021 CA1	26A9454579B138E765087276AF42C1C206C8B2ED0DE6639D1BA992626A797A91	2/11/2021	2/10/2036
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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
/C=US/O=Symantec Corporation/CN=Symantec SHA1 SAS Code Signing CA	F82CF9003A28693F430C7E939581097BA097C93AEE510A105D7822324F364C9A	10/8/2015	5/20/2022
CN=OFAC VPN CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=WoSign EV Code Signing Pro CA; O=WoSign CA Limited; C=CN	F6DFDED61FF88EF10B9E6DCFBCE0F1615E05866CEBAFCD6D48AEE80132C70347	5/23/2017	5/23/2027
CN=DigiCert SHA1 Code Signing ICA VRSN PCA3-G1; OU=www.digicert.com; O=DigiCert, Inc.; C=US	F6A54A76C4A0B529ADC8D457B503A7B3ADF8B0AEAAE8EE72D0FEFD2372E8199B	5/9/2019	8/1/2028
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=DigiCert Federated ID L4 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	EFB2A3F37273D3589047919825EA5337E9B938A8C178B61C18C2B4270B9665AC	10/30/2012	10/30/2022
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	EC28782BFB997875946D078C3A9C6481D34D5F775D29F0F8CB80010C9331398	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	EAEFEB08D568E7F6CF6D892CAB6A22E14F20C6F10E3A418CFB42B12309333367	1/8/2014	1/8/2024



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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=OFAC VPN CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=MRO Direct Intermediate CA; OU=MRO HIE Solutions; O=MRO Corporation; C=US	E25DE970AA8B85CDF55417897F65DE64C63A55D61EE9E4B830261DCFBFFFB4	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=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=Abbott Laboratories Secure Authentication CA; O=Abbott Laboratories Inc.; C=US	DB99A4F284CCF10B26DE7B7A5D651725B857CBC871EBB33028D67B55510EFC9D	8/23/2016	8/23/2026



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Rush Health CA; OU=Orion Health Direct Secure Messaging; O=Rush Health; C=US	DB12B1D3F8CC52FFF4874F0A8B85E9FB6A2050861B1B1C61481A743AC0D33D5A	4/23/2014	4/23/2024
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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)10, Class 2 Managed PKI Individual Subscriber CA; O=Bridgewater Associates, LP.; C=US	D8E79EBED997B764E6D0DF624F2DBB4EFF2A1B6049C6F1A1A1E88263C43DB221	10/12/2010	10/11/2020
CN=Symantec Japan Class 1 CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	D6A3574E4C2AA2D15397D5A9BEFCF8380910CC0148BAB86A0B9FF40E2659BCE8	4/15/2014	4/14/2024
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=Brown Brothers Harriman & Co. CA - G2; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Brown Brothers Harriman & Co.; C=US	CFBF988B04B41842824B287999092EB3AB6CD8DFCEB49BD3D5D48345A5B4818B	2/8/2011	2/7/2021



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	CF47B370761E9CA40096CDBD0C34B61429957E410780339A0D005D73E371204E	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 <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa(c)11</a> , Class 2 Managed PKI Individual Subscriber CA; O=A.P. Moller - Maersk A/S; C=DK	CDC453969304BEE6A58D9BABC0AAC4C4CE2156A1C172A2585E546079144E4E58	5/3/2011	5/2/2021
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=Symantec Class 2 Shared Intermediate Certificate Authority; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa(c)11</a> , 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
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=DigiCert EV Code Signing CA (SHA2); OU=www.digicert.com; O=DigiCert Inc; C=US	C7460B0EDDA1B44C8E2164B234EBECC3962A6A37A936B74A6E7D46682938F084	4/18/2012	4/18/2027
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=DigiCert SHA2 High Assurance Code Signing CA; OU=www.digicert.com; O=DigiCert Inc; C=US	C51B83A0DE49A201A5FBE947032C04702F8CA7C2D02ADF28B73D42C8ACD1C362	10/22/2013	10/22/2028
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
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=Symantec Class 3 Extended Validation Code Signing CA - G3; OU=Symantec Trust Network; O=Symantec Corporation; C=US	C267DC115D57DD0226279B346DF1953DD2C07A85CB48A0D899FD5724F5AF681F	5/12/2016	5/11/2026
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=Indian Health Service-RPMS DIRECT Messaging CA; OU=directihs.net; O=Indian Health Service; C=US	C07E9037CB81012D3046613285C14B63A0284964A4F5A821FC3B18ECDEBA0A66	4/4/2014	4/4/2024



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=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 <a href="https://www.verisign.com/rpa(c)10">https://www.verisign.com/rpa(c)10</a> , 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=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
CN=AAMC Direct Intermediate CA; OU=AAMC Direct Messaging; O=Anne Arundel Medical Center; C=US	BB1C01E884DD0919AB94D5AF5575CD6FEB71E560B2B58735A78B150A10D54BF3	5/28/2015	5/28/2025



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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	B864FF6DE0CB1BEAF6AA5C68DB8769C91F18E1721E22AC3ECD91C0889D77078	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=CompuGroup Medical Certificate Authority; OU=IT; O=Compugroup Medical, Inc; C=US	B604026A3590392ABEFB6B18E8176453656115D2A0060F713E191A9FD076532A	12/8/2015	12/8/2025
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=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=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=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=Cal INDEX CA; OU=Orion Health Direct Secure Messaging; O=California Integrated Data Exchange, Inc.; C=US	A5226F33474B53392665298B48F4E6129824E98BD4D38DF4E31EBBCF14FA33CD	7/12/2016	7/12/2026



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Orion Health Direct Secure Messaging CA; OU=Orion Health Direct Secure Messaging; O=Orion Health Inc.; C=US	A4106DA85F7B34A6D3DE37884D1528916B84F046FFB7D4AAC52117B0C6995F3	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=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=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=INTEGRIS Direct Intermediate CA; OU=INTEGRIS DIRECT Messaging HISP; O=INTEGRIS; C=US	97D276C5FDF2DC94539ABB9E17BC3995730CD51739EAE95B0F67B39E99905F11	11/18/2014	11/18/2024
CN=NCC Group Secure Server CA G3; O=NCC Group; C=US	963056B0D941D9DBE27AC778053D85E43CC79F476AD34CFDD799C27E381840EB	7/30/2014	7/30/2029
CN=DigiCert Secure Server CA; O=DigiCert Inc; C=US	94D4ECE2ED9A5457B969A13B260489E9A5FE4790A041F27A3EB4126C84418EF9	3/8/2013	3/8/2023
CN=DigiCert Assured ID CA G2; O=DigiCert Inc; C=US	93C381CB07B353A920C2A78ED6BEBF195C68279DD0527D37F20BDD0D99C330FA	8/1/2013	8/1/2028
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=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=GeoTrust Code Signing CA - G2; OU=www.digicert.com; O=DigiCert Inc; C=US	8D7C499D7FE9EEEC05D9EB42F03EFE402807919803E8E6CD6C1F2BF5EF6A7D8F	7/18/2018	7/18/2028
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=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	8AD8E95B7B83F0BC772BEC75FFE0C51F65C77B63B0821ADC13CDC5AC9C27267	2/7/2012	2/6/2022
CN=A.P. Moller - Maersk Certification Authority; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa (c)11</a> , Class 2 Managed PKI Individual Subscriber CA; O=A.P. Moller - Maersk A/S; C=DK	8AA77BB7ADA3B50AFF1DDD9012C5D73B0D9F8722BEDFCEE0B1DC0ACC80DD1E0E	5/3/2011	5/2/2021
CN=ARINC Public CA - G2; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa(c)10">https://www.verisign.com/rpa (c)10</a> , 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=Optioncare CA; OU=Orion Health Direct Secure Messaging; O=Optioncare; C=US	89CFBC8FBFF7FE026B6CF2EA688419BDE8BBC1FB451329C865D6C6CBCF6BD097	3/1/2016	3/1/2026
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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	87C0BAE275BF11F25AE3290B3E810D97E8297F276C576CDA09AEB5FAEFC4CD22	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=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=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=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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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=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=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 <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa (c)11</a> , 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=CDC Secure Data Network CA G2; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa(c)10">https://www.verisign.com/rpa (c)10</a> , 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 <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa (c)11</a> , 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=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=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=GREEN SHIELD CANADA CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=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=BHP Billiton Group Operations Pty Ltd Secure Email CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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
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=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=DigiCert Assured ID CA G3; O=DigiCert Inc; C=US	634FDF26C994E76A2918D9EFC4CAB9C6FCB344EF642A79C89192BCDA0ED52F4C	8/1/2013	8/1/2028
CN=Postecom CS5; OU=Servizi di Certificazione; O=Postecom S.p.A.; C=IT	61A01EA7E8D8016CCEF92FF13E3DBE082E0779C4CB64BF60C316258D6210F5C	4/26/2016	4/26/2023
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=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
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 Governmental Direct CA; OU=www.digicert.com; O=DigiCert Inc; C=US	5F665CBACC1E37171EA83EA85C570F9861CAF77BAC8886ABC4BB19B3698C094A	9/25/2015	9/25/2025
CN=Abbott Laboratories Secure Code Signing CA; O=Abbott Laboratories Inc.; C=US	5F1A82C09CBAE239D4E3F0704C970755547E53E3CF290F9479FE7E98665FEF0F	6/7/2016	6/7/2026



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=DigiCert High Assurance CA-3; OU=www.digicert.com; O=DigiCert Inc; C=US	57D8D5B832616B7823466A0C372770D16A5DCF246581F0F58373E51C7E1E5316	4/3/2007	4/3/2022
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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=DigiCert SHA2 Assured ID Code Signing CA; OU=www.digicert.com; O=DigiCert Inc; C=US	51044706BD237B91B89B781337E6D62656C69F0FCFFBE8E43741367948127862	10/22/2013	10/22/2028
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	4F5C36419568CB1E7084FB82DACDD1015ADB1D57B5C3E3F17F7F7CA092977432	6/19/2012	6/18/2022
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=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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=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=Plex Devices High Assurance CA; O=Plex, Inc.; C=US	48A7C9C5A36734FC9E204D63CE6BBBCD9E21C1978604760CD8D30D6F4C67B67C	1/14/2015	1/14/2025
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=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=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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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 Assured ID Code Signing CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	3C8B0D5C2ADF2F7090A9B8FF452A4141833DEAA05B5F44E9513DB94BFDF1D6BD	2/11/2011	2/10/2026
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=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=DigiCert EV Code Signing CA; OU=www.digicert.com; O=DigiCert Inc; C=US	376377FD1FAF4B8A5B1472647A70B941039A62D74CFE99447E48616F8D63A978	4/18/2012	4/18/2027
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=MobileMD Direct Intermediate CA; OU=MobileMD; O=MobileMD Health Services; C=US	33CF1F5C9396D7EE9E8283B2E76F400E50450575EB15AD02C956C1C5575B184D	10/21/2014	10/21/2024
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=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	30C955BBF62B0E73573DDD9564A51235ED40B3B5BBDD5E9B5561D64F96AD65D6	5/5/2016	5/4/2026
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11, Class 2 Managed PKI Individual Subscriber CA; O=The ServiceMaster Company; C=US	2E26D155C1B812404C41E7360CF1D93D4664AE267274F64B8114BBE7981E83B2	8/2/2011	8/1/2021
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=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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Blue Cross Blue Shield of Florida; C=US	2B6B476D7B6F01188226DC5A735AB94427B7000D31FFF9678E9E704A8BF4BB2	3/1/2011	2/28/2021
CN=DigiCert EV Code Signing CA (SHA2) G3; OU=www.digicert.com; O=DigiCert Inc; C=US	2B0A972DC0DAE218E9477396D3D82DEB82DE118867DD19E1D2FFF958CBB6DA9	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



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
/C=US/O=Symantec Corporation/CN=Symantec SAS Code Signing CA	279A055E2C41A9105FDFD26343229D0D38125872455C43344DDEBCAE5A0BF736	3/6/2014	5/20/2022
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	26661F230442332E5F8F109C05A3FAA3EA339C29D22B07B8D1A048C693FA1FOC	9/3/2015	9/2/2025
CN=CrossCert Class 2 CA - G3; OU=Symantec Trust Network; O=KECA, Inc.; C=KR	25A0B8C9773E4460E19971EF781BE81BDB7704ED5E486B267866A3AB6C2C0D44	6/4/2015	6/3/2025
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=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=Huntsville Hospital System CA; OU=Orion Health Direct Secure Messaging; O=Huntsville Hospital System; C=US	20E3E88747A8D88E11A527521032DC8CAE92BC33B45C93EEE04F624A70DC920A	3/5/2014	3/5/2024
CN=Symantec Class 3 SHA256 Code Signing CA - G2; OU=Symantec Trust Network; O=Symantec Corporation; C=US	2042E38FC57388F1DB3222C7AB5BE11C6EDB7E454BF45487AE44FF2D6A2B7645	7/22/2014	7/21/2024
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=DigiCert Grid Trust CA; OU=www.digicert.com; O=DigiCert Grid; C=US	1E0A3AB993157717281D42ABF801EB64DEED500E4168CA706D6A71D8103C73A2	12/7/2011	12/7/2026
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=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=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=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 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



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=DigiCert Accredited Direct Med CA; OU=www.digicert.com; O=DigiCert Inc; C=US	0E78434EC8AD6613562C8390D8B3306FC6087E0593C7D5AC2FAF9AD263879745	8/6/2013	8/6/2023
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	0B5F13974CEB577E1CC39DFFADF616FCF0C17ECA6747201AEB46AF3BC20CE4F4	10/10/2013	10/9/2023
CN=BHP Billiton Group Operations Pty Ltd Secure Email CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=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=CertiSur Class 2 CA - G3; OU=Symantec Trust Network; O=CertiSur S.A.	041E70B7DDDD0F2F90F285C4C71E0E20533312A10773794A21B5791EC8755958	8/18/2015	8/17/2025
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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
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 High Assurance Code Signing CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	007D2C8B15786232BAC0EAA31F60AAE06DC572921BAD0D46C77107D8C2DCA4B3	2/11/2011	2/10/2026
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=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Admin Intermediate Certificate Authority	F71B3E31B6CE7D735E781DB156CDD77F993A3B7A14195058D9A6D15C0A97C3B3	3/3/2011	3/2/2021
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Registration Authority Intermediate CA	CFA1F19379D9F0A3FC8D44064966B69712760AE47591D8651B7633175469A8A7	3/3/2011	3/2/2021
/C=US/O=Google Trust Services/CN=GTS CA 1D3	92C0FB93FB7CA0A1A33C193F1B1CD1CABD2E40DEBA40278A0BB103F75B8640C7	5/29/2018	5/28/2021
/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



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	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=CN/O=TrustAsia Technologies, Inc./OU=www.trustasia.com/CN=TrustAsia Secure Email CA	047217772051D292238F3355F5C5435E9B84364CCD143FC49F9C31CD605439F0	4/27/2018	4/27/2028
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G3	074541ECDF88ED992ED5ADE3ECDDEF27A26BA1B44480A195COA8DADAE2521D8E	11/5/2013	5/20/2022
/C=US/O=GeoTrust Inc./CN=RapidSSL CA - G2	0DCDC07ECABBFE38A4606BA663987CDB3BD9817FC67D1DD0CF094AC8CA2787D	6/5/2013	5/20/2022
/C=JP/O=NTT DOCOMO, INC./OU=GeoRoot Certification Authority/CN=DKHS Device CA	123465EEC4092F8CF7ABFE92B8C701AC09EA79A498F1D3F6A02C1714F39A8423	8/12/2009	5/19/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 384 bit SSL CA	14214583E5F49CE2DB88B93CFE3F7D81B678C86AFBCA9240BAA4B9E4CE90BF2C	12/20/2012	12/19/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Assured ID Client CA G3	14FAFCA84BDB8B0EC32719272BE730FE18D6FC29301C5CF789400596EC429AFE	9/23/2019	9/23/2034
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Extended Validation Code Signing CA	169DAF83C0870AB8927C99D3FC0774DDF34FBA28B02B881DCD0B633B6D71B2BA	6/7/2012	6/6/2022
/C=US/O=thawte, Inc./CN=thawte EV SSL CA - G3	1A99019F9D412A64454749EDAA8E7DC46673D644DF3CE15CC655735EA0DF86FE	10/31/2013	10/30/2023
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G4	211DDF5059229B3577760D623D5148DB92F2D0526EA5303E7EEA0300D9FAFF3F	9/8/2014	5/20/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	2E2861289B5CCEDECAE4C31BF262E0FB0C29B6C1530573442731CA65D821E901	5/12/2015	5/11/2025
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL	2E7E65BB1A013DAF0BDF6938502E43E38217FE00D76CA2F99F7AA9E298F48534	8/6/2013	5/20/2022
/C=US/O=thawte, Inc./CN=thawte EV SSL CA - G2	37F6BD9BEE0C74F608DD474B56A72F8183077DFC2662AF79BFE3D4FABCFOB1C4	10/31/2013	10/30/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	3B6D701331A8CB809443E42A732BAD675F225B15CC439ACF26A09587C885ECFD	5/12/2015	5/11/2025
/C=CN/O=TrustAsia Technologies, Inc./OU=www.trustasia.com/CN=TrustAsia Secure Enterprise Email CA	3D774B65EE95FD6EFD1C8732B57E607C9BEE423C36E46F6E1CC8CA1F0AE62E23	4/27/2018	4/27/2028
/C=US/O=thawte, Inc./CN=thawte SHA256 SSL CA	3F3AF9C9CC2C7599EF8F6DD7CA516CFC1797D7D12002254F3BFD0D4D0FE9DE86	5/23/2013	5/22/2023
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G3	51CF0FFFC3253FC013AF786F95B190109F8C87F34DFD1CEC44C45888789F5355	6/11/2014	5/20/2022
/C=US/O=thawte, Inc./OU=Domain Validated SSL/CN=thawte DV SSL SHA256 CA	537C5C8072363E147C84D21D0D2248B6B99A9A8A43311659835EC33926DA2860	6/10/2014	6/9/2024



