



REPORT OF THE INDEPENDENT ACCOUNTANT

To the management of Sectigo Limited (“Sectigo”):

Scope

We have examined Sectigo management’s [assertion](#) that for its Certification Authority (“CA”) operations in the locations as enumerated in [Attachment B](#), for its CAs as enumerated in [Attachment C](#), Sectigo has:

- disclosed its S/MIME certificate lifecycle management business practices in the applicable versions of its Sectigo WebPKI S/MIME Certification Practice Statement (“S/MIME CPS”), Sectigo Limited Certificate Policy (“CP”) and Sectigo S/MIME Certificate Policy and Certification Practice Statement (S/MIME CP/CPS) enumerated in [Attachment A](#), including its commitment to provide S/MIME certificates in conformity with the CA/Browser Forum Requirements on the Sectigo [repository](#), and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and S/MIME certificates it manages is established and protected throughout their lifecycles; and
 - S/MIME subscriber information is properly authenticated (for the registration activities performed by Sectigo)
- maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorized individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity

throughout the period April 1, 2024 to March 31, 2025, based on the [WebTrust Principles and Criteria for Certification Authorities - S/MIME Certificates v1.0.3](#).

The CA/Browser Forum Baseline Requirements for the Issuance and Management of Publicly-Trusted S/MIME Certificates requires compliance with the Network and Certificate System Security Requirements (“Network Security Requirements”) as set forth by the CA/Browser Forum. The relevant principle and criteria are included as part of WebTrust Principles and Criteria for Certification Authorities - Network Security, which are reported on under separate cover.

Certification Authority’s Responsibilities

Sectigo’ management is responsible for its assertion, including the fairness of its presentation, and the provision of its described services in accordance with the [WebTrust Principles and Criteria for Certification Authorities - S/MIME Certificates v1.0.3](#).



Independent Accountant's Responsibilities

Our responsibility is to express an opinion on 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.

The relative effectiveness and significance of specific controls at Sectigo 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 Sectigo's services other than its CA operations in the locations as enumerated in [Attachment B](#), nor the suitability of any of Sectigo's services for any customer's intended purpose.



Other Matter

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

Matter Topic		Matter Description
1	Certificate Status Validation	Sectigo disclosed in Mozilla Bug #1908690 that an infrastructure update resulted in 13 Subscriber status CRLs to become briefly unavailable at their respective URLs.
		Sectigo disclosed in Mozilla Bug #1891039 that it disabled CRL generation to a Root CA with an expired self-signed certificate, which also had 2 unexpired certificates cross-signed by another Root CA.

While the Sectigo assertion notes all issues disclosed on Bugzilla from April 1, 2024 through the date of this report, we have only noted those instances relevant to the CAs enumerated in [Attachment C](#) and applicable to the [WebTrust Principles and Criteria for Certification Authorities - S/MIME Certificates v1.0.3](#).

Use of the WebTrust Seal

Sectigo' use of the WebTrust for Certification Authorities - S/MIME 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

June 17, 2025



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

Policy Name	Version	Effective Date	End Date
Sectigo S/MIME Certificate Policy and Certification Practice Statement	1.0.4	March 10, 2025	-
Sectigo S/MIME Certificate Policy and Certification Practice Statement	1.0.3	March 5, 2025	March 9, 2025
Sectigo WebPKI S/MIME Certificate Practice Statement	1.0.2	August 9, 2024	March 4, 2025
Sectigo WebPKI S/MIME Certificate Practice Statement	1.0.1	August 7, 2024	August 8, 2024
Sectigo WebPKI S/MIME Certificate Practice Statement	1.0.0	August 31, 2023	August 6, 2024

Policy Name	Version	Effective Date	End Date
Sectigo WebPKI Certificate Policy ¹	1.4.0	March 11, 2025	March 11, 2025
Sectigo WebPKI Certificate Policy	1.3.5	December 4, 2024	March 10, 2025
Sectigo WebPKI Certificate Policy	1.3.4	February 7, 2024	December 3, 2024

¹ Superseded by combined Sectigo S/MIME Certificate Policy and Certification Practice Statement



ATTACHMENT B - LOCATIONS IN-SCOPE

Location	Function
Secaucus, NJ, United States of America	Datacenter Facility
Manchester, United Kingdom	Datacenter Facility
Bradford, United Kingdom	Back-end Office Support
Chennai, India	Back-end Office Support
Iași, Romania	Back-end Office Support
Kanata, ON, Canada	Back-end Office Support
Lille, France	Back-end Office Support
Alkmaar, The Netherlands	Back-end Office Support
Scottsdale, AZ, United States of America	Back-end Office Support



ATTACHMENT C - IN-SCOPE CAs FOR S/MIME BASELINE REQUIREMENTS

Root CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=AAA Certificate Services O=Comodo CA Limited L=Salford ST=Greater Manchester C=GB	D7A7A0FB5D7E2731D771E9484EBCDEF71D5F0C3E0A2948782BC83EE0EA699EF4	1/1/2004	12/31/2028
CN=COMODO Certification Authority O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	0C2CD63DF7806FA399EDE809116B575BF87989F06518F9808C860503178BAF66	12/1/2006	12/31/2029
CN=COMODO Certification Authority O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	1A0D20445DE5BA1862D19EF880858CBCE50102B36E8F0A040C3C69E74522FE6E	1/1/2011	12/31/2030
CN=COMODO ECC Certification Authority O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	1793927A0614549789ADCE2F8F34F7F0B66D0F3AE3A3B84D21EC15DBBA4FADC7	3/6/2008	1/18/2038
CN=COMODO RSA Certification Authority O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	52F0E1C4E58EC629291B60317F074671B85D7EA80D5B07273463534B32B40234	1/19/2010	1/18/2038
CN=Ensured Root CA O=Ensured B.V. L=Heerhugowaard ST=Noord-Holland C=NL	E99BA2CEF1B86154C7362AD2001C3DB99083F155769B69B6280E0BC7E8672AA4	11/11/2014	1/18/2038
CN=Ensured Root CA O=Ensured B.V. L=Heerhugowaard ST=Noord-Holland C=NL	100CF7E1373EBDAE233E5F8B1A5385FDABFEE8A31F752E33219D343DE3AFBC9C	7/23/2015	1/18/2038
CN=Sectigo Public Email Protection Root E46 O=Sectigo Limited C=GB	22D9599234D60F1D4BC7C7E96F43FA555B07301FD475175089DAFB8C25E477B3	3/22/2021	3/21/2046



Root CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=Sectigo Public Email Protection Root R46 O=Sectigo Limited C=GB	D5917A7791EB7CF20A2E57EB98284A67B28A57E89182DA53D546678C9FDE2B4F	3/22/2021	3/21/2046
CN=Sectigo Public Root E46 O=Sectigo Limited C=GB	56C9A62B261589B0F5CD71E2E2C2E569D74B51A831B7ACB6A7FA4EB238EFC2FF	3/22/2021	3/21/2046
CN=Sectigo Public Root R46 O=Sectigo Limited C=GB	E3B08CB86E2D62C9DA72992069CB0AC4ECBB5BD895581C24CD301C5756F78BF4	3/22/2021	3/21/2046
CN=USERTrust ECC Certification Authority O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	4FF460D54B9C86DABFBCFC5712E0400D2BED3FBC4D4FBDAA86E06ADC2A9AD7A	2/1/2010	1/18/2038
CN=USERTrust RSA Certification Authority O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	E793C9B02FD8AA13E21C31228ACCB08119643B749C898964B1746D46C3D4CBD2	2/1/2010	1/18/2038



Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=COMODO ECC Certification Authority O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	53612513970B9F264CA4BCC3BFD84DBC5FE774E3C6295B3EBB99EB9D74069E2A	1/1/2004	12/31/2028
CN=COMODO RSA Certification Authority O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	38392F17CE7B682C198D29C6E71D2740964A2074C8D2558E6CFF64C27823F129	1/1/2004	12/31/2028
CN=COMODO SHA-256 Client Authentication and Secure Email CA 3 O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	AD61327EE99B40613E480751B56691A096412C68F74F4012B29FA0F48BB924C9	7/6/2017	12/31/2028
CN=Sectigo Public Email Protection Root E46 O=Sectigo Limited C=GB	D14A75EED53081B7ABAFD5C2F4553E3AFB468CF655137CA865B5404A5011C459	3/22/2021	12/31/2028
CN=Sectigo Public Email Protection Root R46 O=Sectigo Limited C=GB	9582BE143B91A3144AAE6B53CAADDB399D8CF0DA22E38C39A13F5226DD5B49BC	3/22/2021	12/31/2028
CN=TrustAsia ECC Secure Email CA G2 O=TrustAsia Technologies, Inc. C=CN	9ACA5C9670937BC1DC3DE4DD0A75D2A86214549C572D50FFD3F8C8430ECAF1A7	1/10/2022	12/31/2028
CN=TrustAsia RSA Secure Email CA G2 O=TrustAsia Technologies, Inc. C=CN	4AF84168916F1B695D3CF845640FB407A655047979CC7B3BD70E12B53CE14196	1/10/2022	12/31/2028
CN=USERTrust ECC Certification Authority O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	A6CF64DBB4C8D5FD19CE48896068DB03B533A8D1336C6256A87D00CBB3DEF3EA	3/12/2019	12/31/2028
CN=USERTrust RSA Certification Authority O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	68B9C761219A5B1F0131784474665DB61BBDB109E00F05CA9F74244EE5F5F52B	3/12/2019	12/31/2028

Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=UTN-USERFirst-Client Authentication and Email OU=http://www.usertrust.com O=The USERTRUST Network L=Salt Lake City ST=UT C=US	14E384649AA401F1D1CABD5FA3D08ABE82F14B7DAE6C5615B1CD7DD41E9750E3	1/1/2004	12/31/2028
CN=UTN-USERFirst-Client Authentication and Email OU=http://www.usertrust.com O=The USERTRUST Network L=Salt Lake City ST=UT C=US	565C82702B5EC63202754D4F4B76CC3BAE32A4C9146ED3BEC73A404FFAD4CDE	1/1/2004	12/31/2028
CN=COMODO SHA-256 Client Authentication and Secure Email CA 2 O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	D86A18B5F76952B736E89A2DB3F0FDF9070711460114B6A08D649CA627935C96	6/13/2017	6/12/2032
CN=COMODO ECC Client Authentication and Secure Email CA O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	6930647342C00AE625A038673080903A6A5431A18FAE64403AEB9F4A838289B4	9/12/2014	9/11/2029
CN=COMODO ECC Extended Validation Secure Server CA O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	06C27461C0417D513CE0F634FAB5ADD30C88EF0E25C84FDE0E42125B88CA0475	4/15/2013	4/14/2028
CN=COMODO/HP Secure Email CA 2 O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	B9B8851C25F6CC35D48E1B2B77E3EBF057EDCAC9885A4177ACB5A3960458261E	11/26/2014	11/25/2029
CN=COMODO RSA Client Authentication and Secure Email CA O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	15FAC425AA84404B362FA3489EB67D055D5DA276F8685C4D698DA1830D420F0F	1/10/2013	1/9/2028



Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=COMODO RSA Extended Validation Secure Server CA O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	7E0E16C0056F41A9F4C61F571503C3BCF079E2BDD8228BF2219AC31200496B5C	2/12/2012	2/11/2027
CN=COMODO RSA Extended Validation Secure Server CA O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	CD730E53FE732D8F09D68C2CDBFD1EFD98A855F5E149021C01CB2EEE1D8186E7	2/12/2012	2/11/2027
CN=InterContinental Hotels Group RSA Client CA O=Six Continents Hotels, Inc. L=Dunwoody ST=GA C=US	8ABFFCFA7D3E09DF531A72FF164065B3A6D80A77E33CEC436EE9D3F60F84133B	9/1/2015	8/31/2025
CN=Oregon State Treasury RSA Client CA OU=Office of the State Treasurer O=Oregon State Treasury L=Salem ST=Oregon C=US	128AC11B48F4E62B2EE579E09322E39A1735E73A3D964F5E5D72271796FE0A36	3/23/2016	3/23/2026
CN=Saint Barnabas Corporation RSA Client CA O=Saint Barnabas Corporation L=West Orange ST=NJ C=US	7DA07529E65D4A2B76097A8EBAE51ACC36EC58A94CD4E918675D0174187CC46F	5/16/2016	5/16/2026
CN=Trustico RSA Client CA O=The Trustico Group Ltd L=Croydon ST=London C=GB	97221453BB214642C1DC5ABCD479FE4EEDB5F2B03944F002B81B847C39F80FEC	9/8/2017	9/8/2027
CN=United Parcel Service, Inc. RSA Client CA O=United Parcel Service, Inc. L=Atlanta ST=GA C=US	2E642C0BE13A5DE0BC6FB3EBE42A1FADDB76228D24DE4FEBB95B6C3A549533EB	2/26/2016	2/25/2026

Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=WebNIC Assured ID CA O=WebNIC L=Singapore C=SG	7CB1F0F103D4EE82D9AD41F69023C594211F5285C394E87D54BF0474622C8265	9/23/2019	9/22/2029
CN=InCommon ECC Secure Email CA 3 O=Internet2 C=US	86872ADCEBB9F15338B21DD064F969B75998372F9D7353CB5F467B4CAA8F7B24	6/5/2024	6/4/2034
CN=iTrust ECC Secure Email CA 2 O=iTrust, Inc. C=CN	2BF08AE98D63C5AC1B0FB8E5509E808EC82D7035A550E7D3F9E8ED87B8D851F0	11/6/2024	11/5/2034
CN=Lidl & Kaufland Asia ECC Secure Email CA O=Lidl & Kaufland Asia Pte. Limited C=SG	B6B73C221FD1367D5CDE49D6C53725D1F83882AB6DBE21DBA57BD29116F876D5	10/3/2024	10/2/2034
CN=Sectigo Public Email Protection CA E36 O=Sectigo Limited C=GB	F0C60046121178A15B108341B47B5F4BCA37E5C898E3239F2756DB5AA8D42BE1	3/22/2021	3/21/2036
CN=TBS Internet ECC Secure Email CA 4 O=TBS INTERNET Ltd. C=GB	2FF8F3276E98EBCB6C2E6C524BF12AA40E6B6813A88E72C4BB9D24428E7961FA	10/3/2024	10/2/2034
CN=TrustAsia ECC Secure Email CA 3 O=TrustAsia Technologies, Inc. C=CN	177AC6B42931BD7D6D5E1F1FB6EB959245750A8CEF04E7E2FBC10DB677E01BB0	5/1/2024	4/30/2034
CN=宝塔 ECC Secure Email CA O=广东宝塔安全技术有限公司 C=CN	3E057297B9E78E80991B460B1A273E4A83BE1FB0F74783CB9F81456EF1700005	11/6/2024	11/5/2034
CN=Alpiro RSA Secure Email CA 2 O=Alpiro s.r.o. C=CZ	842EE6B3C470EC556248CEE62CF52D8154D0D4DCA8D543A6AEF0D075C3F7A6BE	5/1/2024	4/30/2034
CN=CerSign RSA Secure Email CA 2 O=CerSign Technology Limited C=CN	977C4E246A4AAF8B7654FF65AE09F8DC29D051FB21E3E4EFA5627CA23804A999	5/1/2024	4/30/2034
CN=FujiSSL RSA Secure Email CA 2 O=Nijimo, Inc. C=JP	CC746668B0B09C30E20B7A1AD1A9A74986E0F45D40893C8417177520668ED08D	6/5/2024	6/4/2034
CN=InCommon RSA Secure Email CA 3 O=Internet2 C=US	94A3CF64537134D8253645099C892F42EFA9E238F40FE0EF0DC4E521E09D5756	6/5/2024	6/4/2034
CN=iTrust RSA Secure Email CA 2 O=iTrust, Inc. C=CN	964075106DE580392A907E1E2EB53237260FA31CF10D04B3CCF991B65C947EF8	11/6/2024	11/5/2034



Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=Lidl & Kaufland Asia RSA Secure Email CA O=Lidl & Kaufland Asia Pte. Limited C=SG	1BC55F92EC2BF0B80EADB2BD3AD673E8D8771BC90C3260847006452CA2494D32	10/3/2024	10/2/2034
CN=Sectigo Public Email Protection CA R36 O=Sectigo Limited C=GB	118783706A481641898904DC4C322B4A322C37ABA3ECB9C6E90E408616DC3456	3/22/2021	3/21/2036
CN=SSL2BUY EMEA RSA Secure Email CA O=SSL2BUY EMEA LLC C=AE	402654B3931F20DAB57837F2C4308B3A3326203ED1691ACFB50C0D8FAB677F65	7/31/2024	7/30/2034
CN=TBS Internet RSA Secure Email CA 4 O=TBS INTERNET Ltd. C=GB	B292BB1F11730C88A4BCD1DC10331D99448AB436747598CA67C039EFA52D012A	10/3/2024	10/2/2034
CN=The University of Texas at Arlington RSA Secure Email CA 2 O=The University of Texas at Arlington C=US	81F418BA1FA7DF8CEBAFDA10C9177847693C854774066E31D867008F17732539	2/27/2025	2/26/2035
CN=The University of Texas at Austin RSA Secure Email CA 2 O=The University of Texas at Austin C=US	6097F7F0D5492BBEF9F9815470BDDC7202A0E19F3F5C323658DE632D55125998	6/5/2024	6/4/2034
CN=The University of Texas at Dallas RSA Secure Email CA 2 O=The University of Texas at Dallas C=US	7911DA119614D2FF6E81AC9973AE366F9A7E993A81EAA1DD180DA4455D8D11D9	6/5/2024	6/4/2034
CN=TrustAsia RSA Secure Email CA 3 O=TrustAsia Technologies, Inc. C=CN	713B9480F53CBC4F26E508357175743CD66B5B2E4E59BDBC975894D607CA604	5/1/2024	4/30/2034
CN=UTHealth Houston RSA Secure Email CA 2 O=The University of Texas Health Science Center at Houston C=US	A9B25845A63DF5B4FCCDD6E23DB832AD30312231D4BD32321DC03DD56F12B3D	6/5/2024	6/4/2034
CN=UT Health San Antonio RSA Secure Email CA 2 O=The University of Texas Health Science Center at San Antonio C=US	2CDB785514360364A8116C0B7973FE89B63DA67759DB381C9E09DB3E45B81A15	2/27/2025	2/26/2035
CN=ZoTrus RSA Secure Email CA 2 O=ZoTrus Technology Limited C=CN	E090D357F57E9C5BECB627C685D923331700D1F7EDD72FEC57562C0C00D50A27	5/1/2024	4/30/2034
CN=宝塔 RSA Secure Email CA O=广东宝塔安全技术有限公司 C=CN	574D448F0E99C5F4A3F1C3866D18A78A3F455030EBB48451965D15502E471A91	11/6/2024	11/5/2034



Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=CATrust ECC Secure Email CA O=Zhejiang Xinya Network Technology Co., Ltd. C=CN	96F8E8481B183A57869FAD06B772236E502BD07D0330F0F8263C168B9A1B2CF2	2/24/2023	2/23/2033
CN=CERTDATA SMIME OV ECC CA [Run by the Issuer] O=CERTDATA SERVICOS DE INFORMACAO LTDA C=BR	25640E60EAB2D51FFFC43776F087B00B3A73C8539AE8440A1CBD014873FE882C	3/5/2020	3/5/2030
CN=Certera ECC Client CA O=Certera C=US	D8E21819093910D45CDFB83C92DC3478154CFCE419A8211D68A92906FE8EE79E	9/7/2022	9/6/2032
CN=cnTrus Client - ECC O=Zhejiang Huluwa Digital Certification Co., Ltd. C=CN	0B461FC077482B83E101E4E9D8379A0D34D7584E516C4F9809080F0CEF1D48EF	8/24/2022	8/23/2032
CN=cnWebTrust Client - ECC O=cnWebTrust Inc C=CN	EEFCBAEB86D003EC1B12FE6A8A2A7C8531F3BDCE64D913893F38BAF9AA2316B1	6/6/2022	6/5/2032
CN=CTI ECC Secure Email CA O=Centre Testing International Group Co., Ltd. C=CN	9D3C4DB6184033EAFCB1E85EA74F693E47992B18E2165E7A6D8D5D1FB000FDD4	8/2/2023	8/1/2033
CN=DigitalTrust Assured CA G3 [Run by the Issuer] O=Digital Trust L.L.C. C=AE	6F01CE4B96A54F3BF6F3B3F01BC1452902E8066F7EF47A0471D99489CC2F844C	1/8/2020	1/7/2030
CN=E-SAFER ORGANIZATION SMIME OV ECC CA O=E-SAFER CONSULTORIA EM TECNOLOGIA DA INFORMACAO LTDA C=BR	EF50FAF5410B03444B7C4D988A092A1616DBC9F9B145AC0094253D54132C480A6	10/22/2021	10/21/2031
CN=GEANT eScience Personal ECC CA 4 O=GEANT Vereniging C=NL	6021D4A3CDEBD98D5298235F5881F4B969D71D43F3EE3DF156BF23630B07AE3B	2/18/2020	5/1/2033
CN=GEANT Personal ECC CA 4 O=GEANT Vereniging C=NL	B1A8FD40B437DED972F574370622E2BBB2F9B9593BC0504D7E2030F2B24E67FA	2/18/2020	5/1/2033
CN=GeoSSL ECC Secure Email CA O=GeoSSL C=CN	7E545BC65287101D31DAA7C56306E3262221ACC97AB74157D1F2113DFAF10CA8	11/11/2022	11/10/2032



Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=InCommon ECC Standard Assurance Client CA 2 O=Internet2 C=US	9D5CE3B704A1143130BC8E7AE62C69FEC11BFBE829493955BF5865FB54FD9131	11/16/2022	11/15/2032
CN=iTrust ECC Secure Email CA O=iTrust, Inc. C=CN	506B33503BB6F79424F8249CFEFB0351C3677C00A20E17AB645732677AB506B7	11/6/2024	11/5/2034
CN=Omit Security ECC Client Authentication and Secure Email CA O=Omit Security, Inc C=US	9C99A8D9D756D74ED28B4D27200C1CEB0517F8394674A7C25DD632F5F3EE52B4	4/7/2021	4/6/2031
CN=PSW GROUP (ECC) Secure Email CA O=PSW GROUP GmbH & Co. KG C=DE	FDC3F88D56AC359DEBAE391BB33F721D1584FF842E02E1A880CCFA03BE4B622D	1/25/2021	12/31/2030
CN=RZTrust ECC Secure Email CA O=Zhongxiong Century Credit Co., Ltd C=CN	5509CC40B117A79A0AC2DAC5C2A456A377AAB314B47C94427086DE590D604F8D	8/2/2023	8/1/2033
CN=Sectigo ECC Client Authentication and Secure Email CA O=Sectigo Limited L=Salford ST=Greater Manchester C=GB	91DA7A5CA6134875008994C250DAD9221F0C5E2D4E3E0973F7961DCBDFB743EC	11/2/2018	12/31/2030
CN=Sectigo Partners - Client Authentication and Secure Email - ECC O=Sectigo Limited C=GB	EAC0134370C9FFABFC7AEB5FD03C2516290FAE5585081C40A08F19C89AB7BF5B	3/20/2020	1/18/2038
CN=Sectigo Public Email Protection Root E46 O=Sectigo Limited C=GB	BFC1593F5055ACB4878D26BA8CCA46689A7AF3AF12ADF9C55752DCE53E9D53E5	3/22/2021	1/18/2038
CN=sslTrus ECC Secure Email CA O=sslTrus C=CN	9295C105C28085A1C388CC5F24CD917292009DD71A917499F75E8EEEEB02EEEE7	8/2/2023	8/1/2033
CN=TBS X509 CA Persona 3 (ECC) O=TBS INTERNET Ltd. L=Douglas ST=Isle of Man C=IM	6A2B458ECA204B2DDABF4E26D46FD0F9BBE867DA7AAC35532513A6E5A4FCCA58	6/13/2019	6/12/2029



Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=USERTrust ECC Client Authentication and Secure Email CA O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	52DFD735D4ADA4AEACB2D77968F9711143FB0C3C5A83B50AC4DEB987A878E509	9/12/2014	9/11/2029
CN=USERTrust ECC Extended Validation Secure Server CA O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	E81443141E3C1232D06465E11BBD1F6CA7181A3E037F815BB8FAAEADE6BEBED1	4/15/2013	4/14/2028
CN=XinChaCha Trust Client - ECC O=Beijing Xinchacha Credit Management Co., Ltd. C=CN	6F4504EABC24E8A53E8F7CAD1A3D9D85FACFC3DF59EF5611B94C0143BDEADF87	8/24/2022	8/23/2032
CN=ZwTrus ECC Client CA O=北京中万网络科技有限责任公司 C=CN	ADB1D9561FF1C7D6FB704C8DBF8D59862D37BDA89DB0CEA7D1FD347B3637B953	6/6/2022	6/5/2032
CN=时代互联 ECC Secure Email CA O=广东时代互联科技有限公司 C=CN	E28C33D74EB5C3EA936AE55A5CBC4F1EBA9C604404032FB33DBF158D6AC821E5	8/2/2023	8/1/2033
CN=纳网 ECC Secure Email CA O=厦门纳网科技股份有限公司 C=CN	406D1BF5BEFEDFFADBA368FB6AE22E86C81B66AF0C99B15DA6769452726F6C60	5/20/2023	5/19/2033
CN=AlpiroSSL RSA Client Authentication and Secure Email CA O=Alpiro s.r.o. C=CZ	90169B80422D6912C386D15307FB822DB6DA15288122E18C22200F52E24A4768	10/6/2020	10/5/2030
CN=BitCert SHA2 Assured ID CA O=BitCert L=Chengdu ST=Sichuan C=CN	D20A40BB1B054D1C741CF6F404705436851F468FC0A45564941CC7C7F74A126F	6/7/2019	6/6/2029
CN=BlackCert, Inc. RSA Client Certification Authority O=BlackCert, Inc. L=Denver ST=CO C=US	FF912D5403FDA6CBB1A724BEB60B4AD1B4F9BE594525EE1F16488C039F38D2EE	7/17/2015	7/16/2025



Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=CATrust RSA Secure Email CA O=Zhejiang Xinya Network Technology Co., Ltd. C=CN	2B72C23B951762C7B24C45D08976587EA30FBCBF6623728CEFF50532929F51B2	2/24/2023	2/23/2033
CN=CerSign Client CA O=CerSign Technology Limited C=CN	69DF64756EDCA83537061221167F4DE6E30A6BD94B978FC99CA52659D6D06A7C	9/13/2021	9/12/2031
CN=CertAssure RSA Client Personal ID CA O=CertAssure Inc. L=San Jose ST=CA C=US	79D778924FD08F715312E57E107566A8161EA1E68649BD45EA89184AA62EA31E	10/14/2014	10/13/2024
CN=CertCloud Secure Client and Email CA O=CertCloud Pte. Ltd. C=SG	EE8F9D8A9FD7C895EF786233187397F7433291F0BE7F8850A7CFB581E29B28F5	8/18/2020	8/17/2030
CN=CERTDATA SMIME OV CA [Run by the Issuer] O=CERTDATA SERVICOS DE INFORMACAO LTDA C=BR	492EEE8B3AA6EAC08C2B78A976F133E7E23A1439210807DC4C734F935AFA5BA	3/5/2020	3/5/2030
CN=Certera Client CA O=Certera C=US	8004EE3237B9CC853DF9E865307D9BCE11AA3867791849E5CB22F9E634735403	9/7/2022	9/6/2032
CN=CloudSecure RSA Secure Email CA 2 O=CloudSecure Corporation C=JP	5DC9A4589C91E992B435F5381A293C56DA845944315D063A3921651FA270A3ED	1/31/2024	1/30/2034
CN=cnTrus Client O=Zhejiang Huluwa Digital Certification Co., Ltd. C=CN	CDA1086879F99D1F4199789C034E7D313F02CFDDF3338E15EAB786DC374B3052	8/24/2022	8/23/2032
CN=cnWebTrust Client O=cnWebTrust Inc C=CN	9D913DBCE26C78BA5566B397B951995962CB21188AB7441218F54F375EBF0941	6/6/2022	6/5/2032
CN=CSP SSL Service CA 6 O=CENTRAL SECURITY PATROLS CO., LTD. L=Shinjuku-ku ST=Tokyo C=JP	5814E6CB54EAE95343D859992A01630F592B155AF1752431E3C1BF3B05562650	9/10/2014	9/9/2024
CN=CTI RSA Secure Email CA O=Centre Testing International Group Co., Ltd. C=CN	19D5253ED841FC1034D04DE4A052474E981DF09B21E688C60F02AAFABF82BEBF	8/2/2023	8/1/2033

Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=Digi-Sign CA Digi-ID O=Digi-Sign Limited L=Dublin ST=County Dublin C=IE	A5EB07B421DFCFED6A9C5E2E72AE7105E29AC8675A896B2B5228E355761FAFB6	11/7/2014	11/6/2024
CN=DigitalTrust Assured CA G4 [Run by the Issuer] O=Digital Trust L.L.C. C=AE	75841695C600040660A3D3725E531D3DCFAFCCD26F588375EAB2D8D129904785	1/8/2020	1/7/2030
CN=Don Dominio / MrDomain RSA Client CA O=Soluciones Corporativas IP, SL L=Manacor ST=Illes Balears C=ES	CE8E10501CD188D227EF74AD0A342D977643BD2DE3F217161B5ED2FFB05811A7	2/16/2018	2/16/2028
CN=eMudhra RSA Client Authentication and Secure Email CA O=eMudhra Technologies Limited L=Bengaluru ST=Karnataka C=IN	25B749D722B0FC884E69CF5A7EAA1B0B1FEF1E259D6D07F08B798E6FEF823E02	5/14/2019	5/13/2029
CN=E-SAFER ORGANIZATION SMIME OV CA O=E-SAFER CONSULTORIA EM TECNOLOGIA DA INFORMACAO LTDA C=BR	F24CB28D6FFFBEE4C86C8DEF07E07DAB1E586F7FE80E935C4EB182A1524982B68	10/22/2021	10/21/2031
CN=EUNETIC RSA Secure Email CA 3 O=EUNETIC GmbH C=DE	0B98958EE95A760D28B6955C04EA91FC2802561F15ACD12FF4D91DBA584087AB	8/2/2023	8/1/2033
CN=EuropeanSSL S/MIME CA O=EUNETIC GmbH C=DE	F3D55C767D12070AE8E7B316633FEA54AF05494BF56529A6FADB939A8A2C4D2F	8/4/2021	8/3/2031
CN=FujiSSL RSA Client Authentication and Secure Email CA O=Nijimo K.K. L=Shibuya-ku ST=Tokyo C=JP	A6199561539C4A8AB019EB136B3FD0D7690175D41AE7F58A3BF48A1F0B132828	5/15/2019	5/14/2029
CN=GEANT eScience Personal CA 4 O=GEANT Vereniging C=NL	D0382AC5819F95AD10238CBE6E3C4ED3D8241CD954D2653FEA470AC9F390CD4D	2/18/2020	5/1/2033
CN=GEANT Personal CA 4 O=GEANT Vereniging C=NL	16D9DE945A428011FA3A08323DA0E4347438F5AF1CE3E80283223E25A46C2A9E	2/18/2020	5/1/2033

Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=Gehirn Managed Certification Authority - RSA Digital ID O=Gehirn Inc. L=Chiyoda-ku ST=Tokyo C=JP	A9BAEB6F3814B4C34310DA84DED3AC382DA012B84D207D4A39B1671CF581F4C1	3/16/2018	3/15/2028
CN=GeoSSL RSA Secure Email CA O=GeoSSL C=CN	E9EF6F1255576125BC20733BC1D6C690763EC7B97CD6ECB5689B516A34BB8E86	11/11/2022	11/10/2032
CN=Global Trust CA - Client O=Global Digital Inc. C=TW	4C08C2FBA948D4843714B633A18126B2417038D7B745DA41ED15EAA7AAE7C599	1/8/2020	1/7/2030
CN=GoGetSSL RSA Client CA O=GoGetSSL L=Riga C=LV	42E0C05A00FC2E473D8D076EFB44A7017CEFFBF604062B16ACB644EEAE1EFFFC	9/6/2018	9/5/2028
CN=InCommon RSA Standard Assurance Client CA 2 O=Internet2 C=US	AE0F9632B069A41094F10FFFF9DA6DE76865A55B68DC964E7C90FC7493EFFE5E	11/16/2022	11/15/2032
CN=InCommon RSA Standard Assurance Client CA OU=InCommon O=Internet2 L=Ann Arbor ST=MI C=US	64991B6986B22CF00649DAF8FA922ED9A14DC8305CCE7CD8372CBF4865E6AF35	9/19/2014	9/18/2024
CN=ISSAuth RSA Client Authentication and Secure Email CA O=INTEGRITY Security Services LLC C=US	BC26C6D439E39005659A239F57CA715AA0DF27F6D1ADDBB8D5DDF9BA6224B185	9/25/2020	9/25/2030
CN=iTrust RSA Secure Email CA O=iTrust, Inc. C=CN	973F0A984FC266FD43B443206149DFCF813E0A570E6D617D85460EF60ACD9654	11/6/2024	11/5/2034
CN=MarketWare RSA Secure Email CA 3 O=MarketWare - Soluções para Mercados Digitais, Lda. C=PT	21671C54467AA9B0049502E440370006D48EC81A2B034DFEFF3EBF6BA509C348	8/2/2023	8/1/2033

Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=MarketWare Secure Email / Client Authentication CA 2 O=MarketWare - Soluções para Mercados Digitais, Lda. L=Lisboa ST=Lisboa C=PT	FBF777AC8CDDCF7993EF3924FF8CD09F95FB167390A78CC1F3C852C1F15A66D3	10/27/2014	10/26/2024
CN=McAfee Client/Email CA 2 O=McAfee, Inc. L=Santa Clara ST=CA C=US	CE10391216ADA46C376B7333715777A792D8D422BD7C5E06FE2EB795A00DC7EC	10/27/2014	10/26/2024
CN=McAfee RSA Secure Email CA 3 O=McAfee, LLC C=US	BC0C07C421B489419BFEEB2A50D74E615B7CD7AA5D83CA95378143B6D923BF61	10/26/2023	10/25/2033
CN=MeSince Secure Email CA [Run by the Issuer] O=MeSince Technology Limited C=CN	FD47CB2304786DA24F849FCA88AC5CAD4B9FC037F9EF92CDB7C600AF18B32AB8	4/1/2020	4/1/2030
CN=Omit Security RSA Client Authentication and Secure Email CA O=Omit Security, Inc C=US	B513F1ED9F4FB495DD72138ACEBC361B153BDA733547E1FFE834FF6877C6025D	4/7/2021	4/6/2031
CN=OneSign RSA Client Authentication and Secure Email CA O=One Sign Pte. Ltd. L=Singapore ST=Singapore C=SG	4C9D3E23D88290589497C354F0522203EF2D959F3F760722576AC7C6222FE42D	6/10/2019	6/9/2029
CN=Positiwise S/MIME CA O=Positiwise Software LLC C=US	72F0188E8AE0EC4E70C49CDA71F2413DA1C54C9889704BA3CD9D06AFA21450AF	8/3/2022	8/2/2032
CN=PSW GROUP (RSA) Secure Email CA O=PSW GROUP GmbH & Co. KG C=DE	2106439F2D26428172E674B3C5D02818257333B773D102E1FA7DBEA5879F2AEC	1/25/2021	12/31/2030
CN=RZTrust RSA Secure Email CA O=Zhongxiong Century Credit Co., Ltd C=CN	BB067135C804E780AA24D174A0C6FCECF832F46DE84AA97BF61506D82F39B7E1A	8/2/2023	8/1/2033
CN=Sectigo Partners - Client Authentication and Secure Email - RSA O=Sectigo Limited C=GB	F651B5CAAD909BC4B333A4C3CC737BE9CAD49890FB96D22DBC1E21E37F0DB551	3/20/2020	1/18/2038



Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=Sectigo Public Email Protection Root R46 O=Sectigo Limited C=GB	BC386A5C664B6B0B5E385FAC151AA3911606178359DED68AE5017DE985E78B94	3/22/2021	1/18/2038
CN=Sectigo RSA Client Authentication and Secure Email CA O=Sectigo Limited L=Salford ST=Greater Manchester C=GB	AAF25230D0301DADFB1DD57683FAD2531935E73D3A7AF91F88C2092DF64F1E55	11/2/2018	12/31/2030
CN=Sectigo RSA Document Signing CA O=Sectigo Limited L=Salford ST=Greater Manchester C=GB	B7AAE826FFF72DE3FD6B31881A56221D7077C3D55C64B3940CEDFB7AFD0DCE35	4/24/2019	12/31/2030
CN=SecureCore RSA Secure Client and Email CA O=SecureCore L=OSAKA ST=OSAKA C=JP	9F031ECCFFB5C5F66A2F70853820EA5AB54A7DAE1B073C067D0548D8BC74BE6B	2/27/2015	2/26/2025
CN=Site Blindado RSA Secure Email CA 3 O=Site Blindado S.A. C=BR	8B54FC61210974CC929592850802ED764E3FFBFF40B8A5AC5FE231311D6AA4FE	8/2/2023	8/1/2033
CN=SSL.com Client Authentication and Email CA OU=www.ssl.com O=SSL.com C=US	2BF4F1B4040DBC290C17AF1C177415B15DE7B7A05E5D693D1AADB349199E9271	7/4/2014	7/3/2024
CN=sslTrus RSA Secure Email CA O=sslTrus C=CN	989CC495E3BB0091753A2305CEA1741C3336DA18EFBE37EB8597FDBCE152E825	8/2/2023	8/1/2033
CN=TBS X509 CA persona 2 OU=TBS INTERNET CA O=TBS INTERNET L=Caen ST=Calvados C=FR	B191A155D50DDAEFB12EF5F829BCCD5D9FE8A9E87767B7374BF5C36CE740FF4A	9/23/2014	9/22/2024
CN=TBS X509 CA Persona 3 (RSA) O=TBS INTERNET Ltd. L=Douglas ST=Isle of Man C=IM	2AD909516FD72CA70D801EE831E4BB85EAAF96C2520C8F83CBA68E9B5473F4D9	6/13/2019	6/12/2029



Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=TERENA eScience Personal CA 2 O=TERENA L=Amsterdam ST=Noord-Holland C=NL	D02C57C6D784BC7FF5C4D033C22CDBA5A73A2F87D9E1D880EC78CD1AE0F8274E	10/9/2014	10/8/2024
CN=TERENA Personal CA 2 O=TERENA L=Amsterdam ST=Noord-Holland C=NL	104515409457080DB20A2E921F47BBD6AFA777559ADBBD97CFC2AD9D7B413B63	10/9/2014	10/8/2024
CN=The University of Texas at Arlington RSA CA O=The University of Texas at Arlington L=Arlington ST=TX C=US	0B38AAE67FA3E9F6D320FE10B9533D8B7AE826435FFC3B16602F87B6942CCC24	2/27/2015	2/26/2025
CN=The University of Texas at Austin RSA CA OU=Information Security Office O=The University of Texas at Austin L=Austin ST=TX C=US	C368BAACDAB6C34A523E57F39FE071DE85A6D1AEDFD1DDBD22FABB4B70DA5F41	2/27/2015	2/26/2025
CN=The University of Texas at Dallas RSA CA OU=Information Security Office O=The University of Texas at Dallas L=Richardson ST=TX C=US	C18C5714E486189DD2C3E6F563C5A97434D0CE0A539330F23F58213EB8568AB2	2/27/2015	2/26/2025
CN=The University of Texas Health Science Center at Houston RSA CA O=The University of Texas Health Science Center at Houston L=Houston ST=TX C=US	029523842D23EF395F5729E352522F80426585180BD36768C1ACADD22D8EA7DA	2/27/2015	2/26/2025
CN=The University of Texas-Pan American RSA CA OU=Information Technology O=The University of Texas-Pan American L=Edinburg ST=TX C=US	920CBCE9BD55D3CA8D446808A59EDF3C222AD5767A4453C686EE3C6F94F55BCE	2/27/2015	2/26/2025



Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=TI Trust Technologies Client CA O=TI Trust Technologies S.R.L. L=Pomezia ST=Roma C=IT	65ADC9C691D32155E68CE8D5193BF372295D25A04075457B31EE85A0441B23F8	7/30/2019	7/29/2029
CN=TrustAsia RSA Secure Client and Email CA O=TrustAsia Technologies, Inc. ST=Shanghai C=CN	E18CF8D5299188752B16F3E3C3CD8673619046E2F1B9E088DAB5D3116AEA61BD	3/11/2015	3/10/2025
CN=TrustOcean Organization Client Certification CA O=TrustOcean Limited C=US	6608E848E63A6820609B855C22324F6B8CB153EDCC80133254D7156BC3D3A026	1/29/2020	1/28/2030
CN=University of Texas Health Science Center at San Antonio RSA CA O=The University of Texas Health Science Center at San Antonio L=San Antonio ST=TX C=US	2D06B1B5E7350D949A0BD58053DFED6F0260AE5315D4132A0CC83FF0895C93CA	2/27/2015	2/26/2025
CN=USERTrust RSA Client Authentication and Secure Email CA O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	433D103DE099CC3F3414D004F870F4DA5C9E7F41A48BA8ACBAF3F91EEFCB0D60	9/12/2014	9/11/2029
CN=USERTrust RSA Extended Validation Secure Server CA O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	125A5FD7C640D5E59F5CE5763CD8C932F5E597DDDC4EAF1D59667CF4B556A237	2/12/2012	2/11/2027
CN=USERTrust RSA Extended Validation Secure Server CA O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	5367692ECE62B758D04D9B7E6DFB0DB307F859EBC6A6CB5F77FF24561D7CC004	2/12/2012	2/11/2027
CN=Valid Certificadora RSA Secure Email CA O=Valid Certificadora Digital LTDA C=BR	306FA9611D44DB0B8B6276C34C07A7C24E2CB0AA9512CF4AE1036E2223B65129	8/2/2023	8/1/2033

Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=Verokey Assured ID and Secure Email O=Verokey C=AU	03375E02E15A4D8887A382E554A739928B827A4C1B5D2EE7A57A252E22117700	6/25/2021	6/24/2031
CN=XinChaCha Trust Client O=Beijing Xinchacha Credit Management Co., Ltd. C=CN	8888FB2CF867B85B07968D540C4F2700045C1F954E63DEAFA614B77900D9388E	8/24/2022	8/23/2032
CN=ZoTrus Client CA O=ZoTrus Technology Limited C=CN	8328829116390913F0CF7D1810DD84B41FA0B493D421C3F192D39CBF55C5B27A	9/13/2021	9/12/2031
CN=ZwTrus Client CA O=北京中万网络科技有限公司 C=CN	C90F5F9BA11E1370818E71F62752476A66916BFBAC29D8F0D155AB7A620D091B	6/6/2022	6/5/2032
CN=上海锐成信息科技有限公司 Secure Email CA O=上海锐成信息科技有限公司 C=CN	80077665338A009789F842F3403647A71536C1FB264F35DAECEC0193E6508E0E	6/9/2020	6/9/2030
CN=时代互联 RSA Secure Email CA O=广东时代互联科技有限公司 C=CN	FBB8107CACE356051AD04B63B830904BF7882ACE8DC1A248A5ABB75F1A744954	8/2/2023	8/1/2033
CN=纳网 RSA Secure Email CA O=厦门纳网科技股份有限公司 C=CN	8C917F3CD9465EECF80F336352A1FB89045BCD19783351F159252C50A2A62B1A	5/20/2023	5/19/2033
CN=COMODO/HP Secure Email CA O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	FD029ADE3F7A80A98D6FFFC9429046585EF1D8CB8193A17F6214317D0652D7C3	9/11/2007	12/31/2028
CN=COMODO/PKWARE Secure Email CA O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	C0A1CA36475D33B471E4E58E5574DD9294D354C457295954DB555B24EAD2AA4B	11/13/2007	12/31/2028
CN=DREAMHOST SECURE EMAIL CA O=DREAMHOST CERTIFICATION AUTHORITY C=US	E904A057D839BCBE631092B4215DD8CC4F8849BA87B51AAF2728B71E64ACE751	3/4/2009	12/31/2028
CN=EuropeanSSL Client CA O=EUNETIC GmbH C=DE	2618C415C146BA98A5F0AD7EA498AA58780BA55FA8E3B072D13C330D41010717	7/18/2008	12/31/2028



Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=Gandi Secure Email CA O=GANDI SAS C=FR	F017E510918B77DA67E4D020E2B76A42461876E822F620C5573BCBC3BBB37406	10/23/2008	12/31/2028
CN=GlobalSSL Secure E-Mail and Client Authentication CA O=GlobalSSL C=DE	4F2C0C1701BDE01B6BEEDA6D17C336042421AF73117063347F7E97B76AD897F5	8/11/2009	12/31/2028
CN=GLOBE SSL SECURE EMAIL CA O=GLOBE HOSTING CERTIFICATION AUTHORITY C=RO	8F7240F160936F1FD406BF028B35B5D609B64B3BD0E31E13CC6DD9AB7CA12E6F	2/23/2009	12/31/2028
CN=Open Finance Network O=Open Finance Network postalCode=28203 C=US	FE333670664A02CBA1037CAE5EEE327D412956BCE5743BD9BF92BE18031887A	11/26/2008	12/31/2028
CN=SGTRUST EMAIL AND CLIENT CA O=SGssl C=KR	5F0A35BA4F84A65F68B16D4A33F6517C097708393EAAFD2856FB9A93418719F4	7/3/2009	12/31/2028
CN=State of Oregon Office of State Treasurer CA OU=Office of State Treasurer O=State of Oregon L=Salem ST=OR C=US	4B3EEC502338390167E6E81DA2F267A3A7F650186842B4E2AD849DECB95F4E32	4/28/2008	12/31/2028
CN=TERENA eScience Personal CA O=TERENA C=NL	F405077C7174703B9781C79544A7BE994263854D15173E61A8D19A28CF7A4AB1	5/18/2009	12/31/2028
CN=TERENA Personal CA O=TERENA C=NL	62616E9B11BD0E3A358360C83B78DBC5BEEA575C90B97E68244833FB30437C6B	5/18/2009	12/31/2028
CN=The Code Project Secure Email (S/mime) CA O=The Code Project C=CA	F68A23EB9737A8C744EE67112F2FC024AADC503BBB04F25CDED4F2576C93485	9/5/2008	12/31/2028



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June 17, 2025

SECTIGO LIMITED MANAGEMENT'S ASSERTION

Sectigo Limited ("Sectigo") operates the Certification Authority ("CA") services for the CAs enumerated in [Attachment C](#) in scope for S/MIME Baseline Requirements and provides S/MIME CA services.

The management of Sectigo is responsible for establishing and maintaining effective controls over its S/MIME CA operations, including its S/MIME CA business practices disclosure on its [repository](#), S/MIME key lifecycle management controls, and S/MIME 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 Sectigo's Certification Authority operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

Sectigo management has assessed its disclosures of its certificate practices and controls over its S/MIME CA services. Based on that assessment, in providing its S/MIME CA services the locations as enumerated in [Attachment B](#), Sectigo has:

- disclosed its S/MIME certificate lifecycle management business practices in the applicable versions of its Sectigo WebPKI S/MIME Certificate Practice Statement ("S/MIME CPS"), Sectigo Limited Certificate Policy ("CP") and Certification Practice Statement (S/MIME CP/CPS) enumerated in [Attachment A](#), including its commitment to provide S/MIME certificates in conformity with the CA/Browser Forum Requirements on the Sectigo [repository](#), and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and S/MIME certificates it manages is established and protected throughout their lifecycles; and
 - S/MIME subscriber information is properly authenticated (for the registration activities performed by Sectigo)
- maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorized individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity

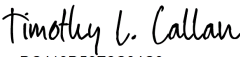
throughout the period April 1, 2024 to March 31, 2025, based on the [WebTrust Principles and Criteria for Certification Authorities - S/MIME Certificates v1.0.3](#).