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	564DBC6A76550FD2D4F4BAC6448A1157B33CBD8E0B3FD76D72107540964A85B5	10/31/2013	10/30/2023
/C=JP/O=NTT DOCOMO, INC./OU=GeoRoot Certification Authority/CN=DKHS Device CA - G2	56CBB0FFC414E88822A50E9F42D46820381D8C2AAEEF56E0566817ED30F27A27	2/10/2015	5/19/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 SHA256 Code Signing CA	582DC1D97A790EF04FE2567B1EC88C26B03BF6E99937CAE6A0B50397AD20BBF8	12/10/2013	12/9/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	59F8CB7D7E9E13CB778FF62198EBE05551B515A58BBBA2EF19C33C760C823916	10/31/2013	10/30/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit Extended Validation CA	5AD4183B54F0E2762DA8D910E1E7E9F2AB2F1BC4CE6A638F0DBBF337EB4A139F	12/20/2012	12/19/2022
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G5	5B2AE8ABF5E7E563BBC34C97A22554E82393D7ACC09C1765E504AE08C157B5AC	9/9/2014	9/8/2024
/C=US/O=GeoTrust, Inc./CN=GeoTrust True Credentials CA 3	5D74ED61D0B311E981BBCF0F419A35FA9FA1EC70FF1AEB742D73BCFEBA06CFFF	8/22/2012	5/21/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Managed PKI Administrator CA - G4	5D81D0AA3476F48A5A675D6D3E6AB766BDC8AA167A1A94D79DF91B4251082FA4	1/6/2015	1/5/2025
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit EV CA - G2	663636C03FD0B5B171F2B04407C3DF767B349C8A990D87CE485898166E2B5120	5/12/2015	5/11/2025
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 EV SSL CA - G2	6C66B76E68D6C79FAFE5C94E9B7D0CF753C715CC85387E11323B7935F861C187	10/31/2013	10/30/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Organizational CA - G4	6F6B2D4A309A156C61977FBCCF7D2AC9F59623FFCCEAC3E4EE5A83A18D895275	5/6/2014	5/5/2024
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA - G2	6FF6F63F6A0D3D63446CDAA523D26273B126C02F922E05D73C4748EB89B86393	9/8/2014	5/20/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	74EB307A78AC7E8570CC1BAE1C51102A6053C96F3332D703285A743BCBD35D9E	5/12/2015	5/11/2025
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 384 bit Extended Validation CA	77FE876A1C476349F5EB9AE9BF53F7814A0AE411562667C58B7ED27869C54091	12/20/2012	12/19/2022
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL SHA256 CA	784ACA1063BE4700B3A62F45C2F93B7EEF8BF230FB869610E864FC4B3A23D09F	6/10/2014	6/9/2024
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL - G2	78DC9CA5F4C2913F3FB74AC52DFFFCDD2300DA5A772FC2B84C53A2E74437EDD20	9/8/2014	5/20/2022
/C=US/O=thawte, Inc./CN=thawte Extended Validation SHA256 SSL CA	7920B8E18D2FC12D81C2FAB90A63B1B52AB329CE7CD1CB7CA094CDF9D600F492	4/9/2013	4/8/2023
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G4	8BC1B9D7DEFCCA1CCD09BACDA88F27762092F1ED4A34AE5E4602BB9CC915C506	8/29/2014	5/20/2022
/C=NL/O=Intermediate Certificate/OU=Domain Validated SSL/CN=Intermediate Certificate DV SSL CA	8C2745352289E994B3EA349445B1CF6418E51740E1614F8B5667DAD2990AAEFB	6/1/2012	5/21/2022
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G2	90AF11E577C72C940B40EC2F3D50507310091EE6196C9C16B228882264A4D808	8/27/2012	5/20/2022
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA - G2	92EF2F5B553570607DC29C8010E7ABC16283FE355F955A248254290A260A9EBB	6/10/2014	6/9/2024
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G4	95B09D02122FA8AE6235780F6EA6503E767AC021A0874FE831CE803A50EA8FD7	10/31/2013	10/30/2023
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Assured ID Client CA G2	9E12D6E13DDD53A890A2B3A37423AE5E457731A7B34A153992F1EF1F5489A45E	9/23/2019	9/23/2034
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 EV SSL CA - G3	9E6BC5F9ECC52460E8EDC02C644D1BE1CB9F2316F41DAF3B616A0B2058294B31	10/31/2013	10/30/2023
/C=US/O=thawte, Inc./OU=Domain Validated SSL/CN=thawte DV SSL CA - G2	9F2511A23E70D95FB62798508A676CC38964100936A6E6D3CAE77154C0290F02	6/10/2014	6/9/2024
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Client CA G2	A449DBAB6D4C035FAAFD9D045891FE98ABD73D286268A8A83F854145551692E3	9/23/2019	9/23/2034



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Shared Public Organization CA - SHA1	A829444AD2FB48079A595FBB88C4E658EE2089A5E129B89AAACCE851198FFD7	7/11/2013	7/10/2023
/C=IT/O=Telecom Italia Trust Technologies S.r.l./OU=Digital Identity and Security/CN=Trust Technologies Global Client CA	AA6A2380A7E8254DAD4620AE0895DE74047F33F5268758DCF27C4D280B384A50	8/24/2017	5/10/2025
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA	ADEBF83FD3D3F9546BB77FAAB516DD9337CCF91E1198F74337769EC68E6E826E	12/20/2012	12/19/2022
/C=US/O=thawte, Inc./CN=thawte SSL CA - G2	B7A8AF2A4A43F0A86B15604DE6461209C9CD76894D8B0748BC99D9A797013BB0	10/31/2013	10/30/2023
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Client CA G3	BA361260FF1D46031686305E082DE836D4A320466E0DE9E013F00CEDDD62317	9/23/2019	9/23/2034
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA - G3	BC3F03A436240EDBA5F83714F6F77E34B37F9B1F0C08C1E558D981E279E8209	8/29/2014	5/20/2022
/C=US/O=GeoTrust Inc./CN=GeoTrust Extended Validation SHA256 SSL CA	BC9E223CC42275CC034190DF2D0179B55B732D5AC531137A7B522DCFE04A0592	4/9/2013	4/8/2023
/C=US/O=Wells Fargo/OU=Symantec Trust Network/CN=Wells Fargo Certificate Authority WS1	C21087416BBF983B9FFE40F5D56EE0FFD94EB1E666B04A532ADE482EC201D67C	8/25/2015	8/24/2025
/C=US/O=thawte, Inc./CN=thawte SHA256 Code Signing CA	C4D18E0A58E4EFFD17ED77C840B613EF15F551076EA92C2B77F6609A6C2557C7	12/10/2013	12/9/2023
/C=US/O=GeoTrust Inc./CN=GeoTrust Extended Validation SSL CA - G2	C7B57A02F937AE0BE3E21027030592C9D47A70D7013EB3AA94DBC3B7B5AB0662	8/23/2012	8/22/2022
/C=NL/O=Intermediate Certificate/OU=Domain Validated SSL/CN=Intermediate Certificate DV SSL CA - G2	D876A081FB3827BA22A4087DF675126FF8A96AAB90364BC61F62CE8E9507AA93	9/8/2014	5/20/2022
/C=US/O=GeoTrust Inc./CN=GeoTrust SHA256 SSL CA	D9E0C64AB27A64D79CCCF42A34EC75A251A7E543353C19E984A70EB2F546CDDF	5/23/2013	5/22/2023
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G2	DED31CBCEC5F99D38E86ECC4D76945DF40F2E547C94E4B0124094875AF6A558	6/4/2013	5/20/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Oracle Corporation/OU=Symantec Trust Network/CN=Oracle SSL CA - G2	E4AF2FAE41187D58F209B01B1D8753C2DCCB3F601CE86273E37E8738C2A5CCB5	1/6/2015	1/5/2025
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA	E6683E88315CD1CB403C0CEA490F7C4B4C82C91CD485037489AADBAA90839F61	12/11/2013	5/20/2022
/C=US/O=Symantec Corporation/CN=Symantec SAS EV Code Signing CA	E865F583A928CCB6A7286B94E7920EE1F4998C030B438689E9583BCCD6AC5261	1/12/2016	1/11/2026
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	EAE72EB454BF6C3977EBD289E970B2F5282949190093D0D26F98D0F0D6A9CF17	10/31/2013	10/30/2023
/C=US/O=thawte, Inc./CN=thawte EV Code Signing CA	F376F6E5BF660F6BEDB768DCD1303EADD4A96F2ED7A97717E878FAE6BB5959FA	3/1/2016	2/28/2026
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Extended Validation Code Signing CA - G2	F726C8891336B1B97C86F596F1267FC180152122573E76D5145A7C64E2CFF7	3/4/2014	3/3/2024
/C=US/O=thawte, Inc./CN=thawte SHA256 Code Signing CA - G2	F76F0D8AD330ACFD4C5BD05A58A1CF155DE00BE2C98F4E7899BE24E80A2ABCBF	7/22/2014	7/21/2024
/C=US/O=Government of the District of Columbia/OU=Office of the Chief Technology Officer/CN=DC Government SHA2 Assured ID Intermediate CA	FB1147E7AB97A29BB9C1140ABF3DE831F4C5F60D11B90FEC999A0816375D8457	7/13/2017	7/13/2027
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Registration Authority Intermediate CA	5B690E1CD2BC0016E4DB2AABAB503745E41F86B2448F2EC06D29F24999DEBCA2	6/7/2011	6/6/2021
/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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Organizational CA - G2	F5068C4293A26A0E420D02AE4BEF27008377E3E7ECD8E5CF194428162E3C40F4	3/16/2011	3/15/2021
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Admin Intermediate Certificate Authority	062A76E5196E4C6220ACA7D32AA419761101374C11866C3627D5F8A055ECE2CE	6/7/2011	6/6/2021
/DC=COM/DC=ABB/O=ABB/CN=ABB Intermediate CA 5	2534EC1BD74C3C1B7661A0E7CC28F1BDF2A82CCD3943EEAADCD8FED95055EAD1	11/15/2016	11/15/2023
/DC=COM/DC=ABB/O=ABB/CN=ABB ECC Intermediate CA 1	64017D78B5F0C04C419735D6A4A6D52EC1D20115243B0D7C74507E257FFA4A40	9/7/2016	9/7/2023
/C=US/O=DigiCert, Inc./CN=DigiCert PKI Platform C2 Shared SMIME Individual Subscriber CA	55F3A359F0A26D72FF244C2EE396FD51BC2400EA250C91EFC355E2F8103C9939	6/4/2019	6/4/2029
/C=US/O=DigiCert, Inc./CN=DigiCert PKI Platform Class 3 Shared SMIME Organization CA	7F755DC2B9EE99EB02D71CB1805059AAABB5EB3E8558DCA8C09A1D0DE258D767	5/29/2019	5/29/2029
/C=US/O=Avaya Inc/OU=Avaya IT/OU=Class 2 DigiCert PKI Platform Individual Subscriber CA/CN=Avaya Client Services Users CA 2	1FFA0D1F55CE4A0507E8C38E8B557B88CBDD690D903D996B1F7850D81D6A4A93	11/26/2019	11/26/2029
/C=JP/O=Mitsubishi Electric Information Network Corporation/CN=Enterprise Premium Public CA	4A45559AD89684BB439FCD2CC4C5EC0F92EE0692CD6B9763957DE31A2F467CCA	4/29/2020	4/29/2030
/C=JP/O=Mitsubishi Electric Information Network Corporation/CN=Enterprise Premium Public CA	DF025DCE2A36411BE5EB6590C161EFD2652EC2B3F70D5C651F90D023C46F3A00	6/9/2020	6/9/2030
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Federated Trust CA	E5BBDDCAD572EC9D2DD96E0E5EBF049A9181F070F1E33CC1635AD8EC487D2177	11/18/2011	11/18/2023
/C=US/O=GeoTrust, Inc./OU=For Internal Use Only/CN=RapidSSL Enterprise CA	87AA71AF032E36BD69DAF4014FCAD8F2733AA00DEAB959335AE3866E4B6D3A1D	3/8/2011	3/5/2021
/C=US/O=Oracle Corporation/OU=VeriSign Trust Network/OU=Class 3 MPKI Secure Server CA/CN=Oracle SSL CA	C76F70980598C66A8E327E17B495A2276265C4B9A3575EFA1D550502A823D591	10/12/2010	10/11/2020
/C=US/O=GeoTrust Inc./OU=GeoTrust Authentication Services/CN=GeoTrust True Identity CA 2	FF1D35ED464063D6031C71E414262CC2310E8C547AB7F7CF2955C9E0349E533F	1/28/2011	1/25/2021



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Admin Intermediate Certificate Authority	6D0BD6E1AC0EC398EE8537906D98F378FC7AB49C1E296AF233374FA5A271DB34	6/7/2011	6/6/2021
/C=US/O=Oracle Corporation/OU=VeriSign Trust Network/OU=Class 3 MPKI Secure Server CA/CN=Oracle SSL CA	7F6889FFE8B02045E2CAC99A2F2EE4F4C2EED24934B6521872D34BF812671C4B	10/12/2010	10/11/2020
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Organizational CA - G2	05BDD9A7C6706D39D6DB1A580AAFF67D4673027B6CF01FD15367D8ED84A890F0	3/16/2011	3/15/2021
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/OU=Insattningsgaranti Service CA/CN=Symantec Class 3 Organizational CA - G3	CF6F24FFE48F8408A75CFADF2B65F8A4E4172F3B7C24C41B5B7481D24018197C	6/21/2011	6/20/2021
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Registration Authority Intermediate CA	83C935F34C50B7665409404AFE5DFA07ADCBC5C7B52B2BEF0AC6E993C00545D76	6/7/2011	6/6/2021
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Organizational CA - G2	DDE4BEBF262C9D8DF5CB54FE4F5995191EAF58ADCB92FE5AED3128AC0D1916C7	3/16/2011	3/15/2021
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA	8FDA7A8813546F9A7CB065CD32D3650D5B56A2B7F942B9499AEB42A86A3E9D56	4/11/2011	4/8/2021
CN=DigiCert Universal Issuing CA; OU=www.digicert.com; O=DigiCert, Inc; C=US	622A42A28CAD83D962771D9D09BD307877D4AB513B4FE0CF2E5851E79FFA6FE	12/8/2017	12/8/2027
CN=DigiCert Global G3 Code Signing ECC P256 SHA384 2021 CA1; O=DigiCert, Inc.; C=US	DDF122E12D2BE604BEEF8A4A55C5EB802E19D5B8D8E1AF994580BD92F4A179E3	7/28/2021	7/27/2036
CN=DigiCert Trusted G4 Code Signing RSA4096 SHA256 2021 CA1; O=DigiCert, Inc.; C=US	47818F36F1DBA7D4F2A29360DB710E9BD75E3B13613618AAD45C01A10626523A	7/28/2021	7/27/2036



Timestamping CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Timestamp RSA SHA-1 2020 CA1; O=DigiCert, Inc.; C=US	B9B68325C0D7A2C036E1F2D8455C71F8076DB12A9C24DEF15748FEAD3349544B	12/17/2020	11/9/2031
CN=Symantec SHA256 TimeStamping CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	F3516DDCC8AFC808788BD8B0E840BDA2B5E23C6244252CA3000BB6C87170402A	1/12/2016	1/11/2031
CN=DigiCert SHA2 Assured ID Timestamping CA; OU=www.digicert.com; O=DigiCert Inc; C=US	CA8D0F4736454AECBEC5DEEC80998C9EBF41D06C728F3C76CCA24151BC62D463	1/7/2016	1/7/2031
/C=US/O=Symantec Corporation/CN=Symantec Time Stamping Services CA - G2	0625FEE1A80D7B897A9712249C2F55FF391D6661DBD8B87F9BE6F252D88CED95	12/21/2012	12/30/2020
/C=US/O=Symantec Corporation/CN=Symantec Time Stamping Services CA - G2	83C1EA9E9EFCA283B840E167F9EA79C4E32ACD33834F59D138FCDAB9D8806B20	10/18/2012	5/20/2022
/C=US/O=GeoTrust Inc/OU=GeoTrust TimeStamping CA/CN=GeoTrust TimeStamping CA I	D36027A85FE1EDCBA4F1BA92C3C8B37864E862D2B4A02B8FF643F582609F6A08	3/7/2006	3/7/2021
/C=US/O=GeoTrust Inc/OU=GeoTrust TimeStamping CA/CN=GeoTrust TimeStamping CA I	321DF681FB13682259A572BE65FDDB8E6C9A2CB21F945683D3B704517BC192E4	3/7/2006	3/7/2021



## ATTACHMENT C - LIST OF CAs IN SCOPE FOR EXTENDED VALIDATION CODE SIGNING

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
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=Symantec Class 1 Public Primary Certification Authority - G6; OU=Symantec Trust Network; O=Symantec Corporation; C=US	9D190B2E314566685BE8A889E27AA8C7D7AE1D8AADD8A3C1ECF9D24863CD34B9	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	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	7D05EBB682339F8C9451EE094EEBF8F7953A114EDB2F44949452FAB7D2FC185	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
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



Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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
CN=Symantec Web PKI RSA Root - G1; OU=Symantec Trust Network; O=Symantec Corporation; C=US	F6BB5B7985A8736594C14679FA31603814502AAEB5F4282A69985DC84A450777	9/21/2017	9/20/2042
CN=Cybertrust Global Root; O=Cybertrust, Inc	802447EE521CC666CDB7BBAE93A385E55F200D76A3D1356A85445AC4CDBED12	1/8/2014	12/15/2030
CN=Symantec Web PKI ECC Root - G1; OU=Symantec Trust Network; O=Symantec Corporation; C=US	92BB72F15EB75DE467C84B438181034BD4E9A016EC26434BEE3C9BBAD8CD8AF0	9/21/2017	9/20/2042
CN=DigiCert High Assurance EV Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	071B8B4B13AD7B2BE09FDD7FBDF3482460838098C21519B83B3150F8E919832D	8/13/2018	11/4/2022



Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 2007 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G4	69DDD7EA90BB57C93E135DC85EA6FCD5480B603239BDC454FC758B2A26CF7F79	11/5/2007	1/18/2038
/C=ZA/ST=Western Cape/L=Durbanville/O=Thawte/OU=Thawte Certification/CN=Thawte Timestamping CA	6B6C1E01F590F5AFC5FCF85CD0B9396884048659FC2C6D1170D68B045216C3FD	1/1/1997	12/31/2020
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 2006 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G5	9ACFAB7E43C8D880D06B262A94DEEEE4B4659989C3D0CAF19BAF6405E41AB7DF	11/8/2006	7/16/2036
/C=US/O=GeoTrust Inc./CN=GeoTrust Universal CA 2	A0234F3BC8527CA5628EEC81AD5D69895DA5680DC91D1CB8477F33F878B95B0B	3/4/2004	3/4/2029
/C=US/O=GeoTrust Inc./CN=GeoTrust Universal CA	A0459B9F63B22559F5FA5D4C6DB3F9F72FF19342033578F073BF1D1B46CBB912	3/4/2004	3/4/2029
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 1999 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G3	EB04CF5EB1F39AFA762F2BB120F296CBA520C1B97DB1589565B81CB9A17B7244	10/1/1999	7/16/2036



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
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Transition RSA Root	0D88900DBB68C6CA5471F653FCACD407EBD7B1519046F9E0B8CED3C274FD11A1	11/6/2017	11/5/2022
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=DigiCert Transition Root G3	0F57B96FA7B31247EC39CB307D38CA2BF3B29F54AFD50A351D18533529517B46	12/8/2017	12/7/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G2	2D4FAD3455AB61397401ABBB518922F84336B67E02FC8D2DB283825C4AB981BB	11/6/2017	11/5/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G3	53A5E32ACC5714ED20C7778C655D1EE97EC07156074C8B016E2CFC73E9D2712B	11/6/2017	11/5/2022
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=thawte Primary G3 Transition Root	85743AEA6A97C13445E0824C2E1FE502B97ADD124A97EF5120FE07F55812FC33	12/8/2017	12/7/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G2	AADADD5A879D2EB8C41A89597291292709D42052F5B6399541C694C3B7353CD1	4/3/2018	4/2/2028
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 2006 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G5	D9BC973F88909696DA10833197944CA58AC4A88847779C9133374267100EEC58	11/8/2006	11/7/2021
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Transition ECC Root	DB98194E55B936D26E6CB3F460A262EB6CA66337E7BFF17A0BFC083251F63626	11/6/2017	11/5/2022
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=thawte Primary Transition Root	DBA1097710F3C629943C23DC7503AC82B9142825EF049F1C26538DB36B480549	12/8/2017	12/7/2022



Cross-Signed Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=GeoTrust Primary Transition Root	F54F6CED56CF682B570A6CAEC313E9482760DE12E8F928AE30452C4C66AC761A	12/8/2017	12/7/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Trusted G4 Code Signing RSA4096 SHA384 2021 CA1; O=DigiCert, Inc.; C=US	46011EDE1C147EB2BC731A539B7C047B7EE93E48B9D3C3BA710CE132BBDFAC6B	4/29/2021	4/28/2036
CN=DigiCert Global G3 Code Signing ECC SHA384 2021 CA1; O=DigiCert, Inc.; C=US	35769D41EF436A4D63DDB00AB11C6CE968989FCDD829E7018F5DB90AC4BD3CD0	4/29/2021	4/28/2036
CN=DigiCert Global Root G2; OU=www.digicert.com; O=DigiCert Inc; C=US	0BA8C0D459B76ABC0825294F565E24F4F169D4A4819D0692D371522D297724B8	3/4/2021	3/3/2031
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 One AATL CA; O=DigiCert Inc.; C=US	419507E46D6520ECEC453A0C2B5292A099431C35E8967A6D0EE573CAAB116C71	4/29/2021	4/28/2031
CN=.NET Foundation Projects Code Signing CA2; O=.NET Foundation; C=US	D60D2D02F83920E89C0063AECA7C4630642C80EB824FFE43D9A11C250E5F51B9	7/15/2021	7/14/2031
/C=US/O=DigiCert, Inc./CN=DigiCert G5 CS ECC SHA384 2021 CA1	EDAEC94C3C0F7C3239312EAAF7B76D499410A55D0E008CB6A64779DAD3A1998	2/11/2021	2/10/2036
/C=US/O=DigiCert, Inc./CN=DigiCert G5 CS RSA4096 SHA384 2021 CA1	26A9454579B138E765087276AF42C1C206C8B2ED0DE6639D1BA992626A797A91	2/11/2021	2/10/2036
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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
/C=US/O=Symantec Corporation/CN=Symantec SHA1 SAS Code Signing CA	F82CF9003A28693F430C7E939581097BA097C93AEE510A105D7822324F364C9A	10/8/2015	5/20/2022
CN=OFAC VPN CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=WoSign EV Code Signing Pro CA; O=WoSign CA Limited; C=CN	F6DFDED61FF88EF10B9E6DCFBCE0F1615E05866CEBAFCD6D48AEE80132C70347	5/23/2017	5/23/2027
CN=DigiCert SHA1 Code Signing ICA VRSN PCA3-G1; OU=www.digicert.com; O=DigiCert, Inc.; C=US	F6A54A76C4A0B529ADC8D457B503A7B3ADF8B0AEAAE8EE72D0FEFD2372E8199B	5/9/2019	8/1/2028
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=DigiCert Federated ID L4 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	EFB2A3F37273D3589047919825EA5337E9B938A8C178B61C18C2B4270B9665AC	10/30/2012	10/30/2022
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	EB84FC0B403D9B689297A5D83EA186838E3B77BC618EFDA162A75B7FEA666C1	1/8/2014	1/8/2023
CN=MHIN Direct CA; OU=www.mhin.com; O=Michiana Health Information Network; C=US	EAEFEB08D568E7F6CF6D892CAB6A22E14F20C6F10E3A418CFB42B12309333367	1/8/2014	1/8/2024