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Sectigo has disclosed the following matters publicly on Mozilla’s Bugzilla platform. These matters were included below due to being open during the period April 1, 2024 through the date of this report:

Bug ID	Summary	Opened	Closed	Resolution
#1891039	Sectigo: Premature disabling of CRL generation for an inactive CA	04/11/2024	05/05/2024	Fixed
#1908690	Sectigo: Temporary unavailability for subset of CRLs	07/18/2024	08/23/2024	Fixed

DocuSigned by:

DC419D56E2C04C0...

Tim Callan
Chief Compliance Officer



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

Policy Name	Version	Effective Date	End Date
Sectigo S/MIME Certificate Policy and Certification Practice Statement	1.0.4	March 10, 2025	-
Sectigo S/MIME Certificate Policy and Certification Practice Statement	1.0.3	March 5, 2025	March 9, 2025
Sectigo WebPKI S/MIME Certificate Practice Statement	1.0.2	August 9, 2024	March 4, 2025
Sectigo WebPKI S/MIME Certificate Practice Statement	1.0.1	August 7, 2024	August 8, 2024
Sectigo WebPKI S/MIME Certificate Practice Statement	1.0.0	August 31, 2023	August 6, 2024

Policy Name	Version	Effective Date	End Date
Sectigo WebPKI Certificate Policy ¹	1.4.0	March 11, 2025	March 11, 2025
Sectigo WebPKI Certificate Policy	1.3.5	December 4, 2024	March 10, 2025
Sectigo WebPKI Certificate Policy	1.3.4	February 7, 2024	December 3, 2024

¹ Superseded by combined Sectigo S/MIME Certificate Policy and Certification Practice Statement



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ATTACHMENT B - LOCATIONS IN-SCOPE

Location	Function
Secaucus, NJ, United States of America	Datacenter Facility
Manchester, United Kingdom	Datacenter Facility
Bradford, United Kingdom	Back-end Office Support
Chennai, India	Back-end Office Support
Iași, Romania	Back-end Office Support
Kanata, ON, Canada	Back-end Office Support
Lille, France	Back-end Office Support
Alkmaar, The Netherlands	Back-end Office Support
Scottsdale, AZ, United States of America	Back-end Office Support



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ATTACHMENT C - CAs IN-SCOPE FOR S/MIME BASELINE REQUIREMENTS

Root CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=AAA Certificate Services O=Comodo CA Limited L=Salford ST=Greater Manchester C=GB	D7A7A0FB5D7E2731D771E9484EBCDEF71D5F0C3E0A2948782BC83EE0EA699EF4	1/1/2004	12/31/2028
CN=COMODO Certification Authority O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	0C2CD63DF7806FA399EDE809116B575BF87989F06518F9808C860503178BAF66	12/1/2006	12/31/2029
CN=COMODO Certification Authority O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	1A0D20445DE5BA1862D19EF880858CBCE50102B36E8F0A040C3C69E74522FE6E	1/1/2011	12/31/2030
CN=COMODO ECC Certification Authority O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	1793927A0614549789ADCE2F8F34F7F0B66D0F3AE3A3B84D21EC15DBBA4FADC7	3/6/2008	1/18/2038
CN=COMODO RSA Certification Authority O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	52F0E1C4E58EC629291B60317F074671B85D7EA80D5B07273463534B32B40234	1/19/2010	1/18/2038
CN=Ensured Root CA O=Ensured B.V. L=Heerhugowaard ST=Noord-Holland C=NL	E99BA2CEF1B86154C7362AD2001C3DB99083F155769B69B6280E0BC7E8672AA4	11/11/2014	1/18/2038
CN=Ensured Root CA O=Ensured B.V. L=Heerhugowaard ST=Noord-Holland C=NL	100CF7E1373EBDAE233E5F8B1A5385FDABFEE8A31F752E33219D343DE3AFBC9C	7/23/2015	1/18/2038
CN=Sectigo Public Email Protection Root E46 O=Sectigo Limited C=GB	22D9599234D60F1D4BC7C7E96F43FA555B07301FD475175089DAFB8C25E477B3	3/22/2021	3/21/2046



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Root CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=Sectigo Public Email Protection Root R46 O=Sectigo Limited C=GB	D5917A7791EB7CF20A2E57EB98284A67B28A57E89182DA53D546678C9FDE2B4F	3/22/2021	3/21/2046
CN=Sectigo Public Root E46 O=Sectigo Limited C=GB	56C9A62B261589B0F5CD71E2E2C2E569D74B51A831B7ACB6A7FA4EB238EFC2FF	3/22/2021	3/21/2046
CN=Sectigo Public Root R46 O=Sectigo Limited C=GB	E3B08CB86E2D62C9DA72992069CB0AC4ECBB5BD895581C24CD301C5756F78BF4	3/22/2021	3/21/2046
CN=USERTrust ECC Certification Authority O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	4FF460D54B9C86DABFBCFC5712E0400D2BED3FBC4D4FBDAA86E06ADCD2A9AD7A	2/1/2010	1/18/2038
CN=USERTrust RSA Certification Authority O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	E793C9B02FD8AA13E21C31228ACCB08119643B749C898964B1746D46C3D4CBD2	2/1/2010	1/18/2038



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=COMODO ECC Certification Authority O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	53612513970B9F264CA4BCC3BFD84DBC5FE774E3C6295B3EBB99EB9D74069E2A	1/1/2004	12/31/2028
CN=COMODO RSA Certification Authority O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	38392F17CE7B682C198D29C6E71D2740964A2074C8D2558E6CFF64C27823F129	1/1/2004	12/31/2028
CN=COMODO SHA-256 Client Authentication and Secure Email CA 3 O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	AD61327EE99B40613E480751B56691A096412C68F74F4012B29FA0F48BB924C9	7/6/2017	12/31/2028
CN=Sectigo Public Email Protection Root E46 O=Sectigo Limited C=GB	D14A75EED53081B7ABAFD5C2F4553E3AFB468CF655137CA865B5404A5011C459	3/22/2021	12/31/2028
CN=Sectigo Public Email Protection Root R46 O=Sectigo Limited C=GB	9582BE143B91A3144AAE6B53CAADDB399D8CF0DA22E38C39A13F5226DD5B49BC	3/22/2021	12/31/2028
CN=TrustAsia ECC Secure Email CA G2 O=TrustAsia Technologies, Inc. C=CN	9ACA5C9670937BC1DC3DE4DD0A75D2A86214549C572D50FFD3F8C8430ECA1A7	1/10/2022	12/31/2028
CN=TrustAsia RSA Secure Email CA G2 O=TrustAsia Technologies, Inc. C=CN	4AF84168916F1B695D3CF845640FB407A655047979CC7B3BD70E12B53CE14196	1/10/2022	12/31/2028
CN=USERTrust ECC Certification Authority O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	A6CF64DBB4C8D5FD19CE48896068DB03B533A8D1336C6256A87D00CBB3DEF3EA	3/12/2019	12/31/2028
CN=USERTrust RSA Certification Authority O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	68B9C761219A5B1F0131784474665DB61BBDB109E00F05CA9F74244EE5F5F52B	3/12/2019	12/31/2028



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=UTN-USERFirst-Client Authentication and Email OU=http://www.usertrust.com O=The USERTRUST Network L=Salt Lake City ST=UT C=US	14E384649AA401F1D1CABD5FA3D08ABE82F14B7DAE6C5615B1CD7DD41E9750E3	1/1/2004	12/31/2028
CN=UTN-USERFirst-Client Authentication and Email OU=http://www.usertrust.com O=The USERTRUST Network L=Salt Lake City ST=UT C=US	565C82702B5EC63202754D4F4B76CC3BAE32A4C9146ED3BEC73A404FFAD4CDE	1/1/2004	12/31/2028
CN=COMODO SHA-256 Client Authentication and Secure Email CA 2 O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	D86A18B5F76952B736E89A2DB3F0FDF9070711460114B6A08D649CA627935C96	6/13/2017	6/12/2032
CN=COMODO ECC Client Authentication and Secure Email CA O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	6930647342C00AE625A038673080903A6A5431A18FAE64403AEB9F4A838289B4	9/12/2014	9/11/2029
CN=COMODO ECC Extended Validation Secure Server CA O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	06C27461C0417D513CE0F634FAB5ADD30C88EF0E25C84FDE0E42125B88CA0475	4/15/2013	4/14/2028
CN=COMODO/HP Secure Email CA 2 O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	B9B8851C25F6CC35D48E1B2B77E3EBF057EDCAC9885A4177ACB5A3960458261E	11/26/2014	11/25/2029
CN=COMODO RSA Client Authentication and Secure Email CA O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	15FAC425AA84404B362FA3489EB67D055D5DA276F8685C4D698DA1830D420F0F	1/10/2013	1/9/2028



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=COMODO RSA Extended Validation Secure Server CA O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	7E0E16C0056F41A9F4C61F571503C3BCF079E2BDD8228BF2219AC31200496B5C	2/12/2012	2/11/2027
CN=COMODO RSA Extended Validation Secure Server CA O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	CD730E53FE732D8F09D68C2CDBFD1EFD98A855F5E149021C01CB2EEE1D8186E7	2/12/2012	2/11/2027
CN=InterContinental Hotels Group RSA Client CA O=Six Continents Hotels, Inc. L=Dunwoody ST=GA C=US	8ABFFCFA7D3E09DF531A72FF164065B3A6D80A77E33CEC436EE9D3F60F84133B	9/1/2015	8/31/2025
CN=Oregon State Treasury RSA Client CA OU=Office of the State Treasurer O=Oregon State Treasury L=Salem ST=Oregon C=US	128AC11B48F4E62B2EE579E09322E39A1735E73A3D964F5E5D72271796FE0A36	3/23/2016	3/23/2026
CN=Saint Barnabas Corporation RSA Client CA O=Saint Barnabas Corporation L=West Orange ST=NJ C=US	7DA07529E65D4A2B76097A8EBAE51ACC36EC58A94CD4E918675D0174187CC46F	5/16/2016	5/16/2026
CN=Trustico RSA Client CA O=The Trustico Group Ltd L=Croydon ST=London C=GB	97221453BB214642C1DC5ABCD479FE4EEDB5F2B03944F002B81B847C39F80FEC	9/8/2017	9/8/2027
CN=United Parcel Service, Inc. RSA Client CA O=United Parcel Service, Inc. L=Atlanta ST=GA C=US	2E642C0BE13A5DE0BC6FB3EBE42A1FADDB76228D24DE4FEBB95B6C3A549533EB	2/26/2016	2/25/2026



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=WebNIC Assured ID CA O=WebNIC L=Singapore C=SG	7CB1F0F103D4EE82D9AD41F69023C594211F5285C394E87D54BF0474622C8265	9/23/2019	9/22/2029
CN=InCommon ECC Secure Email CA 3 O=Internet2 C=US	86872ADCEBB9F15338B21DD064F969B75998372F9D7353CB5F467B4CAA8F7B24	6/5/2024	6/4/2034
CN=iTrust ECC Secure Email CA 2 O=iTrust, Inc. C=CN	2BF08AE98D63C5AC1B0FB8E5509E808EC82D7035A550E7D3F9E8ED87B8D851F0	11/6/2024	11/5/2034
CN=Lidl & Kaufland Asia ECC Secure Email CA O=Lidl & Kaufland Asia Pte. Limited C=SG	B6B73C221FD1367D5CDE49D6C53725D1F83882AB6DBE21DBA57BD29116F876D5	10/3/2024	10/2/2034
CN=Sectigo Public Email Protection CA E36 O=Sectigo Limited C=GB	F0C60046121178A15B108341B47B5F4BCA37E5C898E3239F2756DB5AA8D42BE1	3/22/2021	3/21/2036
CN=TBS Internet ECC Secure Email CA 4 O=TBS INTERNET Ltd. C=GB	2FF8F3276E98EBCB6C2E6C524BF12AA40E6B6813A88E72C4BB9D24428E7961FA	10/3/2024	10/2/2034
CN=TrustAsia ECC Secure Email CA 3 O=TrustAsia Technologies, Inc. C=CN	177AC6B42931BD7D6D5E1F1FB6EB959245750A8CEF04E7E2FBC10DB677E01BB0	5/1/2024	4/30/2034
CN=宝塔 ECC Secure Email CA O=广东宝塔安全技术有限公司 C=CN	3E057297B9E78E80991B460B1A273E4A83BE1FB0F74783CB9F81456EF1700005	11/6/2024	11/5/2034
CN=Alpiro RSA Secure Email CA 2 O=Alpiro s.r.o. C=CZ	842EE6B3C470EC556248CEE62CF52D8154D0D4DCA8D543A6AEF0D075C3F7A6BE	5/1/2024	4/30/2034
CN=CerSign RSA Secure Email CA 2 O=CerSign Technology Limited C=CN	977C4E246A4AAF8B7654FF65AE09F8DC29D051FB21E3E4EFA5627CA23804A999	5/1/2024	4/30/2034
CN=FujiSSL RSA Secure Email CA 2 O=Nijimo, Inc. C=JP	CC746668B0B09C30E20B7A1AD1A9A74986E0F45D40893C8417177520668ED08D	6/5/2024	6/4/2034
CN=InCommon RSA Secure Email CA 3 O=Internet2 C=US	94A3CF64537134D8253645099C892F42EFA9E238F40FE0EF0DC4E521E09D5756	6/5/2024	6/4/2034
CN=iTrust RSA Secure Email CA 2 O=iTrust, Inc. C=CN	964075106DE580392A907E1E2EB53237260FA31CF10D04B3CCF991B65C947EF8	11/6/2024	11/5/2034



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=Lidl & Kaufland Asia RSA Secure Email CA O=Lidl & Kaufland Asia Pte. Limited C=SG	1BC55F92EC2BF0B80EADB2BD3AD673E8D8771BC90C3260847006452CA2494D32	10/3/2024	10/2/2034
CN=Sectigo Public Email Protection CA R36 O=Sectigo Limited C=GB	118783706A481641898904DC4C322B4A322C37ABA3ECB9C6E90E408616DC3456	3/22/2021	3/21/2036
CN=SSL2BUY EMEA RSA Secure Email CA O=SSL2BUY EMEA LLC C=AE	402654B3931F20DAB57837F2C4308B3A3326203ED1691ACFB50C0D8FAB677F65	7/31/2024	7/30/2034
CN=TBS Internet RSA Secure Email CA 4 O=TBS INTERNET Ltd. C=GB	B292BB1F11730C88A4BCD1DC10331D99448AB436747598CA67C039EFA52D012A	10/3/2024	10/2/2034
CN=The University of Texas at Arlington RSA Secure Email CA 2 O=The University of Texas at Arlington C=US	81F418BA1FA7DF8CEBAFDA10C9177847693C854774066E31D867008F17732539	2/27/2025	2/26/2035
CN=The University of Texas at Austin RSA Secure Email CA 2 O=The University of Texas at Austin C=US	6097F7F0D5492BBEF9F9815470BDDC7202A0E19F3F5C323658DE632D55125998	6/5/2024	6/4/2034
CN=The University of Texas at Dallas RSA Secure Email CA 2 O=The University of Texas at Dallas C=US	7911DA119614D2FF6E81AC9973AE366F9A7E993A81EAA1DD180DA4455D8D11D9	6/5/2024	6/4/2034
CN=TrustAsia RSA Secure Email CA 3 O=TrustAsia Technologies, Inc. C=CN	713B9480F53CBC4F26E508357175743CD66B5B2E4E59BDBC975894D607CA604	5/1/2024	4/30/2034
CN=UTHealth Houston RSA Secure Email CA 2 O=The University of Texas Health Science Center at Houston C=US	A9B25845A63DF5B4FCCDD6E23DB832AD30312231D4BD32321DC03DD56F12B3D	6/5/2024	6/4/2034
CN=UT Health San Antonio RSA Secure Email CA 2 O=The University of Texas Health Science Center at San Antonio C=US	2CDB785514360364A8116C0B7973FE89B63DA67759DB381C9E09DB3E45B81A15	2/27/2025	2/26/2035
CN=ZoTrus RSA Secure Email CA 2 O=ZoTrus Technology Limited C=CN	E090D357F57E9C5BECB627C685D923331700D1F7EDD72FEC57562C0C00D50A27	5/1/2024	4/30/2034
CN=宝塔 RSA Secure Email CA O=广东宝塔安全技术有限公司 C=CN	574D448F0E99C5F4A3F1C3866D18A78A3F455030EBB48451965D15502E471A91	11/6/2024	11/5/2034



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BD7 1HR, United Kingdom

Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=CATrust ECC Secure Email CA O=Zhejiang Xinya Network Technology Co., Ltd. C=CN	96F8E8481B183A57869FAD06B772236E502BD07D0330F0F8263C168B9A1B2CF2	2/24/2023	2/23/2033
CN=CERTDATA SMIME OV ECC CA [Run by the Issuer] O=CERTDATA SERVICOS DE INFORMACAO LTDA C=BR	25640E60EAB2D51FFFC43776F087B00B3A73C8539AE8440A1CBD014873FE882C	3/5/2020	3/5/2030
CN=Certera ECC Client CA O=Certera C=US	D8E21819093910D45CDFB83C92DC3478154CFCE419A8211D68A92906FE8EE79E	9/7/2022	9/6/2032
CN=cnTrus Client - ECC O=Zhejiang Huluwa Digital Certification Co., Ltd. C=CN	0B461FC077482B83E101E4E9D8379A0D34D7584E516C4F9809080F0CEF1D48EF	8/24/2022	8/23/2032
CN=cnWebTrust Client - ECC O=cnWebTrust Inc C=CN	EEFCBAEB86D003EC1B12FE6A8A2A7C8531F3BDCE64D913893F38BAF9AA2316B1	6/6/2022	6/5/2032
CN=CTI ECC Secure Email CA O=Centre Testing International Group Co., Ltd. C=CN	9D3C4DB6184033EAFCB1E85EA74F693E47992B18E2165E7A6D8D5D1FB000FDD4	8/2/2023	8/1/2033
CN=DigitalTrust Assured CA G3 [Run by the Issuer] O=Digital Trust L.L.C. C=AE	6F01CE4B96A54F3BF6F3B3F01BC1452902E8066F7EF47A0471D99489CC2F844C	1/8/2020	1/7/2030
CN=E-SAFER ORGANIZATION SMIME OV ECC CA O=E-SAFER CONSULTORIA EM TECNOLOGIA DA INFORMACAO LTDA C=BR	EF50FAF5410B03444B7C4D988A092A1616DBC9F9B145AC0094253D54132C480A6	10/22/2021	10/21/2031
CN=GEANT eScience Personal ECC CA 4 O=GEANT Vereniging C=NL	6021D4A3CDEBD98D5298235F5881F4B969D71D43F3EE3DF156BF23630B07AE3B	2/18/2020	5/1/2033
CN=GEANT Personal ECC CA 4 O=GEANT Vereniging C=NL	B1A8FD40B437DED972F574370622E2BBB2F9B9593BC0504D7E2030F2B24E67FA	2/18/2020	5/1/2033
CN=GeoSSL ECC Secure Email CA O=GeoSSL C=CN	7E545BC65287101D31DAA7C56306E3262221ACC97AB74157D1F2113DFAF10CA8	11/11/2022	11/10/2032