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=MSC Trustgate.com Class 2 CA - G2; OU=Symantec Trust Network; O=MSC Trustgate.com Sdn.; C=MY	EACB06CBB7B251C6BF464DB4B670DCDC9254C9AF3938C110CEE74D00EA0A263	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=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=OFAC VPN CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=MRO Direct Intermediate CA; OU=MRO HIE Solutions; O=MRO Corporation; C=US	E25DE970AA8B85CDF55417897F65DE64C63A55D61EE9E4B830261DCFBFFFB4	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=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=Abbott Laboratories Secure Authentication CA; O=Abbott Laboratories Inc.; C=US	DB99A4F284CCF10B26DE7B7A5D651725B857CBC871EBB33028D67B55510EFC9D	8/23/2016	8/23/2026



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Rush Health CA; OU=Orion Health Direct Secure Messaging; O=Rush Health; C=US	DB12B1D3F8CC52FFFF4874F0A8B85E9FB6A2050861B1B1C61481A743AC0D33D5A	4/23/2014	4/23/2024
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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)10, Class 2 Managed PKI Individual Subscriber CA; O=Bridgewater Associates, LP.; C=US	D8E79EBED997B764E6D0DF624F2DBB4EFF2A1B6049C6F1A1A1E88263C43DB221	10/12/2010	10/11/2020
CN=Symantec Japan Class 1 CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	D6A3574E4C2AA2D15397D5A9BEFCF8380910CC0148BAB86A0B9FF40E2659BCE8	4/15/2014	4/14/2024
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=Brown Brothers Harriman & Co. CA - G2; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Brown Brothers Harriman & Co.; C=US	CFBF988B04B41842824B287999092EB3AB6CD8DFCEB49BD3D5D48345A5B4818B	2/8/2011	2/7/2021



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	CF47B370761E9CA40096CDBD0C34B61429957E410780339A0D005D73E371204E	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 <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa(c)11</a> , Class 2 Managed PKI Individual Subscriber CA; O=A.P. Moller - Maersk A/S; C=DK	CDC453969304BEE6A58D9BABC0AAC4C4CE2156A1C172A2585E546079144E4E58	5/3/2011	5/2/2021
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=Symantec Class 2 Shared Intermediate Certificate Authority; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa(c)11</a> , 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
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Autoridad Certificante CertiSur; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=CertiSur S.A.; C=AR	C856F854F6FC94EC4D496E6CDAE6C66AA2D8CAFDFB87C928B9898E327B962A3F	4/28/2016	4/27/2021
CN=DigiCert EV Code Signing CA (SHA2); OU=www.digicert.com; O=DigiCert Inc; C=US	C7460B0EDDA1B44C8E2164B234EBECC3962A6A37A936B74A6E7D46682938F084	4/18/2012	4/18/2027
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=DigiCert SHA2 High Assurance Code Signing CA; OU=www.digicert.com; O=DigiCert Inc; C=US	C51B83A0DE49A201A5FBE947032C04702F8CA7C2D02ADF28B73D42C8ACD1C362	10/22/2013	10/22/2028
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
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=Symantec Class 3 Extended Validation Code Signing CA - G3; OU=Symantec Trust Network; O=Symantec Corporation; C=US	C267DC115D57DD0226279B346DF1953DD2C07A85CB48A0D899FD5724F5AF681F	5/12/2016	5/11/2026
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=Indian Health Service-RPMS DIRECT Messaging CA; OU=directihs.net; O=Indian Health Service; C=US	C07E9037CB81012D3046613285C14B63A0284964A4F5A821FC3B18ECDEBA0A66	4/4/2014	4/4/2024



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=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 <a href="https://www.verisign.com/rpa(c)10,Class2ManagedPKIIndividualSubscriberCA">https://www.verisign.com/rpa(c)10, Class 2 Managed PKI Individual Subscriber CA</a> ; 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=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
CN=AAMC Direct Intermediate CA; OU=AAMC Direct Messaging; O=Anne Arundel Medical Center; C=US	BB1C01E884DD0919AB94D5AF5575CD6FEB71E560B2B58735A78B150A10D54BF3	5/28/2015	5/28/2025



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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	B864FF6DE0CB1BEAF6AA5C68DB8769C91F18E1721E22AC3ECD91C0889D77078	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=CompuGroup Medical Certificate Authority; OU=IT; O=Compugroup Medical, Inc; C=US	B604026A3590392ABEFB6B18E8176453656115D2A0060F713E191A9FD076532A	12/8/2015	12/8/2025
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=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=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=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=Cal INDEX CA; OU=Orion Health Direct Secure Messaging; O=California Integrated Data Exchange, Inc.; C=US	A5226F33474B53392665298B48F4E6129824E98BD4D38DF4E31EBBCF14FA33CD	7/12/2016	7/12/2026



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Orion Health Direct Secure Messaging CA; OU=Orion Health Direct Secure Messaging; O=Orion Health Inc.; C=US	A4106DA85F7B34A6D3DE37884D1528916B84F046FFB7D4AAC52117B0C6995F3	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=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=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=INTEGRIS Direct Intermediate CA; OU=INTEGRIS DIRECT Messaging HISP; O=INTEGRIS; C=US	97D276C5FDF2DC94539ABB9E17BC3995730CD51739EAE95B0F67B39E99905F11	11/18/2014	11/18/2024
CN=NCC Group Secure Server CA G3; O=NCC Group; C=US	963056B0D941D9DBE27AC778053D85E43CC79F476AD34CFDD799C27E381840EB	7/30/2014	7/30/2029
CN=DigiCert Secure Server CA; O=DigiCert Inc; C=US	94D4ECE2ED9A5457B969A13B260489E9A5FE4790A041F27A3EB4126C84418EF9	3/8/2013	3/8/2023
CN=DigiCert Assured ID CA G2; O=DigiCert Inc; C=US	93C381CB07B353A920C2A78ED6BEBF195C68279DD0527D37F20BDD0D99C330FA	8/1/2013	8/1/2028
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=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=GeoTrust Code Signing CA - G2; OU=www.digicert.com; O=DigiCert Inc; C=US	8D7C499D7FE9EEEC05D9EB42F03EFE402807919803E8E6CD6C1F2BF5EF6A7D8F	7/18/2018	7/18/2028
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=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	8AD8E95B7B83F0BC772BEB75F7FE0C51F65C77B63B0821ADC13CDC5AC9C27267	2/7/2012	2/6/2022
CN=A.P. Moller - Maersk Certification Authority; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa(c)11</a> , Class 2 Managed PKI Individual Subscriber CA; O=A.P. Moller - Maersk A/S; C=DK	8AA77BB7ADA3B50AFF1DDD9012C5D73B0D9F8722BEDFCEE0B1DC0ACC80DD1E0E	5/3/2011	5/2/2021
CN=ARINC Public CA - G2; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa(c)10">https://www.verisign.com/rpa(c)10</a> , 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=Optioncare CA; OU=Orion Health Direct Secure Messaging; O=Optioncare; C=US	89CFBC8FBFF7FE026B6CF2EA688419BDE8BBC1FB451329C865D6C6CBCF6BD097	3/1/2016	3/1/2026
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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	87C0BAE275BF11F25AE3290B3E810D97E8297F276C576CDA09AEB5FAEFC4CD22	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=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=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=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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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=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=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 <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa (c)11</a> , 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=CDC Secure Data Network CA G2; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa(c)10">https://www.verisign.com/rpa (c)10</a> , 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 <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa (c)11</a> , 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=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=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=GREEN SHIELD CANADA CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=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=BHP Billiton Group Operations Pty Ltd Secure Email CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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
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=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=DigiCert Assured ID CA G3; O=DigiCert Inc; C=US	634FDF26C994E76A2918D9EFC4CAB9C6FCB344EF642A79C89192BCDA0ED52F4C	8/1/2013	8/1/2028
CN=Postecom CS5; OU=Servizi di Certificazione; O=Postecom S.p.A.; C=IT	61A01EA7E8D8016CCEF92FF13E3DBE082E0779C4CB64BF60C316258D6210F5C	4/26/2016	4/26/2023
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=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
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 Governmental Direct CA; OU=www.digicert.com; O=DigiCert Inc; C=US	5F665CBACC1E37171EA83EA85C570F9861CAF77BAC8886ABC4BB19B3698C094A	9/25/2015	9/25/2025
CN=Abbott Laboratories Secure Code Signing CA; O=Abbott Laboratories Inc.; C=US	5F1A82C09CBAE239D4E3F0704C970755547E53E3CF290F9479FE7E98665FEF0F	6/7/2016	6/7/2026



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=DigiCert High Assurance CA-3; OU=www.digicert.com; O=DigiCert Inc; C=US	57D8D5B832616B7823466A0C372770D16A5DCF246581F0F58373E51C7E1E5316	4/3/2007	4/3/2022
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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=DigiCert SHA2 Assured ID Code Signing CA; OU=www.digicert.com; O=DigiCert Inc; C=US	51044706BD237B91B89B781337E6D62656C69F0FCFFBE8E43741367948127862	10/22/2013	10/22/2028
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=Symantec Class 2 Individual Signing RSA CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	4E74475D2C33E1DD4732306B79712B5EE6997C2DBDF596CC8BD1362163DAA4F4	1/22/2015	1/20/2035
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 <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa (c)11</a> , 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=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=Plex Devices High Assurance CA; O=Plex, Inc.; C=US	48A7C9C5A36734FC9E204D63CE6BBBCD9E21C1978604760CD8D30D6F4C67B67C	1/14/2015	1/14/2025
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=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=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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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 Assured ID Code Signing CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	3C8B0D5C2ADF2F7090A9B8FF452A4141833DEAA05B5F44E9513DB94BFDF1D6BD	2/11/2011	2/10/2026
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=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=DigiCert EV Code Signing CA; OU=www.digicert.com; O=DigiCert Inc; C=US	376377FD1FAF4B8A5B1472647A70B941039A62D74CFE99447E48616F8D63A978	4/18/2012	4/18/2027
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=MobileMD Direct Intermediate CA; OU=MobileMD; O=MobileMD Health Services; C=US	33CF1F5C9396D7EE9E8283B2E76F400E50450575EB15AD02C956C1C5575B184D	10/21/2014	10/21/2024
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=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	30C955BBF62B0E73573DDD9564A51235ED40B3B5BBDD5E9B5561D64F96AD65D6	5/5/2016	5/4/2026
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11, Class 2 Managed PKI Individual Subscriber CA; O=The ServiceMaster Company; C=US	2E26D155C1B812404C41E7360CF1D93D4664AE267274F64B8114BBE7981E83B2	8/2/2011	8/1/2021
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=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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Blue Cross Blue Shield of Florida; C=US	2B6B476D7B6F01188226DC5A735AB94427B7000D31FFF9678E9E704A8BF4BB2	3/1/2011	2/28/2021
CN=DigiCert EV Code Signing CA (SHA2) G3; OU=www.digicert.com; O=DigiCert Inc; C=US	2B0A972DC0DAE218E9477396D3D82DEB82DE118867DD19E1D2FFF958CBB6DA9	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



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
/C=US/O=Symantec Corporation/CN=Symantec SAS Code Signing CA	279A055E2C41A9105FDFD26343229D0D38125872455C43344DDEBCAE5A0BF736	3/6/2014	5/20/2022
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	26661F230442332E5F8F109C05A3FAA3EA339C29D22B07B8D1A048C693FA1FOC	9/3/2015	9/2/2025
CN=CrossCert Class 2 CA - G3; OU=Symantec Trust Network; O=KECA, Inc.; C=KR	25A0B8C9773E4460E19971EF781BE81BDB7704ED5E486B267866A3AB6C2C0D44	6/4/2015	6/3/2025
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=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=Huntsville Hospital System CA; OU=Orion Health Direct Secure Messaging; O=Huntsville Hospital System; C=US	20E3E88747A8D88E11A527521032DC8CAE92BC33B45C93EEE04F624A70DC920A	3/5/2014	3/5/2024
CN=Symantec Class 3 SHA256 Code Signing CA - G2; OU=Symantec Trust Network; O=Symantec Corporation; C=US	2042E38FC57388F1DB3222C7AB5BE11C6EDB7E454BF45487AE44FF2D6A2B7645	7/22/2014	7/21/2024
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=DigiCert Grid Trust CA; OU=www.digicert.com; O=DigiCert Grid; C=US	1E0A3AB993157717281D42ABF801EB64DEED500E4168CA706D6A71D8103C73A2	12/7/2011	12/7/2026
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=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=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=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 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



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=DigiCert Accredited Direct Med CA; OU=www.digicert.com; O=DigiCert Inc; C=US	0E78434EC8AD6613562C8390D8B3306FC6087E0593C7D5AC2FAF9AD263879745	8/6/2013	8/6/2023
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	0B5F13974CEB577E1CC39DFFADF616FCF0C17ECA6747201AEB46AF3BC20CE4F4	10/10/2013	10/9/2023
CN=BHP Billiton Group Operations Pty Ltd Secure Email CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=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=CertiSur Class 2 CA - G3; OU=Symantec Trust Network; O=CertiSur S.A.	041E70B7DDDD0F2F90F285C4C71E0E20533312A10773794A21B5791EC8755958	8/18/2015	8/17/2025
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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
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 High Assurance Code Signing CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	007D2C8B15786232BAC0EAA31F60AAE06DC572921BAD0D46C77107D8C2DCA4B3	2/11/2011	2/10/2026
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=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Admin Intermediate Certificate Authority	F71B3E31B6CE7D735E781DB156CDD77F993A3B7A14195058D9A6D15C0A97C3B3	3/3/2011	3/2/2021
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Registration Authority Intermediate CA	CFA1F19379D9F0A3FC8D44064966B69712760AE47591D8651B7633175469A8A7	3/3/2011	3/2/2021
/C=US/O=Google Trust Services/CN=GTS CA 1D3	92C0FB93FB7CA0A1A33C193F1B1CD1CABD2E40DEBA40278A0BB103F75B8640C7	5/29/2018	5/28/2021
/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



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	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=CN/O=TrustAsia Technologies, Inc./OU=www.trustasia.com/CN=TrustAsia Secure Email CA	047217772051D292238F3355F5C5435E9B84364CCD143FC49F9C31CD605439F0	4/27/2018	4/27/2028
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G3	074541ECDF88ED992ED5ADE3ECDDEF27A26BA1B44480A195COA8DADAE2521D8E	11/5/2013	5/20/2022
/C=US/O=GeoTrust Inc./CN=RapidSSL CA - G2	0DCDC07ECABBBFE38A4606BA663987CDB3BD9817FC67D1DD0CF094AC8CA2787D	6/5/2013	5/20/2022
/C=JP/O=NTT DOCOMO, INC./OU=GeoRoot Certification Authority/CN=DKHS Device CA	123465EEC4092F8CF7ABFE92B8C701AC09EA79A498F1D3F6A02C1714F39A8423	8/12/2009	5/19/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 384 bit SSL CA	14214583E5F49CE2DB88B93CFE3F7D81B678C86AFBCA9240BAA4B9E4CE90BF2C	12/20/2012	12/19/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Assured ID Client CA G3	14FAFCA84BDB8B0EC32719272BE730FE18D6FC29301C5CF789400596EC429AFE	9/23/2019	9/23/2034
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Extended Validation Code Signing CA	169DAF83C0870AB8927C99D3FC0774DDF34FBA28B02B881DCD0B633B6D71B2BA	6/7/2012	6/6/2022
/C=US/O=thawte, Inc./CN=thawte EV SSL CA - G3	1A99019F9D412A64454749EDAA8E7DC46673D644DF3CE15CC655735EA0DF86FE	10/31/2013	10/30/2023
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G4	211DDF5059229B3577760D623D5148DB92F2D0526EA5303E7EEA0300D9FAFF3F	9/8/2014	5/20/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	2E2861289B5CCEDECAE4C31BF262E0FB0C29B6C1530573442731CA65D821E901	5/12/2015	5/11/2025
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL	2E7E65BB1A013DAF0BDF6938502E43E38217FE00D76CA2F99F7AA9E298F48534	8/6/2013	5/20/2022
/C=US/O=thawte, Inc./CN=thawte EV SSL CA - G2	37F6BD9BEE0C74F608DD474B56A72F8183077DFC2662AF79BFE3D4FABCFOB1C4	10/31/2013	10/30/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	3B6D701331A8CB809443E42A732BAD675F225B15CC439ACF26A09587C885ECFD	5/12/2015	5/11/2025
/C=CN/O=TrustAsia Technologies, Inc./OU=www.trustasia.com/CN=TrustAsia Secure Enterprise Email CA	3D774B65EE95FD6EFD1C8732B57E607C9BEE423C36E46F6E1CC8CA1F0AE62E23	4/27/2018	4/27/2028
/C=US/O=thawte, Inc./CN=thawte SHA256 SSL CA	3F3AF9C9CC2C7599EF8F6DD7CA516CFC1797D7D12002254F3BFD0D4D0FE9DE86	5/23/2013	5/22/2023
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G3	51CF0FFFC3253FC013AF786F95B190109F8C87F34DFD1CEC44C45888789F5355	6/11/2014	5/20/2022
/C=US/O=thawte, Inc./OU=Domain Validated SSL/CN=thawte DV SSL SHA256 CA	537C5C8072363E147C84D21D0D2248B6B99A9A8A43311659835EC33926DA2860	6/10/2014	6/9/2024



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	564DBC6A76550FD2D4F4BAC6448A1157B33CBD8E0B3FD76D72107540964A85B5	10/31/2013	10/30/2023
/C=JP/O=NTT DOCOMO, INC./OU=GeoRoot Certification Authority/CN=DKHS Device CA - G2	56CBB0FFC414E88822A50E9F42D46820381D8C2AAEEF56E0566817ED30F27A27	2/10/2015	5/19/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 SHA256 Code Signing CA	582DC1D97A790EF04FE2567B1EC88C26B03BF6E99937CAE6A0B50397AD20BBF8	12/10/2013	12/9/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	59F8CB7D7E9E13CB778FF62198EBE05551B515A58BBBA2EF19C33C760C823916	10/31/2013	10/30/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit Extended Validation CA	5AD4183B54F0E2762DA8D910E1E7E9F2AB2F1BC4CE6A638F0DBBF337EB4A139F	12/20/2012	12/19/2022
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G5	5B2AE8ABF5E7E563BBC34C97A22554E82393D7AC09C1765E504AE08C157B5AC	9/9/2014	9/8/2024
/C=US/O=GeoTrust, Inc./CN=GeoTrust True Credentials CA 3	5D74ED61D0B311E981BBCF0F419A35FA9FA1EC70FF1AEB742D73BCFEBA06CFFF	8/22/2012	5/21/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Managed PKI Administrator CA - G4	5D81D0AA3476F48A5A675D6D3E6AB766BDC8AA167A1A94D79DF91B4251082FA4	1/6/2015	1/5/2025
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit EV CA - G2	663636C03FD0B5B171F2B04407C3DF767B349C8A990D87CE485898166E2B5120	5/12/2015	5/11/2025
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 EV SSL CA - G2	6C66B76E68D6C79FAFE5C94E9B7D0CF753C715CC85387E11323B7935F861C187	10/31/2013	10/30/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Organizational CA - G4	6F6B2D4A309A156C61977FBCCF7D2AC9F59623FFCCEAC3E4EE5A83A18D895275	5/6/2014	5/5/2024
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA - G2	6FF6F63F6A0D3D63446CDAA523D26273B126C02F922E05D73C4748EB89B86393	9/8/2014	5/20/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	74EB307A78AC7E8570CC1BAE1C51102A6053C96F3332D703285A743BCBD35D9E	5/12/2015	5/11/2025
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 384 bit Extended Validation CA	77FE876A1C476349F5EB9AE9BF53F7814A0AE411562667C58B7ED27869C54091	12/20/2012	12/19/2022
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL SHA256 CA	784ACA1063BE4700B3A62F45C2F93B7EEF8BF230FB869610E864FC4B3A23D09F	6/10/2014	6/9/2024
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL - G2	78DC9CA5F4C2913F3FB74AC52DFFFCDD2300DA5A772FC2B84C53A2E74437EDD20	9/8/2014	5/20/2022
/C=US/O=thawte, Inc./CN=thawte Extended Validation SHA256 SSL CA	7920B8E18D2FC12D81C2FAB90A63B1B52AB329CE7CD1CB7CA094CDF9D600F492	4/9/2013	4/8/2023
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G4	8BC1B9D7DEFCCA1CCD09BACDA88F27762092F1ED4A34AE5E4602BB9CC915C506	8/29/2014	5/20/2022
/C=NL/O=Intermediate Certificate/OU=Domain Validated SSL/CN=Intermediate Certificate DV SSL CA	8C2745352289E994B3EA349445B1CF6418E51740E1614F8B5667DAD2990AAEFB	6/1/2012	5/21/2022
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G2	90AF11E577C72C940B40EC2F3D50507310091EE6196C9C16B228882264A4D808	8/27/2012	5/20/2022
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA - G2	92EF2F5B553570607DC29C8010E7ABC16283FE355F955A248254290A260A9EBB	6/10/2014	6/9/2024
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G4	95B09D02122FA8AE6235780F6EA6503E767AC021A0874FE831CE803A50EA8FD7	10/31/2013	10/30/2023
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Assured ID Client CA G2	9E12D6E13DDD53A890A2B3A37423AE5E457731A7B34A153992F1EF1F5489A45E	9/23/2019	9/23/2034
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 EV SSL CA - G3	9E6BC5F9ECC52460E8EDC02C644D1BE1CB9F2316F41DAF3B616A0B2058294B31	10/31/2013	10/30/2023
/C=US/O=thawte, Inc./OU=Domain Validated SSL/CN=thawte DV SSL CA - G2	9F2511A23E70D95FB62798508A676CC38964100936A6E6D3CAE77154C0290F02	6/10/2014	6/9/2024
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Client CA G2	A449DBAB6D4C035FAAFD9D045891FE98ABD73D286268A8A83F854145551692E3	9/23/2019	9/23/2034



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Shared Public Organization CA - SHA1	A829444AD2FB48079A595FBBD88C4E658EE2089A5E129B89AAACCE851198FFD7	7/11/2013	7/10/2023
/C=IT/O=Telecom Italia Trust Technologies S.r.l./OU=Digital Identity and Security/CN=Trust Technologies Global Client CA	AA6A2380A7E8254DAD4620AE0895DE74047F33F5268758DCF27C4D280B384A50	8/24/2017	5/10/2025
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA	ADEBF83FD3D3F9546BB77FAAB516DD9337CCF91E1198F74337769EC68E6E826E	12/20/2012	12/19/2022
/C=US/O=thawte, Inc./CN=thawte SSL CA - G2	B7A8AF2A4A43F0A86B15604DE6461209C9CD76894D8B0748BC99D9A797013BB0	10/31/2013	10/30/2023
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Client CA G3	BA361260FF1D46031686305E082DE836D4A320466E0DE9E013F00CEDDD62317	9/23/2019	9/23/2034
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA - G3	BC3F03A436240EDBA5F83714F6F77E34B37F9B1F0C08C1E558D981E279E8209	8/29/2014	5/20/2022
/C=US/O=GeoTrust Inc./CN=GeoTrust Extended Validation SHA256 SSL CA	BC9E223CC42275CC034190DF2D0179B55B732D5AC531137A7B522DCFE04A0592	4/9/2013	4/8/2023
/C=US/O=Wells Fargo/OU=Symantec Trust Network/CN=Wells Fargo Certificate Authority WS1	C21087416BBF983B9FFE40F5D56EE0FFD94EB1E666B04A532ADE482EC201D67C	8/25/2015	8/24/2025
/C=US/O=thawte, Inc./CN=thawte SHA256 Code Signing CA	C4D18E0A58E4EFFD17ED77C840B613EF15F551076EA92C2B77F6609A6C2557C7	12/10/2013	12/9/2023
/C=US/O=GeoTrust Inc./CN=GeoTrust Extended Validation SSL CA - G2	C7B57A02F937AE0BE3E21027030592C9D47A70D7013EB3AA94DBC3B7B5AB0662	8/23/2012	8/22/2022
/C=NL/O=Intermediate Certificate/OU=Domain Validated SSL/CN=Intermediate Certificate DV SSL CA - G2	D876A081FB3827BA22A4087DF675126FF8A96AAB90364BC61F62CE8E9507AA93	9/8/2014	5/20/2022
/C=US/O=GeoTrust Inc./CN=GeoTrust SHA256 SSL CA	D9E0C64AB27A64D79CCCF42A34EC75A251A7E543353C19E984A70EB2F546CDFF	5/23/2013	5/22/2023
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G2	DED831CBCEC5F99D38E86ECC4D76945DF40F2E547C94E4B0124094875AF6A558	6/4/2013	5/20/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Oracle Corporation/OU=Symantec Trust Network/CN=Oracle SSL CA - G2	E4AF2FAE41187D58F209B01B1D8753C2DCCB3F601CE86273E37E8738C2A5CCB5	1/6/2015	1/5/2025
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA	E6683E88315CD1CB403C0CEA490F7C4B4C82C91CD485037489AADBAA90839F61	12/11/2013	5/20/2022
/C=US/O=Symantec Corporation/CN=Symantec SAS EV Code Signing CA	E865F583A928CCB6A7286B94E7920EE1F4998C030B438689E9583BCCD6AC5261	1/12/2016	1/11/2026
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	EAE72EB454BF6C3977EBD289E970B2F5282949190093D0D26F98D0F0D6A9CF17	10/31/2013	10/30/2023
/C=US/O=thawte, Inc./CN=thawte EV Code Signing CA	F376F6E5BF660F6BEDB768DCD1303EADD4A96F2ED7A97717E878FAE6BB5959FA	3/1/2016	2/28/2026
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Extended Validation Code Signing CA - G2	F726C8891336B1B97CBC86F596F1267FC180152122573E76D5145A7C64E2CFF7	3/4/2014	3/3/2024
/C=US/O=thawte, Inc./CN=thawte SHA256 Code Signing CA - G2	F76F0D8AD330ACFD4C5BD05A58A1CF155DE00BE2C98F4E7899BE24E80A2ABCBF	7/22/2014	7/21/2024
/C=US/O=Government of the District of Columbia/OU=Office of the Chief Technology Officer/CN=DC Government SHA2 Assured ID Intermediate CA	FB1147E7AB97A29BB9C1140ABF3DE831F4C5F60D11B90FEC999A0816375D8457	7/13/2017	7/13/2027
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Registration Authority Intermediate CA	5B690E1CD2BC0016E4DB2AABAB503745E41F86B2448F2EC06D29F24999DEBCA2	6/7/2011	6/6/2021
/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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Organizational CA - G2	F5068C4293A26A0E420D02AE4BEF27008377E3E7ECD8E5CF194428162E3C40F4	3/16/2011	3/15/2021
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Admin Intermediate Certificate Authority	062A76E5196E4C6220ACA7D32AA419761101374C11866C3627D5F8A055ECE2CE	6/7/2011	6/6/2021
/DC=COM/DC=ABB/O=ABB/CN=ABB Intermediate CA 5	2534EC1BD74C3C1B7661A0E7CC28F1BDF2A82CCD3943EEAADCD8FED95055EAD1	11/15/2016	11/15/2023
/DC=COM/DC=ABB/O=ABB/CN=ABB ECC Intermediate CA 1	64017D78B5F0C04C419735D6A4A6D52EC1D20115243B0D7C74507E257FFA4A40	9/7/2016	9/7/2023
/C=US/O=DigiCert, Inc./CN=DigiCert PKI Platform C2 Shared SMIME Individual Subscriber CA	55F3A359F0A26D72FF244C2EE396FD51BC2400EA250C91EFC355E2F8103C9939	6/4/2019	6/4/2029
/C=US/O=DigiCert, Inc./CN=DigiCert PKI Platform Class 3 Shared SMIME Organization CA	7F755DC2B9EE99EB02D71CB1805059AAABB5EB3E8558DCA8C09A1D0DE258D767	5/29/2019	5/29/2029
/C=US/O=Avaya Inc/OU=Avaya IT/OU=Class 2 DigiCert PKI Platform Individual Subscriber CA/CN=Avaya Client Services Users CA 2	1FFA0D1F55CE4A0507E8C38E8B557B88CBDD690D903D996B1F7850D81D6A4A93	11/26/2019	11/26/2029
/C=JP/O=Mitsubishi Electric Information Network Corporation/CN=Enterprise Premium Public CA	4A45559AD89684BB439FCD2CC4C5EC0F92EE0692CD6B9763957DE31A2F467CCA	4/29/2020	4/29/2030
/C=JP/O=Mitsubishi Electric Information Network Corporation/CN=Enterprise Premium Public CA	DF025DCE2A36411BE5EB6590C161EFD2652EC2B3F70D5C651F90D023C46F3A00	6/9/2020	6/9/2030
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Federated Trust CA	E5BBDDCAD572EC9D2DD96E0E5EBF049A9181F070F1E33CC1635AD8EC487D2177	11/18/2011	11/18/2023
/C=US/O=GeoTrust, Inc./OU=For Internal Use Only/CN=RapidSSL Enterprise CA	87AA71AF032E36BD69DAF4014FCAD8F2733AA00DEAB959335AE3866E4B6D3A1D	3/8/2011	3/5/2021
/C=US/O=Oracle Corporation/OU=VeriSign Trust Network/OU=Class 3 MPKI Secure Server CA/CN=Oracle SSL CA	C76F70980598C66A8E327E17B495A2276265C4B9A3575EFA1D550502A823D591	10/12/2010	10/11/2020
/C=US/O=GeoTrust Inc./OU=GeoTrust Authentication Services/CN=GeoTrust True Identity CA 2	FF1D35ED464063D6031C71E414262CC2310E8C547AB7F7CF2955C9E0349E533F	1/28/2011	1/25/2021



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Admin Intermediate Certificate Authority	6D0BD6E1AC0EC398EE8537906D98F378FC7AB49C1E296AF233374FA5A271DB34	6/7/2011	6/6/2021
/C=US/O=Oracle Corporation/OU=VeriSign Trust Network/OU=Class 3 MPKI Secure Server CA/CN=Oracle SSL CA	7F6889FFE8B02045E2CAC99A2F2EE4F4C2EED24934B6521872D34BF812671C4B	10/12/2010	10/11/2020
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Organizational CA - G2	05BDD9A7C6706D39D6DB1A580AAFF67D4673027B6CF01FD15367D8ED84A890F0	3/16/2011	3/15/2021
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/OU=Insattningsgaranti Service CA/CN=Symantec Class 3 Organizational CA - G3	CF6F24FFE48F8408A75CFADF2B65F8A4E4172F3B7C24C41B5B7481D24018197C	6/21/2011	6/20/2021
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Registration Authority Intermediate CA	83C935F34C50B7665409404AFE5DFA07ADCBC5C7B52B2BEF0AC6E993C00545D76	6/7/2011	6/6/2021
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Organizational CA - G2	DDE4BEBF262C9D8DF5CB54FE4F5995191EAF58ADCB92FE5AED3128AC0D1916C7	3/16/2011	3/15/2021
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA	8FDA7A8813546F9A7CB065CD32D3650D5B56A2B7F942B9499AEB42A86A3E9D56	4/11/2011	4/8/2021
CN=DigiCert Universal Issuing CA; OU=www.digicert.com; O=DigiCert, Inc; C=US	622A42A28CAD83D962771D9D09BD307877D4AB513B4FE0CF2E5851E79FFA6FE	12/8/2017	12/8/2027
CN=DigiCert Global G3 Code Signing ECC P256 SHA384 2021 CA1; O=DigiCert, Inc.; C=US	DDF122E12D2BE604BEEF8A4A55C5EB802E19D5B8D8E1AF994580BD92F4A179E3	7/28/2021	7/27/2036
CN=DigiCert Trusted G4 Code Signing RSA4096 SHA256 2021 CA1; O=DigiCert, Inc.; C=US	47818F36F1DBA7D4F2A29360DB710E9BD75E3B13613618AAD45C01A10626523A	7/28/2021	7/27/2036



Timestamping CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Timestamp RSA SHA-1 2020 CA1; O=DigiCert, Inc.; C=US	B9B68325C0D7A2C036E1F2D8455C71F8076DB12A9C24DEF1574BFEAD3349544B	12/17/2020	11/9/2031
CN=Symantec SHA256 TimeStamping CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	F3516DDCC8AFC808788BD8B0E840BDA2B5E23C6244252CA3000BB6C87170402A	1/12/2016	1/11/2031
CN=DigiCert SHA2 Assured ID Timestamping CA; OU=www.digicert.com; O=DigiCert Inc; C=US	CA8D0F4736454AECBEC5DEEC80998C9EBF41D06C728F3C76CCA24151BC62D463	1/7/2016	1/7/2031
/C=US/O=Symantec Corporation/CN=Symantec Time Stamping Services CA - G2	0625FEE1A80D7B897A9712249C2F55FF391D6661DBD8B87F9BE6F252D88CED95	12/21/2012	12/30/2020
/C=US/O=Symantec Corporation/CN=Symantec Time Stamping Services CA - G2	83C1EA9E9EFCA283B840E167F9EA79C4E32ACD33834F59D138FCDAB9D8806B20	10/18/2012	5/20/2022
/C=US/O=GeoTrust Inc/OU=GeoTrust TimeStamping CA/CN=GeoTrust TimeStamping CA I	D36027A85FE1EDCBA4F1BA92C3C8B37864E862D2B4A02B8FF643F582609F6A08	3/7/2006	3/7/2021
/C=US/O=GeoTrust Inc/OU=GeoTrust TimeStamping CA/CN=GeoTrust TimeStamping CA I	321DF681FB13682259A572BE65FDDB8E6C9A2CB21F945683D3B704517BC192E4	3/7/2006	3/7/2021



## DIGICERT, INC. MANAGEMENT'S ASSERTION

DigiCert, Inc. ("DigiCert") operates the Certification Authority ("CA") services for the CAs in scope enumerated in [Attachment B](#) and [Attachment C](#), and provides code signing ("CS") CA services.

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

For its CAs enumerated in [Attachment C](#) for the period October 1, 2020 to October 31, 2020:

- disclosed its extended validation code signing ("EV CS") certificate lifecycle management business practices in the applicable versions of its DigiCert Certification Practices Statement ("CPS") and DigiCert Certificate Policy ("CP") as enumerated in [Attachment A](#), including its commitment to provide EV CS certificates in conformity with the CA/Browser Forum Guidelines 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 CS certificates it manages is established and protected throughout their lifecycles; and
  - EV CS subscriber information is properly authenticated
- maintained effective controls to provide reasonable assurance that:
  - requests for EV CS Signing Authority and EV CS Timestamp Authority certificates are properly authenticated; and
  - certificates issued to EV CS Signing Authorities and EV CS Timestamp Authorities are not valid for a period longer than specified by the CA/Browser Forum
- maintained effective controls to provide reasonable assurance that its EV CS Timestamp Authority is operated in conformity with CA/Browser Forum Code Sign Working Group requirements

based on the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation Code Signing Certificates v1.4.1](#).



For its CAs enumerated in [Attachment B](#) for the period October 1, 2020 to October 31, 2020:

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

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

For its CAs enumerated in [Attachment B](#) for the period November 1, 2020 to September 30, 2021:

- disclosed its CS certificate lifecycle management business practices in the applicable versions of its DigiCert CPS and DigiCert CP as enumerated in [Attachment A](#), including its commitment to provide CS certificates in conformity with the applicable Baseline Requirements for the Issuance and Management of Publicly-Trusted Code Signing Certificates, and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
  - CS subscriber information was properly collected, authenticated and verified; and
  - the integrity of keys and CS certificates it manages is established and protected throughout their life cycles.
- maintained effective controls to provide reasonable assurance that its CS Timestamp Authority is operated in conformity with CA/Browser Forum Code Sign Working Group requirements

and, for CAs as enumerated in [Attachment C](#) in scope only for Principle 3: Extended Validation Code Signing Service Requirements:

- maintained effective controls to provide reasonable assurance that:
  - EV CS subscriber information was properly collected, authenticated and verified; and
  - the integrity of keys and EV CS certificates it manages is established and protected throughout their life cycles.



based on the [WebTrust Principles and Criteria for Certification Authorities - Code Signing Certificates v2.0](#).

DocuSigned by:  
*Jeremy Rowley*  
CFF89E6506D0438...

12/15/2021

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Jeremy Rowley  
Chief Product Officer



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

### Certificate Policies

Policy Name	Version	Effective Date
<a href="#">DigiCert Certificate Policy</a>	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
<a href="#">DigiCert Certification Practices Statement</a>	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 FOR CODE SIGNING

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	FF856A2D251DCD88D36656F450126798CFABA4DE40799C722DE4D2B5DB36A73A	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=Symantec Class 1 Public Primary Certification Authority - G6; OU=Symantec Trust Network; O=Symantec Corporation; C=US	9D190B2E314566685BE8A889E27AA8C7D7AE1D8AADD8A3C1ECF9D24863CD34B9	10/18/2011	12/1/2037
CN=Cybertrust Global Root; O=Cybertrust, Inc	960ADF0063E96356750C2965DD0A0867DA0B9C8BD6E77714AEAFB2349AB393DA3	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
CN=DigiCert High Assurance EV Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	7431E5F4C3C1CE4690774F0B61E05440883BA9A01ED00BA6ABD7806ED3B118CF	11/10/2006	11/10/2031



Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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
CN=Symantec Web PKI RSA Root - G1; OU=Symantec Trust Network; O=Symantec Corporation; C=US	F6BB5B7985A8736594C14679FA31603814502AAEB5F4282A69985DC84A450777	9/21/2017	9/20/2042



Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Cybertrust Global Root; O=Cybertrust, Inc	802447EE521CC666CDB7BBAE93A385E55F200D76A3D1356A85445AC4CDBED12	1/8/2014	12/15/2030
CN=Symantec Web PKI ECC Root - G1; OU=Symantec Trust Network; O=Symantec Corporation; C=US	92BB72F15EB75DE467C84B438181034BDAE9A016EC26434BEE3C9BBAD8CD8AF0	9/21/2017	9/20/2042
CN=DigiCert High Assurance EV Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	071B8B4B13AD7B2BE09FDD7FBDF3482460838098C21519B83B3150F8E919832D	8/13/2018	11/4/2022
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 2007 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G4	69DDD7EA90BB57C93E135DC85EA6FCD5480B603239BDC454FC758B2A26CF7F79	11/5/2007	1/18/2038
/C=ZA/ST=Western Cape/L=Durbanville/O=Thawte/OU=Thawte Certification/CN=Thawte Timestamping CA	6B6C1E01F590F5AFC5FCF85CD0B9396884048659FC2C6D1170D68B045216C3FD	1/1/1997	12/31/2020
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 2006 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G5	9ACFAB7E43C8D880D06B262A94DEEEE4B4659989C3D0CAF19BAF6405E41AB7DF	11/8/2006	7/16/2036
/C=US/O=GeoTrust Inc./CN=GeoTrust Universal CA 2	A0234F3BC8527CA5628EEC81AD5D69895DA5680DC91D1CB8477F33F878B95B0B	3/4/2004	3/4/2029
/C=US/O=GeoTrust Inc./CN=GeoTrust Universal CA	A0459B9F63B22559F5FA5D4C6DB3F9F72FF19342033578F073BF1D1B46CBB912	3/4/2004	3/4/2029
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 1999 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G3	EB04CF5EB1F39AFA762F2BB120F296CBA520C1B97DB1589565B81CB9A17B7244	10/1/1999	7/16/2036



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
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Transition RSA Root	0D88900DBB68C6CA5471F653FCACD407EBD7B1519046F9E0B8CED3C274FD11A1	11/6/2017	11/5/2022
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=DigiCert Transition Root G3	0F57B96FA7B31247EC39CB307D38CA2BF3B29F54AFD50A351D18533529517B46	12/8/2017	12/7/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G2	2D4FAD3455AB61397401ABBB518922F84336B67E02FC8D2DB283825C4AB981BB	11/6/2017	11/5/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G3	53A5E32ACC5714ED20C7778C655D1EE97EC07156074C8B016E2CFC73E9D2712B	11/6/2017	11/5/2022
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=thawte Primary G3 Transition Root	85743AEA6A97C13445E0824C2E1FE502B97ADD124A97EF5120FE07F55812FC33	12/8/2017	12/7/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G2	AADADD5A879D2EB8C41A89597291292709D42052F5B6399541C694C3B7353CD1	4/3/2018	4/2/2028
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 2006 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G5	D9BC973F88909696DA10833197944CA58AC4A88847779C9133374267100EEC58	11/8/2006	11/7/2021



Cross-Signed Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Transition ECC Root	DB98194E55B936D26E6CB3F460A262EB6CA66337E7BFF17A0BFC083251F63626	11/6/2017	11/5/2022
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=thawte Primary Transition Root	DBA1097710F3C629943C23DC7503AC82B9142825EF049F1C26538DB36B480549	12/8/2017	12/7/2022
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=GeoTrust Primary Transition Root	F54F6CED56CF682B570A6CAEC313E9482760DE12E8F928AE30452C4C66AC761A	12/8/2017	12/7/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Trusted G4 Code Signing RSA4096 SHA384 2021 CA1; O=DigiCert, Inc.; C=US	46011EDE1C147EB2BC731A539B7C047B7EE93E48B9D3C3BA710CE132BBDFAC6B	4/29/2021	4/28/2036
CN=DigiCert Global G3 Code Signing ECC SHA384 2021 CA1; O=DigiCert, Inc.; C=US	35769D41EF436A4D63DDB00AB11C6CE968989FCDD829E7018F5DB90AC4BD3CD0	4/29/2021	4/28/2036
CN=DigiCert Global Root G2; OU=www.digicert.com; O=DigiCert Inc; C=US	0BA8C0D459B76ABC0825294F565E24F4F169D4A4819D0692D371522D297724B8	3/4/2021	3/3/2031
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 One AATL CA; O=DigiCert Inc.; C=US	419507E46D6520ECEC453A0C2B5292A099431C35E8967A6D0EE573CAAB116C71	4/29/2021	4/28/2031
CN=.NET Foundation Projects Code Signing CA2; O=.NET Foundation; C=US	D60D2D02F83920E89C0063AECA7C4630642C80EB824FFE43D9A11C250E5F51B9	7/15/2021	7/14/2031
/C=US/O=DigiCert, Inc./CN=DigiCert G5 CS ECC SHA384 2021 CA1	EDAEC94C3C0F7C3239312EAAF7B76D499410A55D0E008CB6A64779DAD3A1998	2/11/2021	2/10/2036
/C=US/O=DigiCert, Inc./CN=DigiCert G5 CS RSA4096 SHA384 2021 CA1	26A9454579B138E765087276AF42C1C206C8B2ED0DE6639D1BA992626A797A91	2/11/2021	2/10/2036
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
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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
/C=US/O=Symantec Corporation/CN=Symantec SHA1 SAS Code Signing CA	F82CF9003A28693F430C7E939581097BA097C93AEE510A105D7822324F364C9A	10/8/2015	5/20/2022
CN=OFAC VPN CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=WoSign EV Code Signing Pro CA; O=WoSign CA Limited; C=CN	F6DFDED61FF88EF10B9E6DCFBCE0F1615E05866CEBAFCD6D48AEE80132C70347	5/23/2017	5/23/2027
CN=DigiCert SHA1 Code Signing ICA VRSN PCA3-G1; OU=www.digicert.com; O=DigiCert, Inc.; C=US	F6A54A76C4A0B529ADC8D457B503A7B3ADF8B0AEEA8EE72D0FEFD2372E8199B	5/9/2019	8/1/2028
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=DigiCert Federated ID L4 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	EFB2A3F37273D3589047919825EA5337E9B938A8C178B61C18C2B4270B9665AC	10/30/2012	10/30/2022
CN=DigiCert EV Code Signing CA (SHA2) G2; OU=www.digicert.com; O=DigiCert Inc; C=US	EDCD88B6BD77FC8A2680E2ECB8FFBAC45898DFA0FDE983425E0F1BEB058C04B6	7/18/2018	7/18/2028



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=ADACOM Class 2 CA - G4; OU=Symantec Trust Network; O=ADACOM S.A.; C=GR	EC28782BFB997875946D078C3A9C6481D34D5F775D29F0F8CB80010C9331398	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	EAEFEB08D568E7F6CF6D892CAB6A22E14F20C6F10E3A418CFB42B12309333367	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=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=OFAC VPN CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=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=TERENA Personal CA 3; O=TERENA; C=NL	DD4E0C17900F3FC2A5B7B773AE40218AD73216B5CE5D285EBFFCE8830D0F034A	11/18/2014	11/18/2024



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	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=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=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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)10, Class 2 Managed PKI Individual Subscriber CA; O=Bridgewater Associates, LP.; C=US	D8E79EBED997B764E6D0DF624F2DBB4EFF2A1B6049C6F1A1A1E88263C43DB221	10/12/2010	10/11/2020
CN=Symantec Japan Class 1 CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	D6A3574E4C2AA2D15397D5A9BEFCF8380910CC0148BAB86A0B9FF40E2659BCE8	4/15/2014	4/14/2024
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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=Symantec Class 1 Individual Subscriber CA - G4; OU=Symantec Trust Network, Persona Not Validated; O=Symantec Corporation; C=US	CF47B370761E9CA40096CDB0C34B61429957E410780339A0D005D73E371204E	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=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=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=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=DigiCert EV Code Signing CA (SHA2); OU=www.digicert.com; O=DigiCert Inc; C=US	C7460B0EDDA1B44C8E2164B234EBECC3962A6A37A936B74A6E7D46682938F084	4/18/2012	4/18/2027
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=DigiCert SHA2 High Assurance Code Signing CA; OU=www.digicert.com; O=DigiCert Inc; C=US	C51B83A0DE49A201A5FBE947032C04702F8CA7C2D02ADF28B73D42C8ACD1C362	10/22/2013	10/22/2028
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Oracle Root CA; OU=VeriSign Trust Network; O=Oracle Corporation; C=US	C40469CF7C6561AF3288E2FFDD439AC4F0C9CEA933597C07D0D510FC820282AD	2/8/2011	2/7/2021
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=Symantec Class 3 Extended Validation Code Signing CA - G3; OU=Symantec Trust Network; O=Symantec Corporation; C=US	C267DC115D57DD0226279B346DF1953DD2C07A85CB48A0D899FD5724F5AF681F	5/12/2016	5/11/2026
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=Indian Health Service-RPMS DIRECT Messaging CA; OU=directihs.net; O=Indian Health Service; C=US	C07E9037CB81012D3046613285C14B63A0284964A4F5A821FC3B18ECDEBA0A66	4/4/2014	4/4/2024
CN=Axesson Direct CA; OU=www.axesson.com; O=Axesson Inc.; C=US	BF4655F16AA338D7C7FF2BDC949A524BD4797B8B3C8341C608C9F65CB1CB8177	1/8/2014	1/8/2024
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=SCF Arizona CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=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
CN=AAMC Direct Intermediate CA; OU=AAMC Direct Messaging; O=Anne Arundel Medical Center; C=US	BB1C01E884DD0919AB94D5AF5575CD6FEB71E560B2B58735A78B150A10D54BF3	5/28/2015	5/28/2025
CN=Goldcorp Class 2 Certificate Authority; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Goldcorp Inc.; C=CA	B97867E65B805D78153D5349389C7E54695A45DDB2A4A015CAD8069C63FCF669	9/15/2011	12/31/2021
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=CompuGroup Medical Certificate Authority; OU=IT; O=Compugroup Medical, Inc; C=US	B604026A3590392ABEFB6B18E8176453656115D2A0060F713E191A9FD076532A	12/8/2015	12/8/2025
CN=Cosapi Data Public CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Cosapi Data S.A.; C=PE	AFCDF78EBA95C0801A2FEBAE6F695D469AF346215C5A3E554F161D23C4BB40F91	5/12/2016	5/11/2026
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=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=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=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=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=BT Class 2 CA - G2; OU=VeriSign Trust Network; O=British Telecommunications plc; C=GB	A0BD4E39E6FE415F8B1ABA4773C3EA60905ED61F8EA27875CC03E9A94D441CB6	6/13/2008	6/12/2023



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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=INTEGRIS Direct Intermediate CA; OU=INTEGRIS DIRECT Messaging HISP; O=INTEGRIS; C=US	97D276C5FDF2DC94539ABB9E17BC3995730CD51739EAE95B0F67B39E99905F11	11/18/2014	11/18/2024
CN=NCC Group Secure Server CA G3; O=NCC Group; C=US	963056B0D941D9DBE27AC778053D85E43CC79F476AD34CFDD799C27E381840EB	7/30/2014	7/30/2029
CN=DigiCert Secure Server CA; O=DigiCert Inc; C=US	94D4ECE2ED9A5457B969A13B260489E9A5FE4790A041F27A3EB4126C84418EF9	3/8/2013	3/8/2023
CN=DigiCert Assured ID CA G2; O=DigiCert Inc; C=US	93C381CB07B353A920C2A7BED6BEBF195C68279DD0527D37F20BDD0D99C330FA	8/1/2013	8/1/2028
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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=GeoTrust Code Signing CA - G2; OU=www.digicert.com; O=DigiCert Inc; C=US	8D7C499D7FE9EEEC05D9EB42F03EFE402807919803E8E6CD6C1F2BF5EF6A7D8F	7/18/2018	7/18/2028
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=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 <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa (c)11</a> , 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 <a href="https://www.verisign.com/rpa(c)10">https://www.verisign.com/rpa (c)10</a> , 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=Optioncare CA; OU=Orion Health Direct Secure Messaging; O=Optioncare; C=US	89CFBC8FBFF7FE026B6CF2EA688419BDE8BBC1FB451329C865D6C6CBCF6BD097	3/1/2016	3/1/2026
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=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=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=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=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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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	765A29596F5F74EEA3BDAC0670E7DF42BFDB708765AD4F892FEEF714C214E7AE	4/26/2016	4/25/2021
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=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=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 <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa (c)11</a> , 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=CDC Secure Data Network CA G2; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa(c)10">https://www.verisign.com/rpa (c)10</a> , 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 <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa (c)11</a> , 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=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=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=GREEN SHIELD CANADA CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=BHP Billiton Group Operations Pty Ltd Secure Email CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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
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=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=DigiCert Assured ID CA G3; O=DigiCert Inc; C=US	634FDF26C994E76A2918D9EFC4CAB9C6FCB344EF642A79C89192BCDA0ED52F4C	8/1/2013	8/1/2028
CN=Postecom CS5; OU=Servizi di Certificazione; O=Postecom S.p.A.; C=IT	61A01EA7E8D8016CCECF92FF13E3DBE082E0779C4CB64BF6F0C316258D6210F5C	4/26/2016	4/26/2023
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=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 Governmental Direct CA; OU=www.digicert.com; O=DigiCert Inc; C=US	5F665CBACC1E37171EA83EA85C570F9861CAF77BAC8886ABC4BB19B3698C094A	9/25/2015	9/25/2025
CN=Abbott Laboratories Secure Code Signing CA; O=Abbott Laboratories Inc.; C=US	5F1A82C09CBAE239D4E3F0704C970755547E53E3CF290F9479FE7E98665FEF0F	6/7/2016	6/7/2026
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=DigiCert High Assurance CA-3; OU=www.digicert.com; O=DigiCert Inc; C=US	57D8D5B832616B7823466A0C372770D16A5DCF246581F0F58373E51C7E1E5316	4/3/2007	4/3/2022
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=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=DigiCert SHA2 Assured ID Code Signing CA; OU=www.digicert.com; O=DigiCert Inc; C=US	51044706BD237B91B89B781337E6D62656C69F0FCFFBE8E43741367948127862	10/22/2013	10/22/2028
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	4F5C36419568CB1E7084FB82DACDD1015ADB1D57B5C3E3F17F7F7CA092977432	6/19/2012	6/18/2022
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=Sonavation IoT CA; OU=sonavation.com; O=Sonavation, Inc.; C=US	4C56CA7A3C10EB58765E0FFCF8035C57C9F3BDB014862F676756CF789193F10E	5/19/2015	5/19/2025



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=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=Plex Devices High Assurance CA; O=Plex, Inc.; C=US	48A7C9C5A36734FC9E204D63CE6BBBCD9E21C1978604760CD8D30D6F4C67B67C	1/14/2015	1/14/2025
CN=DigiCert ECC Secure Server CA; O=DigiCert Inc; C=US	458446BA75D932E914F23C2B57B7D192EDDBC2181D958E1181AD5251747A1EE8	3/8/2013	3/8/2023
CN=SCHIE Direct CA; OU=SCHIE Direct Messaging; O=SCHIE; C=US	443C8158264710C0B768A8170E59BF1FAE4079D2BC39939A79FA839174ED81AE	6/7/2016	6/7/2026
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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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=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 Assured ID Code Signing CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	3C8B0D5C2ADF2F7090A9B8FF452A4141833DEAA05B5F44E9513DB94BFD1D6BD	2/11/2011	2/10/2026
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=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=DigiCert EV Code Signing CA; OU=www.digicert.com; O=DigiCert Inc; C=US	376377FD1FAF4B8A5B1472647A70B941039A62D74CFE99447E48616F8D63A978	4/18/2012	4/18/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=MobileMD Direct Intermediate CA; OU=MobileMD; O=MobileMD Health Services; C=US	33CF1F5C9396D7EE9E8283B2E76F400E50450575EB15AD02C956C1C5575B184D	10/21/2014	10/21/2024
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=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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=ServiceMaster CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11, Class 2 Managed PKI Individual Subscriber CA; O=The ServiceMaster Company; C=US	2E26D155C1B812404C41E7360CF1D93D4664AE267274F64B8114BBE7981E83B2	8/2/2011	8/1/2021
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=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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Blue Cross Blue Shield of Florida; C=US	2B6B476D7B6F01188226DC5A735AB94427B7000D31FFF9678E9E704A8BF4BB2	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=DigiCert Grid Trust CA G2; OU=www.digicert.com; O=DigiCert Grid; C=US	28CBB4E0D9C4EE6D04AC8F14717605AE3A4BD8CBF8D081B27AF6EDB2F3D76A32	1/8/2014	1/8/2029
/C=US/O=Symantec Corporation/CN=Symantec SAS Code Signing CA	279A055E2C41A9105FDFD26343229D0D38125872455C43344DDEBCAE5A0BF736	3/6/2014	5/20/2022
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=CrossCert Class 2 CA - G3; OU=Symantec Trust Network; O=KECA, Inc.; C=KR	25A0B8C9773E4460E19971EF781BE81BDB7704ED5E486B267866A3AB6C2C0D44	6/4/2015	6/3/2025
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=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=Huntsville Hospital System CA; OU=Orion Health Direct Secure Messaging; O=Huntsville Hospital System; C=US	20E3E88747A8D88E11A527521032DC8CAE92BC33B45C93EEE04F624A70DC920A	3/5/2014	3/5/2024
CN=Symantec Class 3 SHA256 Code Signing CA - G2; OU=Symantec Trust Network; O=Symantec Corporation; C=US	2042E38FC57388F1DB3222C7AB5BE11C6EDB7E454BF45487AE44FF2D6A2B7645	7/22/2014	7/21/2024
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=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=DigiCert Grid Trust CA; OU=www.digicert.com; O=DigiCert Grid; C=US	1E0A3AB993157717281D42ABF801EB64DEED500E4168CA706D6A71D8103C73A2	12/7/2011	12/7/2026



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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=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=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 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 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



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=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=BHP Billiton Group Operations Pty Ltd Secure Email CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=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=CertiSur Class 2 CA - G3; OU=Symantec Trust Network; O=CertiSur S.A.	041E70B7DDDD0F2F90F285C4C71E0E20533312A10773794A21B5791EC8755958	8/18/2015	8/17/2025
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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
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 High Assurance Code Signing CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	007D2C8B15786232BAC0EAA31F60AAE06DC572921BAD0D46C77107D8C2DCA4B3	2/11/2011	2/10/2026
CN=Volvo Car Corporation CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11/CN=Symantec Class 3 Admin Intermediate Certificate Authority	F71B3E31B6CE7D735E781DB156CDD77F993A3B7A14195058D9A6D15C0A97C3B3	3/3/2011	3/2/2021
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11/CN=Symantec Class 3 Registration Authority Intermediate CA	CFA1F19379D9F0A3FC8D44064966B69712760AE47591D8651B7633175469A8A7	3/3/2011	3/2/2021
/C=US/O=Google Trust Services/CN=GTS CA 1D3	92C0FB93FB7CA0A1A33C193F1B1CD1CABD2E40DEBA40278A0BB103F75B8640C7	5/29/2018	5/28/2021
/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	A75939F270BA6F23ECEEE83C70A3755EB46449FE2707FF01D626FB745158F9413	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=CN/O=TrustAsia Technologies, Inc./OU=www.trustasia.com/CN=TrustAsia Secure Email CA	047217772051D292238F3355F5C5435E9B84364CCD143FC49F9C31CD605439F0	4/27/2018	4/27/2028
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G3	074541ECDF88ED992ED5ADE3ECDDEF27A26BA1B44480A195C0A8DADAE2521D8E	11/5/2013	5/20/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=GeoTrust Inc./CN=RapidSSL CA - G2	0DCDC07ECABB8BFE38A4606BA663987CDB3BD9817FC67D1DD0CF094AC8CA2787D	6/5/2013	5/20/2022
/C=JP/O=NTT DOCOMO, INC./OU=GeoRoot Certification Authority/CN=DKHS Device CA	123465EEC4092F8CF7ABFE92B8C701AC09EA79A498F1D3F6A02C1714F39A8423	8/12/2009	5/19/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 384 bit SSL CA	14214583E5F49CE2DB88B93CFE3F7D81B678C86AFBCA9240BAA4B9E4CE90BF2C	12/20/2012	12/19/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Assured ID Client CA G3	14FAFCA84BDB8B0EC32719272BE730FE18D6FC29301C5CF789400596EC429AFE	9/23/2019	9/23/2034
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Extended Validation Code Signing CA	169DAF83C0870AB8927C99D3FC0774DDF34FBA28B02B881DCD0B633B6D71B2BA	6/7/2012	6/6/2022
/C=US/O=thawte, Inc./CN=thawte EV SSL CA - G3	1A99019F9D412A64454749EDAA8E7DC46673D644DF3CE15CC655735EA0DF86FE	10/31/2013	10/30/2023
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G4	211DDF5059229B3577760D623D5148DB92F2D0526EA5303E7EEA0300D9FAFF3F	9/8/2014	5/20/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	2E2861289B5CCEDECAE4C31BF262E0FB0C29B6C1530573442731CA65D821E901	5/12/2015	5/11/2025
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL	2E7E65BB1A013DAF0BDF6938502E43E38217FE00D76CA2F99F7AA9E298F48534	8/6/2013	5/20/2022
/C=US/O=thawte, Inc./CN=thawte EV SSL CA - G2	37F6BD9BEE0C74F608DD474B56A72F8183077DFC2662AF79BFE3D4FABCF0B1C4	10/31/2013	10/30/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	3B6D701331A8CB809443E42A732BAD675F225B15CC439ACF26A09587C885ECFD	5/12/2015	5/11/2025
/C=CN/O=TrustAsia Technologies, Inc./OU=www.trustasia.com/CN=TrustAsia Secure Enterprise Email CA	3D774B65EE95FD6EFD1C8732B57E607C9BEE423C36E46F6E1CC8CA1F0AE62E23	4/27/2018	4/27/2028



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=thawte, Inc./CN=thawte SHA256 SSL CA	3F3AF9C9CC2C7599EF8F6DD7CA516CFC1797D7D12002254F3BF0D04D0FE9DE86	5/23/2013	5/22/2023
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G3	51CF0FFFC3253FC013AF786F95B190109F8C87F34DFD1CEC44C45888789F5355	6/11/2014	5/20/2022
/C=US/O=thawte, Inc./OU=Domain Validated SSL/CN=thawte DV SSL SHA256 CA	537C5C8072363E147C84D21D0D2248B6B99A9A8A43311659835EC33926DA2860	6/10/2014	6/9/2024
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	564DBC6A76550FD2D4F4BAC6448A1157B33CBD8E0B3FD76D72107540964A85B5	10/31/2013	10/30/2023
/C=JP/O=NTT DOCOMO, INC./OU=GeoRoot Certification Authority/CN=DKHS Device CA - G2	56CBB0FFC414E88822A50E9F42D46820381D8C2AAEEF56E0566817ED30F27A27	2/10/2015	5/19/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 SHA256 Code Signing CA	582DC1D97A790EF04FE2567B1EC88C26B03BF6E99937CAE6A0B50397AD20BBF8	12/10/2013	12/9/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	59F8CB7D7E9E13CB778FF62198EBE05551B515A58BBBA2EF19C33C760C823916	10/31/2013	10/30/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit Extended Validation CA	5AD4183B54F0E2762DA8D910E1E7E9F2AB2F1BC4CE6A638F0DBBF337EB4A139F	12/20/2012	12/19/2022
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G5	5B2AE8ABF5E7E563BBC34C97A22554E82393D7ACC09C1765E504AE08C157B5AC	9/9/2014	9/8/2024
/C=US/O=GeoTrust, Inc./CN=GeoTrust True Credentials CA 3	5D74ED61D0B311E981BBCF0F419A35FA9FA1EC70FF1AEB742D73BCFEBA06CFFF	8/22/2012	5/21/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Managed PKI Administrator CA - G4	5D81D0AA3476F48A5A675D6D3E6AB766BDC8AA167A1A94D79DF91B4251082FA4	1/6/2015	1/5/2025



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit EV CA - G2	663636C03FD0B5B171F2B04407C3DF767B349C8A990D87CE485898166E2B5120	5/12/2015	5/11/2025
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 EV SSL CA - G2	6C66B76E68D6C79FAFE5C94E9B7D0CF753C715CC85387E11323B7935F861C187	10/31/2013	10/30/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Organizational CA - G4	6F6B2D4A309A156C61977FBCCF7D2AC9F59623FFCCEAC3E4EE5A83A18D895275	5/6/2014	5/5/2024
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA - G2	6FF6F63F6A0D3D63446CDA523D26273B126C02F922E05D73C4748EB89B86393	9/8/2014	5/20/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	74EB307A78AC7E8570CC1BAE1C51102A6053C96F3332D703285A743BCBD35D9E	5/12/2015	5/11/2025
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 384 bit Extended Validation CA	77FE876A1C476349F5EB9AE9BF53F7814A0AE411562667C58B7ED27869C54091	12/20/2012	12/19/2022
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL SHA256 CA	784ACA1063BE4700B3A62F45C2F93B7EEF8BF230FB869610E864FC4B3A23D09F	6/10/2014	6/9/2024
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL - G2	78DC9CA5F4C2913F3FB74AC52DFFFCD2300DA5A772FC2B84C53A2E74437EDD20	9/8/2014	5/20/2022
/C=US/O=thawte, Inc./CN=thawte Extended Validation SHA256 SSL CA	7920B8E18D2FC12D81C2FAB90A63B1B52AB329CE7CD1CB7CA094CDF9D600F492	4/9/2013	4/8/2023
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G4	8BC1B9D7DEFCCA1CCD09BACDA88F27762092F1ED4A34AE5E4602BB9CC915C506	8/29/2014	5/20/2022
/C=NL/O=Intermediate Certificate/OU=Domain Validated SSL/CN=Intermediate Certificate DV SSL CA	8C2745352289E994B3EA349445B1CF6418E51740E1614F8B5667DAD2990AAEFB	6/1/2012	5/21/2022
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G2	90AF11E577C72C940B40EC2F3D50507310091EE6196C9C16B228882264A4D808	8/27/2012	5/20/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA - G2	92EF2F5B53570607DC29C8010E7ABC16283FE355F955A248254290A260A9EBB	6/10/2014	6/9/2024
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G4	95B09D02122FA8AE6235780F6EA6503E767AC021A0874FE831CE803A50EA8FD7	10/31/2013	10/30/2023
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Assured ID Client CA G2	9E12D6E13DDD53A890A2B3A37423AE5E457731A7B34A153992F1EF1F5489A45E	9/23/2019	9/23/2034
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 EV SSL CA - G3	9E6BC5F9ECC52460E8EDC02C644D1BE1CB9F2316F41DAF3B616A0B2058294B31	10/31/2013	10/30/2023
/C=US/O=thawte, Inc./OU=Domain Validated SSL/CN=thawte DV SSL CA - G2	9F2511A23E70D95FB62798508A676CC38964100936A6E6D3CAE77154C0290F02	6/10/2014	6/9/2024
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Client CA G2	A449DBAB6D4C035FAAFD9D045891FE98ABD73D286268A8A83F854145551692E3	9/23/2019	9/23/2034
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Shared Public Organization CA - SHA1	A829444AD2FB48079A595FBB88C4E658EE2089A5E129B89AAACCE851198FFD7	7/11/2013	7/10/2023
/C=IT/O=Telecom Italia Trust Technologies S.r.l./OU=Digital Identity and Security/CN=Trust Technologies Global Client CA	AA6A2380A7E8254DAD4620AE0895DE74047F33F5268758DCF27C4D280B384A50	8/24/2017	5/10/2025
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA	ADEBF83FD3D3F9546BB77FAAB516DD9337CCF91E1198F74337769EC68E6E826E	12/20/2012	12/19/2022
/C=US/O=thawte, Inc./CN=thawte SSL CA - G2	B7A8AF2A4A43F0A86B15604DE6461209C9CD76894D8B0748BC99D9A797013BB0	10/31/2013	10/30/2023
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Client CA G3	BA361260FF1D46031686305E082DE836D4A320466E0DE9E013F00CDEDD62317	9/23/2019	9/23/2034
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA - G3	BC3F03A436240EDBA5F83714F6F677E34B37F9B1F0C08C1E558D981E279E8209	8/29/2014	5/20/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=GeoTrust Inc./CN=GeoTrust Extended Validation SHA256 SSL CA	BC9E223CC42275CC034190DF2D0179B55B732D5AC531137A7B522DCFE04A0592	4/9/2013	4/8/2023
/C=US/O=Wells Fargo/OU=Symantec Trust Network/CN=Wells Fargo Certificate Authority WS1	C21087416BBF983B9FFE40F5D56EE0FFD94EB1E666B04A532ADE482EC201D67C	8/25/2015	8/24/2025
/C=US/O=thawte, Inc./CN=thawte SHA256 Code Signing CA	C4D18E0A58E4EFFD17ED77C840B613EF15F551076EA92C2B77F6609A6C2557C7	12/10/2013	12/9/2023
/C=US/O=GeoTrust Inc./CN=GeoTrust Extended Validation SSL CA - G2	C7B57A02F937AE0BE3E21027030592C9D47A70D7013EB3AA94DBC3B7B5AB0662	8/23/2012	8/22/2022
/C=NL/O=Intermediate Certificate/OU=Domain Validated SSL/CN=Intermediate Certificate DV SSL CA - G2	D876A081FB3827BA22A4087DF675126FF8A96AAB90364BC61F62CE8E9507AA93	9/8/2014	5/20/2022
/C=US/O=GeoTrust Inc./CN=GeoTrust SHA256 SSL CA	D9E0C64AB27A64D79CCCF42A34EC75A251A7E543353C19E984A70EB2F546CFFF	5/23/2013	5/22/2023
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G2	DEDB31CBCEC5F99D38E86ECC4D76945DF40F2E547C94E4B0124094875AF6A558	6/4/2013	5/20/2022
/C=US/O=Oracle Corporation/OU=Symantec Trust Network/CN=Oracle SSL CA - G2	E4AF2FAE41187D58F209B01B1D8753C2DCCB3F601CE86273E37E8738C2A5CCB5	1/6/2015	1/5/2025
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA	E6683E88315CD1CB403C0CEA490F7C4B4C82C91CD485037489AADBAA90839F61	12/11/2013	5/20/2022
/C=US/O=Symantec Corporation/CN=Symantec SAS EV Code Signing CA	E865F583A928CCB6A7286B94E7920EE1F4998C030B438689E9583BCCD6AC5261	1/12/2016	1/11/2026
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	EAE72EB454BF6C3977EBD289E970B2F5282949190093D0D26F98D0F0D6A9CF17	10/31/2013	10/30/2023
/C=US/O=thawte, Inc./CN=thawte EV Code Signing CA	F376F6E5BF660F6BEDB768DCD1303EADD4A96F2ED7A97717E878FAE6BB5959FA	3/1/2016	2/28/2026



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Extended Validation Code Signing CA - G2	F726C8891336B1B97CBC86F596F1267FC180152122573E76D5145A7C64E2CFF7	3/4/2014	3/3/2024
/C=US/O=thawte, Inc./CN=thawte SHA256 Code Signing CA - G2	F76F0D8AD330ACFD4C5BD05A58A1CF155DE00BE2C98F4E7899BE24E80A2ABCBF	7/22/2014	7/21/2024
/C=US/O=Government of the District of Columbia/OU=Office of the Chief Technology Officer/CN=DC Government SHA2 Assured ID Intermediate CA	FB1147E7AB97A29BB9C1140ABF3DE831F4C5F60D11B90FEC999A0816375D8457	7/13/2017	7/13/2027
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Registration Authority Intermediate CA	5B690E1CD2BC0016E4DB2AABAB503745E41F86B2448F2EC06D29F24999DEBCA2	6/7/2011	6/6/2021
/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=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11/CN=Symantec Class 3 Organizational CA - G2	F5068C4293A26A0E420D02AE4BEF27008377E3E7ECD8E5CF194428162E3C40F4	3/16/2011	3/15/2021
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Admin Intermediate Certificate Authority	062A76E5196E4C6220ACA7D32AA419761101374C11866C3627D5F8A055ECE2CE	6/7/2011	6/6/2021
/DC=COM/DC=ABB/O=ABB/CN=ABB Intermediate CA 5	2534EC1BD74C3C1B7661A0E7CC28F1BDF2A82CCD3943EEAADCD8FED95055EAD1	11/15/2016	11/15/2023
/DC=COM/DC=ABB/O=ABB/CN=ABB ECC Intermediate CA 1	64017D78B5F0C04C419735D6A4A6D52EC1D20115243B0D7C74507E257FFA4A40	9/7/2016	9/7/2023



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=DigiCert, Inc./CN=DigiCert PKI Platform C2 Shared SMIME Individual Subscriber CA	55F3A359F0A26D72FF244C2EE396FD51BC2400EA250C91EFC355E2F8103C9939	6/4/2019	6/4/2029
/C=US/O=DigiCert, Inc./CN=DigiCert PKI Platform Class 3 Shared SMIME Organization CA	7F755DC2B9EE99EB02D71CB1805059AAABB5EB3E8558DCA8C09A1D0DE258D767	5/29/2019	5/29/2029
/C=US/O=Avaya Inc/OU=Avaya IT/OU=Class 2 DigiCert PKI Platform Individual Subscriber CA/CN=Avaya Client Services Users CA 2	1FFA0D1F55CE4A0507E8C38E8B557B88CBDD690D903D996B1F7850D81D6A4A93	11/26/2019	11/26/2029
/C=JP/O=Mitsubishi Electric Information Network Corporation/CN=Enterprise Premium Public CA	4A45559AD89684BB439FCD2CC4C5EC0F92EE0692CD6B9763957DE31A2F467CCA	4/29/2020	4/29/2030
/C=JP/O=Mitsubishi Electric Information Network Corporation/CN=Enterprise Premium Public CA	DF025DCE2A36411BE5EB6590C161EFD2652EC2B3F70D5C651F90D023C46F3A00	6/9/2020	6/9/2030
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Federated Trust CA	E5BBDDCAD572EC9D2DD96E0E5EBF049A9181F070F1E33CC1635AD8EC487D2177	11/18/2011	11/18/2023
/C=US/O=GeoTrust, Inc./OU=For Internal Use Only/CN=RapidSSL Enterprise CA	87AA71AF032E36BD69DAF4014FCAD8F2733AA00DEAB959335AE3866E4B6D3A1D	3/8/2011	3/5/2021
/C=US/O=Oracle Corporation/OU=VeriSign Trust Network/OU=Class 3 MPKI Secure Server CA/CN=Oracle SSL CA	C76F70980598C66A8E327E17B495A2276265C4B9A3575EFA1D550502A823D591	10/12/2010	10/11/2020
/C=US/O=GeoTrust Inc./OU=GeoTrust Authentication Services/CN=GeoTrust True Identity CA 2	FF1D35ED464063D6031C71E414262CC2310E8C547AB7F7CF2955C9E0349E533F	1/28/2011	1/25/2021
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Admin Intermediate Certificate Authority	6D0BD6E1AC0EC398EE8537906D98F378FC7AB49C1E296AF233374FA5A271DB34	6/7/2011	6/6/2021
/C=US/O=Oracle Corporation/OU=VeriSign Trust Network/OU=Class 3 MPKI Secure Server CA/CN=Oracle SSL CA	7F6889FFE8B02045E2CAC99A2F2EE4F4C2EED24934B6521872D34BF812671C4B	10/12/2010	10/11/2020
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Organizational CA - G2	05BDD9A7C6706D39D6DB1A580AAFF67D4673027B6CF01FD15367D8ED84A890F0	3/16/2011	3/15/2021



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/OU=Insattningsgaranti Service CA/CN=Symantec Class 3 Organizational CA - G3	CF6F24FFE48F8408A75CFADF2B65F8A4E4172F3B7C24C41B5B7481D24018197C	6/21/2011	6/20/2021
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Registration Authority Intermediate CA	83C935F34C50B7665409404AFE5DFA07ADCB5C7B52B2BEF0AC6E993C00545D76	6/7/2011	6/6/2021
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Organizational CA - G2	DDE4BEBF262C9D8DF5CB54FE4F5995191EAF58ADCB92FE5AED3128AC0D1916C7	3/16/2011	3/15/2021
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA	8FDA7A8813546F9A7CB065CD32D3650D5B56A2B7F942B9499AEB42A86A3E9D56	4/11/2011	4/8/2021
CN=DigiCert Universal Issuing CA; OU=www.digicert.com; O=DigiCert, Inc; C=US	622A42A28CAD83D962771D9D09BD307877D4AB513B4FE0CF2E5851E79FFA6FE	12/8/2017	12/8/2027
CN=DigiCert Global G3 Code Signing ECC P256 SHA384 2021 CA1; O=DigiCert, Inc.; C=US	DDF122E12D2BE604BEEF8A4A55C5EB802E19D5B8D8E1AF994580BD92F4A179E3	7/28/2021	7/27/2036
CN=DigiCert Trusted G4 Code Signing RSA4096 SHA256 2021 CA1; O=DigiCert, Inc.; C=US	47818F36F1DBA7D4F2A29360DB710E9BD75E3B13613618AAD45C01A10626523A	7/28/2021	7/27/2036



Timestamping CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Timestamp RSA SHA-1 2020 CA1; O=DigiCert, Inc.; C=US	B9B68325C0D7A2C036E1F2D8455C71F8076DB12A9C24DEF1574BFAD3349544B	12/17/2020	11/9/2031
CN=Symantec SHA256 TimeStamping CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	F3516DDCC8AFC808788BD8B0E840BDA2B5E23C6244252CA3000BB6C87170402A	1/12/2016	1/11/2031
CN=DigiCert SHA2 Assured ID Timestamping CA; OU=www.digicert.com; O=DigiCert Inc; C=US	CA8D0F4736454AECBEC5DEEC80998C9EBF41D06C728F3C76CCA24151BC62D463	1/7/2016	1/7/2031
/C=US/O=Symantec Corporation/CN=Symantec Time Stamping Services CA - G2	0625FEE1A80D7B897A9712249C2F55FF391D6661DBD8B87F9BE6F252D88CED95	12/21/2012	12/30/2020
/C=US/O=Symantec Corporation/CN=Symantec Time Stamping Services CA - G2	83C1EA9E9EFCA283B840E167F9EA79C4E32ACD33834F59D138FCDAB9D8806B20	10/18/2012	5/20/2022
/C=US/O=GeoTrust Inc/OU=GeoTrust TimeStamping CA/CN=GeoTrust TimeStamping CA I	D36027A85FE1EDCBA4F1BA92C3C8B37864E862D2B4A02B8FF643F582609F6A08	3/7/2006	3/7/2021
/C=US/O=GeoTrust Inc/OU=GeoTrust TimeStamping CA/CN=GeoTrust TimeStamping CA I	321DF681FB13682259A572BE65FDDB8E6C9A2CB21F945683D3B704517BC192E4	3/7/2006	3/7/2021



## ATTACHMENT C - LIST OF CAs IN SCOPE FOR EXTENDED VALIDATION CODE SIGNING

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	FF856A2D251DCD88D36656F450126798CFABA4DE40799C722DE4D2B5DB36A73A	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=Symantec Class 1 Public Primary Certification Authority - G6; OU=Symantec Trust Network; O=Symantec Corporation; C=US	9D190B2E314566685BE8A889E27AA8C7D7AE1D8AADD8A3C1ECF9D24863CD34B9	10/18/2011	12/1/2037
CN=Cybertrust Global Root; O=Cybertrust, Inc	960ADF0063E96356750C2965DD0A0867DA0B9C8BD6E77714AEAFB2349AB393DA3	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
CN=DigiCert High Assurance EV Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	7431E5F4C3C1CE4690774F0B61E05440883BA9A01ED00BA6ABD7806ED3B118CF	11/10/2006	11/10/2031



Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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
CN=Symantec Web PKI RSA Root - G1; OU=Symantec Trust Network; O=Symantec Corporation; C=US	F6BB5B7985A8736594C14679FA31603814502AAEB5F4282A69985DC84A450777	9/21/2017	9/20/2042



Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Cybertrust Global Root; O=Cybertrust, Inc	802447EE521CC666CDB7BBAE93A385E55F200D76A3D1356A85445AC4CDBED12	1/8/2014	12/15/2030
CN=Symantec Web PKI ECC Root - G1; OU=Symantec Trust Network; O=Symantec Corporation; C=US	92BB72F15EB75DE467C84B438181034BDAE9A016EC26434BEE3C9BBAD8CD8AF0	9/21/2017	9/20/2042
CN=DigiCert High Assurance EV Root CA; OU=www.digicert.com; O=DigiCert Inc; C=US	071B8B4B13AD7B2BE09FDD7FBDF3482460838098C21519B83B3150F8E919832D	8/13/2018	11/4/2022
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 2007 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G4	69DDD7EA90BB57C93E135DC85EA6FCD5480B603239BDC454FC758B2A26CF7F79	11/5/2007	1/18/2038
/C=ZA/ST=Western Cape/L=Durbanville/O=Thawte/OU=Thawte Certification/CN=Thawte Timestamping CA	6B6C1E01F590F5AFC5FCF85CD0B9396884048659FC2C6D1170D68B045216C3FD	1/1/1997	12/31/2020
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 2006 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G5	9ACFAB7E43C8D880D06B262A94DEEEE4B4659989C3D0CAF19BAF6405E41AB7DF	11/8/2006	7/16/2036
/C=US/O=GeoTrust Inc./CN=GeoTrust Universal CA 2	A0234F3BC8527CA5628EEC81AD5D69895DA5680DC91D1CB8477F33F878B95B0B	3/4/2004	3/4/2029
/C=US/O=GeoTrust Inc./CN=GeoTrust Universal CA	A0459B9F63B22559F5FA5D4C6DB3F9F72FF19342033578F073BF1D1B46CBB912	3/4/2004	3/4/2029
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 1999 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G3	EB04CF5EB1F39AFA762F2BB120F296CBA520C1B97DB1589565B81CB9A17B7244	10/1/1999	7/16/2036



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
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Transition RSA Root	0D88900DBB68C6CA5471F653FCACD407EBD7B1519046F9E0B8CED3C274FD11A1	11/6/2017	11/5/2022
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=DigiCert Transition Root G3	0F57B96FA7B31247EC39CB307D38CA2BF3B29F54AFD50A351D18533529517B46	12/8/2017	12/7/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G2	2D4FAD3455AB61397401ABBB518922F84336B67E02FC8D2DB283825C4AB981BB	11/6/2017	11/5/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G3	53A5E32ACC5714ED20C7778C655D1EE97EC07156074C8B016E2CFC73E9D2712B	11/6/2017	11/5/2022
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=thawte Primary G3 Transition Root	85743AEA6A97C13445E0824C2E1FE502B97ADD124A97EF5120FE07F55812FC33	12/8/2017	12/7/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Root G2	AADADD5A879D2EB8C41A89597291292709D42052F5B6399541C694C3B7353CD1	4/3/2018	4/2/2028
/C=US/O=VeriSign, Inc./OU=VeriSign Trust Network/OU=(c) 2006 VeriSign, Inc. - For authorized use only/CN=VeriSign Class 3 Public Primary Certification Authority - G5	D9BC973F88909696DA10833197944CA58AC4A88847779C9133374267100EEC58	11/8/2006	11/7/2021



Cross-Signed Root CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Transition ECC Root	DB98194E55B936D26E6CB3F460A262EB6CA66337E7BFF17A0BFC083251F63626	11/6/2017	11/5/2022
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=thawte Primary Transition Root	DBA1097710F3C629943C23DC7503AC82B9142825EF049F1C26538DB36B480549	12/8/2017	12/7/2022
/C=US/O=DigiCert, Inc/OU=www.digicert.com/CN=GeoTrust Primary Transition Root	F54F6CED56CF682B570A6CAEC313E9482760DE12E8F928AE30452C4C66AC761A	12/8/2017	12/7/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Trusted G4 Code Signing RSA4096 SHA384 2021 CA1; O=DigiCert, Inc.; C=US	46011EDE1C147EB2BC731A539B7C047B7EE93E48B9D3C3BA710CE132BBDFAC6B	4/29/2021	4/28/2036
CN=DigiCert Global G3 Code Signing ECC SHA384 2021 CA1; O=DigiCert, Inc.; C=US	35769D41EF436A4D63DDB00AB11C6CE968989FCDD829E7018F5DB90AC4BD3CD0	4/29/2021	4/28/2036
CN=DigiCert Global Root G2; OU=www.digicert.com; O=DigiCert Inc; C=US	0BA8C0D459B76ABC0825294F565E24F4F169D4A4819D0692D371522D297724B8	3/4/2021	3/3/2031
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 One AATL CA; O=DigiCert Inc.; C=US	419507E46D6520ECEC453A0C2B5292A099431C35E8967A6D0EE573CAAB116C71	4/29/2021	4/28/2031
CN=.NET Foundation Projects Code Signing CA2; O=.NET Foundation; C=US	D60D2D02F83920E89C0063AECA7C4630642C80EB824FFE43D9A11C250E5F51B9	7/15/2021	7/14/2031
/C=US/O=DigiCert, Inc./CN=DigiCert G5 CS ECC SHA384 2021 CA1	EDAEC94C3C0F7C3239312EAAF7B76D499410A55D0E008CB6A64779DAD3A1998	2/11/2021	2/10/2036
/C=US/O=DigiCert, Inc./CN=DigiCert G5 CS RSA4096 SHA384 2021 CA1	26A9454579B138E765087276AF42C1C206C8B2ED0DE6639D1BA992626A797A91	2/11/2021	2/10/2036
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
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=DigiCert Baltimore CA-2 G2; OU=www.digicert.com; O=DigiCert Inc; C=US	F9690880819F06CDDC082F224B207F2AF6003FB57339B8679A160FA95208D62D	12/8/2015	5/10/2025
CN=Blue Cross Blue Shield of Florida CA G2; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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
/C=US/O=Symantec Corporation/CN=Symantec SHA1 SAS Code Signing CA	F82CF9003A28693F430C7E939581097BA097C93AEE510A105D7822324F364C9A	10/8/2015	5/20/2022
CN=OFAC VPN CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=WoSign EV Code Signing Pro CA; O=WoSign CA Limited; C=CN	F6DFDED61FF88EF10B9E6DCFBCE0F1615E05866CEBAFCD6D48AEE80132C70347	5/23/2017	5/23/2027
CN=DigiCert SHA1 Code Signing ICA VRSN PCA3-G1; OU=www.digicert.com; O=DigiCert, Inc.; C=US	F6A54A76C4A0B529ADC8D457B503A7B3ADF8B0AEEA8EE72D0FEFD2372E8199B	5/9/2019	8/1/2028
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=DigiCert Federated ID L4 CA; OU=www.digicert.com; O=DigiCert Inc; C=US	EFB2A3F37273D3589047919825EA5337E9B938A8C178B61C18C2B4270B9665AC	10/30/2012	10/30/2022
CN=DigiCert EV Code Signing CA (SHA2) G2; OU=www.digicert.com; O=DigiCert Inc; C=US	EDCD88B6BD77FC8A2680E2ECB8FFBAC45898DFA0FDE983425E0F1BEB058C04B6	7/18/2018	7/18/2028



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=ADACOM Class 2 CA - G4; OU=Symantec Trust Network; O=ADACOM S.A.; C=GR	EC28782BFB997875946D078C3A9C6481D34D5F775D29F0F8CB80010C9331398	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	EAEFEB08D568E7F6CF6D892CAB6A22E14F20C6F10E3A418CFB42B12309333367	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=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=OFAC VPN CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=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=TERENA Personal CA 3; O=TERENA; C=NL	DD4E0C17900F3FC2A5B7B773AE40218AD73216B5CE5D285EBFFCE8830D0F034A	11/18/2014	11/18/2024



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	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=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=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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)10, Class 2 Managed PKI Individual Subscriber CA; O=Bridgewater Associates, LP.; C=US	D8E79EBED997B764E6D0DF624F2DBB4EFF2A1B6049C6F1A1A1E88263C43DB221	10/12/2010	10/11/2020
CN=Symantec Japan Class 1 CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	D6A3574E4C2AA2D15397D5A9BEFCF8380910CC0148BAB86A0B9FF40E2659BCE8	4/15/2014	4/14/2024
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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=Symantec Class 1 Individual Subscriber CA - G4; OU=Symantec Trust Network, Persona Not Validated; O=Symantec Corporation; C=US	CF47B370761E9CA40096CDB0C34B61429957E410780339A0D005D73E371204E	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=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=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=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=DigiCert EV Code Signing CA (SHA2); OU=www.digicert.com; O=DigiCert Inc; C=US	C7460B0EDDA1B44C8E2164B234EBECC3962A6A37A936B74A6E7D46682938F084	4/18/2012	4/18/2027
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=DigiCert SHA2 High Assurance Code Signing CA; OU=www.digicert.com; O=DigiCert Inc; C=US	C51B83A0DE49A201A5FBE947032C04702F8CA7C2D02ADF28B73D42C8ACD1C362	10/22/2013	10/22/2028
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=Oracle Root CA; OU=VeriSign Trust Network; O=Oracle Corporation; C=US	C40469CF7C6561AF3288E2FFDD439AC4F0C9CEA933597C07D0D510FC820282AD	2/8/2011	2/7/2021
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=Symantec Class 3 Extended Validation Code Signing CA - G3; OU=Symantec Trust Network; O=Symantec Corporation; C=US	C267DC115D57DD0226279B346DF1953DD2C07A85CB48A0D899FD5724F5AF681F	5/12/2016	5/11/2026
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=Indian Health Service-RPMS DIRECT Messaging CA; OU=directihs.net; O=Indian Health Service; C=US	C07E9037CB81012D3046613285C14B63A0284964A4F5A821FC3B18ECDEBA0A66	4/4/2014	4/4/2024
CN=Axesson Direct CA; OU=www.axesson.com; O=Axesson Inc.; C=US	BF4655F16AA338D7C7FF2BDC949A524BD4797B8B3C8341C608C9F65CB1CB8177	1/8/2014	1/8/2024
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	BEAF46D0FF62645F56BE11830DDEF663379619F337E85713491C83AE179481D	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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=SCF Arizona CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=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
CN=AAMC Direct Intermediate CA; OU=AAMC Direct Messaging; O=Anne Arundel Medical Center; C=US	BB1C01E884DD0919AB94D5AF5575CD6FEB71E560B2B58735A78B150A10D54BF3	5/28/2015	5/28/2025
CN=Goldcorp Class 2 Certificate Authority; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Goldcorp Inc.; C=CA	B97867E65B805D78153D5349389C7E54695A45DDB2A4A015CAD8069C63FCF669	9/15/2011	12/31/2021
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=CompuGroup Medical Certificate Authority; OU=IT; O=Compugroup Medical, Inc; C=US	B604026A3590392ABEFB6B18E8176453656115D2A0060F713E191A9FD076532A	12/8/2015	12/8/2025
CN=Cosapi Data Public CA - G2; OU=Symantec Trust Network, Class 2 Managed PKI Individual Subscriber CA; O=Cosapi Data S.A.; C=PE	AFCDD78EBA95C0801A2FEBAE6F695D469AF346215C5A3E554F161D23C4BB40F91	5/12/2016	5/11/2026
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=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=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=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=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=BT Class 2 CA - G2; OU=VeriSign Trust Network; O=British Telecommunications plc; C=GB	A0BD4E39E6FE415F8B1ABA4773C3EA60905ED61F8EA27875CC03E9A94D441CB6	6/13/2008	6/12/2023



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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=INTEGRIS Direct Intermediate CA; OU=INTEGRIS DIRECT Messaging HISP; O=INTEGRIS; C=US	97D276C5FDF2DC94539ABB9E17BC3995730CD51739EAE95B0F67B39E99905F11	11/18/2014	11/18/2024
CN=NCC Group Secure Server CA G3; O=NCC Group; C=US	963056B0D941D9DBE27AC778053D85E43CC79F476AD34CFDD799C27E381840EB	7/30/2014	7/30/2029
CN=DigiCert Secure Server CA; O=DigiCert Inc; C=US	94D4ECE2ED9A5457B969A13B260489E9A5FE4790A041F27A3EB4126C84418EF9	3/8/2013	3/8/2023
CN=DigiCert Assured ID CA G2; O=DigiCert Inc; C=US	93C381CB07B353A920C2A7BED6BEBF195C68279DD0527D37F20BDD0D99C330FA	8/1/2013	8/1/2028
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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=GeoTrust Code Signing CA - G2; OU=www.digicert.com; O=DigiCert Inc; C=US	8D7C499D7FE9EEEC05D9EB42F03EFE402807919803E8E6CD6C1F2BF5EF6A7D8F	7/18/2018	7/18/2028
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=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 <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa (c)11</a> , 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 <a href="https://www.verisign.com/rpa(c)10">https://www.verisign.com/rpa (c)10</a> , 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=Optioncare CA; OU=Orion Health Direct Secure Messaging; O=Optioncare; C=US	89CFBC8FBFF7FE026B6CF2EA688419BDE8BBC1FB451329C865D6C6CBCF6BD097	3/1/2016	3/1/2026
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=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=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=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=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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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	765A29596F5F74EEA3BDAC0670E7DF42BFDB708765AD4F892FEEF714C214E7AE	4/26/2016	4/25/2021
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=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=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 <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa (c)11</a> , 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=CDC Secure Data Network CA G2; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa(c)10">https://www.verisign.com/rpa (c)10</a> , 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 <a href="https://www.verisign.com/rpa(c)11">https://www.verisign.com/rpa (c)11</a> , 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=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=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=GREEN SHIELD CANADA CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=BHP Billiton Group Operations Pty Ltd Secure Email CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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
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=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=DigiCert Assured ID CA G3; O=DigiCert Inc; C=US	634FDF26C994E76A2918D9EFC4CAB9C6FCB344EF642A79C89192BCDA0ED52F4C	8/1/2013	8/1/2028
CN=Postecom CS5; OU=Servizi di Certificazione; O=Postecom S.p.A.; C=IT	61A01EA7E8D8016CCECF92FF13E3DBE082E0779C4CB64BF6F0C316258D6210F5C	4/26/2016	4/26/2023
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=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 Governmental Direct CA; OU=www.digicert.com; O=DigiCert Inc; C=US	5F665CBACC1E37171EA83EA85C570F9861CAF77BAC8886ABC4BB19B3698C094A	9/25/2015	9/25/2025
CN=Abbott Laboratories Secure Code Signing CA; O=Abbott Laboratories Inc.; C=US	5F1A82C09CBAE239D4E3F0704C970755547E53E3CF290F9479FE7E98665FEF0F	6/7/2016	6/7/2026
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=DigiCert High Assurance CA-3; OU=www.digicert.com; O=DigiCert Inc; C=US	57D8D5B832616B7823466A0C372770D16A5DCF246581F0F58373E51C7E1E5316	4/3/2007	4/3/2022
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=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=DigiCert SHA2 Assured ID Code Signing CA; OU=www.digicert.com; O=DigiCert Inc; C=US	51044706BD237B91B89B781337E6D62656C69F0FCFFBE8E43741367948127862	10/22/2013	10/22/2028
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	4F5C36419568CB1E7084FB82DACDD1015ADB1D57B5C3E3F17F7F7CA092977432	6/19/2012	6/18/2022
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=Sonavation IoT CA; OU=sonavation.com; O=Sonavation, Inc.; C=US	4C56CA7A3C10EB58765E0FFCF8035C57C9F3BDB014862F676756CF789193F10E	5/19/2015	5/19/2025



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=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=Plex Devices High Assurance CA; O=Plex, Inc.; C=US	48A7C9C5A36734FC9E204D63CE6BBBCD9E21C1978604760CD8D30D6F4C67B67C	1/14/2015	1/14/2025
CN=DigiCert ECC Secure Server CA; O=DigiCert Inc; C=US	458446BA75D932E914F23C2B57B7D192EDDBC2181D958E1181AD5251747A1EE8	3/8/2013	3/8/2023
CN=SCHIE Direct CA; OU=SCHIE Direct Messaging; O=SCHIE; C=US	443C8158264710C0B768A8170E59BF1FAE4079D2BC39939A79FA839174ED81AE	6/7/2016	6/7/2026
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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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=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 Assured ID Code Signing CA-1; OU=www.digicert.com; O=DigiCert Inc; C=US	3C8B0D5C2ADF2F7090A9B8FF452A4141833DEAA05B5F44E9513DB94BFD1D6BD	2/11/2011	2/10/2026
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=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=DigiCert EV Code Signing CA; OU=www.digicert.com; O=DigiCert Inc; C=US	376377FD1FAF4B8A5B1472647A70B941039A62D74CFE99447E48616F8D63A978	4/18/2012	4/18/2027



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=MobileMD Direct Intermediate CA; OU=MobileMD; O=MobileMD Health Services; C=US	33CF1F5C9396D7EE9E8283B2E76F400E50450575EB15AD02C956C1C5575B184D	10/21/2014	10/21/2024
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=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=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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=ServiceMaster CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11, Class 2 Managed PKI Individual Subscriber CA; O=The ServiceMaster Company; C=US	2E26D155C1B812404C41E7360CF1D93D4664AE267274F64B8114BBE7981E83B2	8/2/2011	8/1/2021
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=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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11, Class 2 Managed PKI Individual Subscriber CA; O=Blue Cross Blue Shield of Florida; C=US	2B6B476D7B6F01188226DC5A735AB94427B7000D31FFF9678E9E704A8BF4BB2	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=DigiCert Grid Trust CA G2; OU=www.digicert.com; O=DigiCert Grid; C=US	28CBB4E0D9C4EE6D04AC8F14717605AE3A4BD8CBF8D081B27AF6EDB2F3D76A32	1/8/2014	1/8/2029
/C=US/O=Symantec Corporation/CN=Symantec SAS Code Signing CA	279A055E2C41A9105FDFD26343229D0D38125872455C43344DDEBCAE5A0BF736	3/6/2014	5/20/2022
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=CrossCert Class 2 CA - G3; OU=Symantec Trust Network; O=KECA, Inc.; C=KR	25A0B8C9773E4460E19971EF781BE81BDB7704ED5E486B267866A3AB6C2C0D44	6/4/2015	6/3/2025
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=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=Huntsville Hospital System CA; OU=Orion Health Direct Secure Messaging; O=Huntsville Hospital System; C=US	20E3E88747A8D88E11A527521032DC8CAE92BC33B45C93EEE04F624A70DC920A	3/5/2014	3/5/2024
CN=Symantec Class 3 SHA256 Code Signing CA - G2; OU=Symantec Trust Network; O=Symantec Corporation; C=US	2042E38FC57388F1DB3222C7AB5BE11C6EDB7E454BF45487AE44FF2D6A2B7645	7/22/2014	7/21/2024
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=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=DigiCert Grid Trust CA; OU=www.digicert.com; O=DigiCert Grid; C=US	1E0A3AB993157717281D42ABF801EB64DEED500E4168CA706D6A71D8103C73A2	12/7/2011	12/7/2026



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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=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=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=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 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 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



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=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=BHP Billiton Group Operations Pty Ltd Secure Email CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=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=CertiSur Class 2 CA - G3; OU=Symantec Trust Network; O=CertiSur S.A.	041E70B7DDDD0F2F90F285C4C71E0E20533312A10773794A21B5791EC8755958	8/18/2015	8/17/2025
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



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
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
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 High Assurance Code Signing CA- 1; OU=www.digicert.com; O=DigiCert Inc; C=US	007D2C8B15786232BAC0EAA31F60AAE06DC572921BAD0D46C77107D8C2DCA4B3	2/11/2011	2/10/2026
CN=Volvo Car Corporation CA; OU=VeriSign Trust Network, Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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 <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (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=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11/CN=Symantec Class 3 Admin Intermediate Certificate Authority	F71B3E31B6CE7D735E781DB156CDD77F993A3B7A14195058D9A6D15C0A97C3B3	3/3/2011	3/2/2021
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11/CN=Symantec Class 3 Registration Authority Intermediate CA	CFA1F19379D9F0A3FC8D44064966B69712760AE47591D8651B7633175469A8A7	3/3/2011	3/2/2021
/C=US/O=Google Trust Services/CN=GTS CA 1D3	92C0FB93FB7CA0A1A33C193F1B1CD1CABD2E40DEBA40278A0BB103F75B8640C7	5/29/2018	5/28/2021
/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	A75939F270BA6F23ECEEE83C70A3755EB46449FE2707FF01D626FB745158F9413	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=CN/O=TrustAsia Technologies, Inc./OU=www.trustasia.com/CN=TrustAsia Secure Email CA	047217772051D292238F3355F5C5435E9B84364CCD143FC49F9C31CD605439F0	4/27/2018	4/27/2028
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G3	074541ECDF88ED992ED5ADE3ECDDEF27A26BA1B44480A195C0A8DADAE2521D8E	11/5/2013	5/20/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=GeoTrust Inc./CN=RapidSSL CA - G2	0DCDC07ECABB8BFE38A4606BA663987CDB3BD9817FC67D1DD0CF094AC8CA2787D	6/5/2013	5/20/2022
/C=JP/O=NTT DOCOMO, INC./OU=GeoRoot Certification Authority/CN=DKHS Device CA	123465EEC4092F8CF7ABFE92B8C701AC09EA79A498F1D3F6A02C1714F39A8423	8/12/2009	5/19/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 384 bit SSL CA	14214583E5F49CE2DB88B93CFE3F7D81B678C86AFBCA9240BAA4B9E4CE90BF2C	12/20/2012	12/19/2022
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Assured ID Client CA G3	14FAFCA84BDB8B0EC32719272BE730FE18D6FC29301C5CF789400596EC429AFE	9/23/2019	9/23/2034
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Extended Validation Code Signing CA	169DAF83C0870AB8927C99D3FC0774DDF34FBA28B02B881DCD0B633B6D71B2BA	6/7/2012	6/6/2022
/C=US/O=thawte, Inc./CN=thawte EV SSL CA - G3	1A99019F9D412A64454749EDAA8E7DC46673D644DF3CE15CC655735EA0DF86FE	10/31/2013	10/30/2023
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G4	211DDF5059229B3577760D623D5148DB92F2D0526EA5303E7EEA0300D9FAFF3F	9/8/2014	5/20/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	2E2861289B5CCEDECAE4C31BF262E0FB0C29B6C1530573442731CA65D821E901	5/12/2015	5/11/2025
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL	2E7E65BB1A013DAF0BDF6938502E43E38217FE00D76CA2F99F7AA9E298F48534	8/6/2013	5/20/2022
/C=US/O=thawte, Inc./CN=thawte EV SSL CA - G2	37F6BD9BEE0C74F608DD474B56A72F8183077DFC2662AF79BFE3D4FABCF0B1C4	10/31/2013	10/30/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	3B6D701331A8CB809443E42A732BAD675F225B15CC439ACF26A09587C885ECFD	5/12/2015	5/11/2025
/C=CN/O=TrustAsia Technologies, Inc./OU=www.trustasia.com/CN=TrustAsia Secure Enterprise Email CA	3D774B65EE95FD6EFD1C8732B57E607C9BEE423C36E46F6E1CC8CA1F0AE62E23	4/27/2018	4/27/2028



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=thawte, Inc./CN=thawte SHA256 SSL CA	3F3AF9C9CC2C7599EF8F6DD7CA516CFC1797D7D12002254F3BFDD0D4D0FE9DE86	5/23/2013	5/22/2023
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G3	51CF0FFFC3253FC013AF786F95B190109F8C87F34DFD1CEC44C45888789F5355	6/11/2014	5/20/2022
/C=US/O=thawte, Inc./OU=Domain Validated SSL/CN=thawte DV SSL SHA256 CA	537C5C8072363E147C84D21D0D2248B6B99A9A8A43311659835EC33926DA2860	6/10/2014	6/9/2024
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	564DBC6A76550FD2D4F4BAC6448A1157B33CBD8E0B3FD76D72107540964A85B5	10/31/2013	10/30/2023
/C=JP/O=NTT DOCOMO, INC./OU=GeoRoot Certification Authority/CN=DKHS Device CA - G2	56CBB0FFC414E88822A50E9F42D46820381D8C2AAEEF56E0566817ED30F27A27	2/10/2015	5/19/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 SHA256 Code Signing CA	582DC1D97A790EF04FE2567B1EC88C26B03BF6E99937CAE6A0B50397AD20BBF8	12/10/2013	12/9/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	59F8CB7D7E9E13CB778FF62198EBE05551B515A58BBBA2EF19C33C760C823916	10/31/2013	10/30/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit Extended Validation CA	5AD4183B54F0E2762DA8D910E1E7E9F2AB2F1BC4CE6A638F0DBBF337EB4A139F	12/20/2012	12/19/2022
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G5	5B2AE8ABF5E7E563BBC34C97A22554E82393D7ACC09C1765E504AE08C157B5AC	9/9/2014	9/8/2024
/C=US/O=GeoTrust, Inc./CN=GeoTrust True Credentials CA 3	5D74ED61D0B311E981BBCF0F419A35FA9FA1EC70FF1AEB742D73BCFEBA06CFFF	8/22/2012	5/21/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Managed PKI Administrator CA - G4	5D81D0AA3476F48A5A675D6D3E6AB766BDC8AA167A1A94D79DF91B4251082FA4	1/6/2015	1/5/2025



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit EV CA - G2	663636C03FD0B5B171F2B04407C3DF767B349C8A990D87CE485898166E2B5120	5/12/2015	5/11/2025
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 EV SSL CA - G2	6C66B76E68D6C79FAFE5C94E9B7D0CF753C715CC85387E11323B7935F861C187	10/31/2013	10/30/2023
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Organizational CA - G4	6F6B2D4A309A156C61977FBCCF7D2AC9F59623FFCCEAC3E4EE5A83A18D895275	5/6/2014	5/5/2024
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA - G2	6FF6F63F6A0D3D63446CDA523D26273B126C02F922E05D73C4748EB89B86393	9/8/2014	5/20/2022
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA - G2	74EB307A78AC7E8570CC1BAE1C51102A6053C96F3332D703285A743BCBD35D9E	5/12/2015	5/11/2025
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 384 bit Extended Validation CA	77FE876A1C476349F5EB9AE9BF53F7814A0AE411562667C58B7ED27869C54091	12/20/2012	12/19/2022
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL SHA256 CA	784ACA1063BE4700B3A62F45C2F93B7EEF8BF230FB869610E864FC4B3A23D09F	6/10/2014	6/9/2024
/C=DE/O=STRATO AG/OU=Domain Validated SSL/CN=STRATO SSL - G2	78DC9CA5F4C2913F3FB74AC52DFFFCDD2300DA5A772FC2B84C53A2E74437EDD20	9/8/2014	5/20/2022
/C=US/O=thawte, Inc./CN=thawte Extended Validation SHA256 SSL CA	7920B8E18D2FC12D81C2FAB90A63B1B52AB329CE7CD1CB7CA094CDF9D600F492	4/9/2013	4/8/2023
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G4	8BC1B9D7DEFCCA1CCD09BACDA88F27762092F1ED4A34AE5E4602BB9CC915C506	8/29/2014	5/20/2022
/C=NL/O=Intermediate Certificate/OU=Domain Validated SSL/CN=Intermediate Certificate DV SSL CA	8C2745352289E994B3EA349445B1CF6418E51740E1614F8B5667DAD2990AAEFB	6/1/2012	5/21/2022
/C=US/O=GeoTrust Inc./CN=GeoTrust SSL CA - G2	90AF11E577C72C940B40EC2F3D50507310091EE6196C9C16B228882264A4D808	8/27/2012	5/20/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA - G2	92EF2F5B53570607DC29C8010E7ABC16283FE355F955A248254290A260A9EBB	6/10/2014	6/9/2024
/C=US/O=GeoTrust Inc./CN=GeoTrust EV SSL CA - G4	95B09D02122FA8AE6235780F6EA6503E767AC021A0874FE831CE803A50EA8FD7	10/31/2013	10/30/2023
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Assured ID Client CA G2	9E12D6E13DDD53A890A2B3A37423AE5E457731A7B34A153992F1EF1F5489A45E	9/23/2019	9/23/2034
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 EV SSL CA - G3	9E6BC5F9ECC52460E8EDC02C644D1BE1CB9F2316F41DAF3B616A0B2058294B31	10/31/2013	10/30/2023
/C=US/O=thawte, Inc./OU=Domain Validated SSL/CN=thawte DV SSL CA - G2	9F2511A23E70D95FB62798508A676CC38964100936A6E6D3CAE77154C0290F02	6/10/2014	6/9/2024
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Client CA G2	A449DBAB6D4C035FAAFD9D045891FE98ABD73D286268A8A83F854145551692E3	9/23/2019	9/23/2034
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Shared Public Organization CA - SHA1	A829444AD2FB48079A595FBB88C4E658EE2089A5E129B89AAACCE851198FFD7	7/11/2013	7/10/2023
/C=IT/O=Telecom Italia Trust Technologies S.r.l./OU=Digital Identity and Security/CN=Trust Technologies Global Client CA	AA6A2380A7E8254DAD4620AE0895DE74047F33F5268758DCF27C4D280B384A50	8/24/2017	5/10/2025
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 ECC 256 bit SSL CA	ADEBF83FD3D3F9546BB77FAAB516DD9337CCF91E1198F74337769EC68E6E826E	12/20/2012	12/19/2022
/C=US/O=thawte, Inc./CN=thawte SSL CA - G2	B7A8AF2A4A43F0A86B15604DE6461209C9CD76894D8B0748BC99D9A797013BB0	10/31/2013	10/30/2023
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Global Client CA G3	BA361260FF1D46031686305E082DE836D4A320466E0DE9E013F00CDEDD62317	9/23/2019	9/23/2034
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA - G3	BC3F03A436240EDBA5F83714F6F77E34B37F9B1F0C08C1E558D981E279E8209	8/29/2014	5/20/2022



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=GeoTrust Inc./CN=GeoTrust Extended Validation SHA256 SSL CA	BC9E223CC42275CC034190DF2D0179B55B732D5AC531137A7B522DCFE04A0592	4/9/2013	4/8/2023
/C=US/O=Wells Fargo/OU=Symantec Trust Network/CN=Wells Fargo Certificate Authority WS1	C21087416BBF983B9FFE40F5D56EE0FFD94EB1E666B04A532ADE482EC201D67C	8/25/2015	8/24/2025
/C=US/O=thawte, Inc./CN=thawte SHA256 Code Signing CA	C4D18E0A58E4EFFD17ED77C840B613EF15F551076EA92C2B77F6609A6C2557C7	12/10/2013	12/9/2023
/C=US/O=GeoTrust Inc./CN=GeoTrust Extended Validation SSL CA - G2	C7B57A02F937AE0BE3E21027030592C9D47A70D7013EB3AA94DBC3B7B5AB0662	8/23/2012	8/22/2022
/C=NL/O=Intermediate Certificate/OU=Domain Validated SSL/CN=Intermediate Certificate DV SSL CA - G2	D876A081FB3827BA22A4087DF675126FF8A96AAB90364BC61F62CE8E9507AA93	9/8/2014	5/20/2022
/C=US/O=GeoTrust Inc./CN=GeoTrust SHA256 SSL CA	D9E0C64AB27A64D79CCCF42A34EC75A251A7E543353C19E984A70EB2F546CDDF	5/23/2013	5/22/2023
/C=US/O=GeoTrust Inc./OU=Domain Validated SSL/CN=GeoTrust DV SSL CA - G2	DEDB31CBCEC5F99D38E86ECC4D76945DF40F2E547C94E4B0124094875AF6A558	6/4/2013	5/20/2022
/C=US/O=Oracle Corporation/OU=Symantec Trust Network/CN=Oracle SSL CA - G2	E4AF2FAE41187D58F209B01B1D8753C2DCCB3F601CE86273E37E8738C2A5CCB5	1/6/2015	1/5/2025
/C=US/O=GeoTrust Inc./CN=RapidSSL SHA256 CA	E6683E88315CD1CB403C0CEA490F7C4B4C82C91CD485037489AADBAA90839F61	12/11/2013	5/20/2022
/C=US/O=Symantec Corporation/CN=Symantec SAS EV Code Signing CA	E865F583A928CCB6A7286B94E7920EE1F4998C030B438689E9583BCCD6AC5261	1/12/2016	1/11/2026
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Secure Server CA - G4	EAE72EB454BF6C3977EBD289E970B2F5282949190093D0D26F98D0F0D6A9CF17	10/31/2013	10/30/2023
/C=US/O=thawte, Inc./CN=thawte EV Code Signing CA	F376F6E5BF660F6BEDB768DCD1303EADD4A96F2ED7A97717E878FAE6BB5959FA	3/1/2016	2/28/2026



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Extended Validation Code Signing CA - G2	F726C8891336B1B97CBC86F596F1267FC180152122573E76D5145A7C64E2CFF7	3/4/2014	3/3/2024
/C=US/O=thawte, Inc./CN=thawte SHA256 Code Signing CA - G2	F76F0D8AD330ACFD4C5BD05A58A1CF155DE00BE2C98F4E7899BE24E80A2ABCBF	7/22/2014	7/21/2024
/C=US/O=Government of the District of Columbia/OU=Office of the Chief Technology Officer/CN=DC Government SHA2 Assured ID Intermediate CA	FB1147E7AB97A29BB9C1140ABF3DE831F4C5F60D11B90FEC999A0816375D8457	7/13/2017	7/13/2027
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Registration Authority Intermediate CA	5B690E1CD2BC0016E4DB2AABAB503745E41F86B2448F2EC06D29F24999DEBCA2	6/7/2011	6/6/2021
/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=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at <a href="https://www.verisign.com/rpa">https://www.verisign.com/rpa</a> (c)11/CN=Symantec Class 3 Organizational CA - G2	F5068C4293A26A0E420D02AE4BEF27008377E3E7ECD8E5CF194428162E3C40F4	3/16/2011	3/15/2021
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Admin Intermediate Certificate Authority	062A76E5196E4C6220ACA7D32AA419761101374C11866C3627D5F8A055ECE2CE	6/7/2011	6/6/2021
/DC=COM/DC=ABB/O=ABB/CN=ABB Intermediate CA 5	2534EC1BD74C3C1B7661A0E7CC28F1BDF2A82CCD3943EEAADCD8FED95055EAD1	11/15/2016	11/15/2023
/DC=COM/DC=ABB/O=ABB/CN=ABB ECC Intermediate CA 1	64017D78B5F0C04C419735D6A4A6D52EC1D20115243B0D7C74507E257FFA4A40	9/7/2016	9/7/2023



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=DigiCert, Inc./CN=DigiCert PKI Platform C2 Shared SMIME Individual Subscriber CA	55F3A359F0A26D72FF244C2EE396FD51BC2400EA250C91EFC355E2F8103C9939	6/4/2019	6/4/2029
/C=US/O=DigiCert, Inc./CN=DigiCert PKI Platform Class 3 Shared SMIME Organization CA	7F755DC2B9EE99EB02D71CB1805059AAABB5EB3E8558DCA8C09A1D0DE258D767	5/29/2019	5/29/2029
/C=US/O=Avaya Inc/OU=Avaya IT/OU=Class 2 DigiCert PKI Platform Individual Subscriber CA/CN=Avaya Client Services Users CA 2	1FFA0D1F55CE4A0507E8C38E8B557B88CBDD690D903D996B1F7850D81D6A4A93	11/26/2019	11/26/2029
/C=JP/O=Mitsubishi Electric Information Network Corporation/CN=Enterprise Premium Public CA	4A45559AD89684BB439FCD2CC4C5EC0F92EE0692CD6B9763957DE31A2F467CCA	4/29/2020	4/29/2030
/C=JP/O=Mitsubishi Electric Information Network Corporation/CN=Enterprise Premium Public CA	DF025DCE2A36411BE5EB6590C161EFD2652EC2B3F70D5C651F90D023C46F3A00	6/9/2020	6/9/2030
/C=US/O=DigiCert Inc/OU=www.digicert.com/CN=DigiCert Federated Trust CA	E5BBDDCAD572EC9D2DD96E0E5EBF049A9181F070F1E33CC1635AD8EC487D2177	11/18/2011	11/18/2023
/C=US/O=GeoTrust, Inc./OU=For Internal Use Only/CN=RapidSSL Enterprise CA	87AA71AF032E36BD69DAF4014FCAD8F2733AA00DEAB959335AE3866E4B6D3A1D	3/8/2011	3/5/2021
/C=US/O=Oracle Corporation/OU=VeriSign Trust Network/OU=Class 3 MPKI Secure Server CA/CN=Oracle SSL CA	C76F70980598C66A8E327E17B495A2276265C4B9A3575EFA1D550502A823D591	10/12/2010	10/11/2020
/C=US/O=GeoTrust Inc./OU=GeoTrust Authentication Services/CN=GeoTrust True Identity CA 2	FF1D35ED464063D6031C71E414262CC2310E8C547AB7F7CF2955C9E0349E533F	1/28/2011	1/25/2021
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Admin Intermediate Certificate Authority	6D0BD6E1AC0EC398EE8537906D98F378FC7AB49C1E296AF233374FA5A271DB34	6/7/2011	6/6/2021
/C=US/O=Oracle Corporation/OU=VeriSign Trust Network/OU=Class 3 MPKI Secure Server CA/CN=Oracle SSL CA	7F6889FFE8B02045E2CAC99A2F2EE4F4C2EED24934B6521872D34BF812671C4B	10/12/2010	10/11/2020
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa(c)11/CN=Symantec Class 3 Organizational CA - G2	05BDD9A7C6706D39D6DB1A580AAFF67D4673027B6CF01FD15367D8ED84A890F0	3/16/2011	3/15/2021



Subordinate CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/OU=Insattningsgaranti Service CA/CN=Symantec Class 3 Organizational CA - G3	CF6F24FFE48F8408A75CFADF2B65F8A4E4172F3B7C24C41B5B7481D24018197C	6/21/2011	6/20/2021
/C=US/O=Symantec Corporation/OU=Symantec Trust Network/CN=Symantec Class 3 Registration Authority Intermediate CA	83C935F34C50B7665409404AFE5DFA07ADCB5C7B52B2BEF0AC6E993C00545D76	6/7/2011	6/6/2021
/C=US/O=Symantec Corporation/OU=VeriSign Trust Network/OU=Terms of use at https://www.verisign.com/rpa (c)11/CN=Symantec Class 3 Organizational CA - G2	DDE4BEBF262C9D8DF5CB54FE4F5995191EAF58ADCB92FE5AED3128AC0D1916C7	3/16/2011	3/15/2021
/C=US/O=Volusion, Inc./OU=Domain Validated SSL/CN=Volusion, Inc. DV SSL CA	8FDA7A8813546F9A7CB065CD32D3650D5B56A2B7F942B9499AEB42A86A3E9D56	4/11/2011	4/8/2021
CN=DigiCert Universal Issuing CA; OU=www.digicert.com; O=DigiCert, Inc; C=US	622A42A28CADC83D962771D9D09BD307877D4AB513B4FE0CF2E5851E79FFA6FE	12/8/2017	12/8/2027
CN=DigiCert Global G3 Code Signing ECC P256 SHA384 2021 CA1; O=DigiCert, Inc.; C=US	DDF122E12D2BE604BEEF8A4A55C5EB802E19D5B8D8E1AF994580BD92F4A179E3	7/28/2021	7/27/2036
CN=DigiCert Trusted G4 Code Signing RSA4096 SHA256 2021 CA1; O=DigiCert, Inc.; C=US	47818F36F1DBA7D4F2A29360DB710E9BD75E3B13613618AAD45C01A10626523A	7/28/2021	7/27/2036



Timestamping CAs			
Subject DN	SHA2 Thumbprint	Valid From	Valid To
CN=DigiCert Timestamp RSA SHA-1 2020 CA1; O=DigiCert, Inc.; C=US	B9B68325C0D7A2C036E1F2D8455C71F8076DB12A9C24DEF1574BFAD3349544B	12/17/2020	11/9/2031
CN=Symantec SHA256 TimeStamping CA; OU=Symantec Trust Network; O=Symantec Corporation; C=US	F3516DDCC8AFC808788BD8B0E840BDA2B5E23C6244252CA3000BB6C87170402A	1/12/2016	1/11/2031
CN=DigiCert SHA2 Assured ID Timestamping CA; OU=www.digicert.com; O=DigiCert Inc; C=US	CA8D0F4736454AECBEC5DEEC80998C9EBF41D06C728F3C76CCA24151BC62D463	1/7/2016	1/7/2031
/C=US/O=Symantec Corporation/CN=Symantec Time Stamping Services CA - G2	0625FEE1A80D7B897A9712249C2F55FF391D6661DBD8B87F9BE6F252D88CED95	12/21/2012	12/30/2020
/C=US/O=Symantec Corporation/CN=Symantec Time Stamping Services CA - G2	83C1EA9E9EFCA283B840E167F9EA79C4E32ACD33834F59D138FCDAB9D8806B20	10/18/2012	5/20/2022
/C=US/O=GeoTrust Inc/OU=GeoTrust TimeStamping CA/CN=GeoTrust TimeStamping CA I	D36027A85FE1EDCBA4F1BA92C3C8B37864E862D2B4A02B8FF643F582609F6A08	3/7/2006	3/7/2021
/C=US/O=GeoTrust Inc/OU=GeoTrust TimeStamping CA/CN=GeoTrust TimeStamping CA I	321DF681FB13682259A572BE65FDDB8E6C9A2CB21F945683D3B704517BC192E4	3/7/2006	3/7/2021