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=InCommon ECC Standard Assurance Client CA 2 O=Internet2 C=US	9D5CE3B704A1143130BC8E7AE62C69FEC11BFBE829493955BF5865FB54FD9131	11/16/2022	11/15/2032
CN=iTrust ECC Secure Email CA O=iTrust, Inc. C=CN	506B33503BB6F79424F8249CFEFB0351C3677C00A20E17AB645732677AB506B7	11/6/2024	11/5/2034
CN=Omit Security ECC Client Authentication and Secure Email CA O=Omit Security, Inc C=US	9C99A8D9D756D74ED28B4D27200C1CEB0517F8394674A7C25DD632F5F3EE52B4	4/7/2021	4/6/2031
CN=PSW GROUP (ECC) Secure Email CA O=PSW GROUP GmbH & Co. KG C=DE	FDC3F88D56AC359DEBAE391BB33F721D1584FF842E02E1A880CCFA03BE4B622D	1/25/2021	12/31/2030
CN=RZTrust ECC Secure Email CA O=Zhongxiong Century Credit Co., Ltd C=CN	5509CC40B117A79A0AC2DAC5C2A456A377AAB314B47C94427086DE590D604F8D	8/2/2023	8/1/2033
CN=Sectigo ECC Client Authentication and Secure Email CA O=Sectigo Limited L=Salford ST=Greater Manchester C=GB	91DA7A5CA6134875008994C250DAD9221F0C5E2D4E3E0973F7961DCBDFB743EC	11/2/2018	12/31/2030
CN=Sectigo Partners - Client Authentication and Secure Email - ECC O=Sectigo Limited C=GB	EAC0134370C9FFABFC7AEB5FD03C2516290FAE5585081C40A08F19C89AB7BF5B	3/20/2020	1/18/2038
CN=Sectigo Public Email Protection Root E46 O=Sectigo Limited C=GB	BFC1593F5055ACB4878D26BA8CCA46689A7AF3AF12ADF9C55752DCE53E9D53E5	3/22/2021	1/18/2038
CN=sslTrus ECC Secure Email CA O=sslTrus C=CN	9295C105C28085A1C388CC5F24CD917292009DD71A917499F75E8EEEB02EEEE7	8/2/2023	8/1/2033
CN=TBS X509 CA Persona 3 (ECC) O=TBS INTERNET Ltd. L=Douglas ST=Isle of Man C=IM	6A2B458ECA204B2DDABF4E26D46FD0F9BBE867DA7AAC35532513A6E5A4FCCA58	6/13/2019	6/12/2029



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=USERTrust ECC Client Authentication and Secure Email CA O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	52DFD735D4ADA4AEACB2D77968F9711143FB0C3C5A83B50AC4DEB987A878E509	9/12/2014	9/11/2029
CN=USERTrust ECC Extended Validation Secure Server CA O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	E81443141E3C1232D06465E11BBD1F6CA7181A3E037F815BB8FAAEADE6BEBED1	4/15/2013	4/14/2028
CN=XinChaCha Trust Client - ECC O=Beijing Xinchacha Credit Management Co., Ltd. C=CN	6F4504EABC24E8A53E8F7CAD1A3D9D85FACFC3DF59EF5611B94C0143BDEADF87	8/24/2022	8/23/2032
CN=ZwTrus ECC Client CA O=北京中万网络科技有限责任公司 C=CN	ADB1D9561FF1C7D6FB704C8DBF8D59862D37BDA89DB0CEA7D1FD347B3637B953	6/6/2022	6/5/2032
CN=时代互联 ECC Secure Email CA O=广东时代互联科技有限公司 C=CN	E28C33D74EB5C3EA936AE55A5CBC4F1EBA9C604404032FB33DBF158D6AC821E5	8/2/2023	8/1/2033
CN=纳网 ECC Secure Email CA O=厦门纳网科技股份有限公司 C=CN	406D1BF5BEFEDFFADBA368FB6AE22E86C81B66AF0C99B15DA6769452726F6C60	5/20/2023	5/19/2033
CN=AlpiroSSL RSA Client Authentication and Secure Email CA O=Alpiro s.r.o. C=CZ	90169B80422D6912C386D15307FB822DB6DA15288122E18C22200F52E24A4768	10/6/2020	10/5/2030
CN=BitCert SHA2 Assured ID CA O=BitCert L=Chengdu ST=Sichuan C=CN	D20A40BB1B054D1C741CF6F404705436851F468FC0A45564941CC7C7F74A126F	6/7/2019	6/6/2029
CN=BlackCert, Inc. RSA Client Certification Authority O=BlackCert, Inc. L=Denver ST=CO C=US	FF912D5403FDA6CBB1A7248EB60B4AD1B4F9BE594525EE1F16488C039F38D2EE	7/17/2015	7/16/2025



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=CATrust RSA Secure Email CA O=Zhejiang Xinya Network Technology Co., Ltd. C=CN	2B72C23B951762C7B24C45D08976587EA30FBCBF6623728CEFF50532929F51B2	2/24/2023	2/23/2033
CN=CerSign Client CA O=CerSign Technology Limited C=CN	69DF64756EDCA83537061221167F4DE6E30A6BD94B978FC99CA52659D6D06A7C	9/13/2021	9/12/2031
CN=CertAssure RSA Client Personal ID CA O=CertAssure Inc. L=San Jose ST=CA C=US	79D778924FD08F715312E57E107566A8161EA1E68649BD45EA89184AA62EA31E	10/14/2014	10/13/2024
CN=CertCloud Secure Client and Email CA O=CertCloud Pte. Ltd. C=SG	EE8F9D8A9FD7C895EF786233187397F7433291F0BE7F8850A7CFB581E29B28F5	8/18/2020	8/17/2030
CN=CERTDATA SMIME OV CA [Run by the Issuer] O=CERTDATA SERVICOS DE INFORMACAO LTDA C=BR	492EEE8B3AA6EAC08C2B78A976F133E7E23A1439210807DC4C734F935AAFA5BA	3/5/2020	3/5/2030
CN=Certera Client CA O=Certera C=US	8004EE3237B9CC853DF9E865307D9BCE11AA3867791849E5CB22F9E634735403	9/7/2022	9/6/2032
CN=CloudSecure RSA Secure Email CA 2 O=CloudSecure Corporation C=JP	5DC9A4589C91E992B435F5381A293C56DA845944315D063A3921651FA270A3ED	1/31/2024	1/30/2034
CN=cnTrus Client O=Zhejiang Huluwa Digital Certification Co., Ltd. C=CN	CDA1086879F99D1F4199789C034E7D313F02CFDDF3338E15EAB786DC374B3052	8/24/2022	8/23/2032
CN=cnWebTrust Client O=cnWebTrust Inc C=CN	9D913DBCE26C78BA5566B397B951995962CB21188AB7441218F54F375EBF0941	6/6/2022	6/5/2032
CN=CSP SSL Service CA 6 O=CENTRAL SECURITY PATROLS CO., LTD. L=Shinjuku-ku ST=Tokyo C=JP	5814E6CB54EAE95343D859992A01630F592B155AF1752431E3C1BF3B05562650	9/10/2014	9/9/2024
CN=CTI RSA Secure Email CA O=Centre Testing International Group Co., Ltd. C=CN	19D5253ED841FC1034D04DE4A052474E981DF09B21E688C60F02AAFABF82BEBF	8/2/2023	8/1/2033



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=Digi-Sign CA Digi-ID O=Digi-Sign Limited L=Dublin ST=County Dublin C=IE	A5EB07B421DFCFED6A9C5E2E72AE7105E29AC8675A896B2B5228E355761FAFB6	11/7/2014	11/6/2024
CN=DigitalTrust Assured CA G4 [Run by the Issuer] O=Digital Trust L.L.C. C=AE	75841695C600040660A3D3725E531D3DCFAFCCD26F588375EAB2D8D129904785	1/8/2020	1/7/2030
CN=Don Dominio / MrDomain RSA Client CA O=Soluciones Corporativas IP, SL L=Manacor ST=Illes Balears C=ES	CE8E10501CD188D227EF74AD0A342D977643BD2DE3F217161B5ED2FFB05811A7	2/16/2018	2/16/2028
CN=eMudhra RSA Client Authentication and Secure Email CA O=eMudhra Technologies Limited L=Bengaluru ST=Karnataka C=IN	25B749D722B0FC884E69CF5A7EAA1B0B1FEF1E259D6D07F08B798E6FEF823E02	5/14/2019	5/13/2029
CN=E-SAFER ORGANIZATION SMIME OV CA O=E-SAFER CONSULTORIA EM TECNOLOGIA DA INFORMACAO LTDA C=BR	F24CB28D6FFFB4C86C8DEF07E07DAB1E586F7FE80E935C4EB182A1524982B68	10/22/2021	10/21/2031
CN=EUNETIC RSA Secure Email CA 3 O=EUNETIC GmbH C=DE	0B98958EE95A760D28B6955C04EA91FC2802561F15ACD12FF4D91DBA584087AB	8/2/2023	8/1/2033
CN=EuropeanSSL S/MIME CA O=EUNETIC GmbH C=DE	F3D55C767D12070AE8E7B316633FEA54AF05494BF56529A6FADB939A8A2C4D2F	8/4/2021	8/3/2031
CN=FujiSSL RSA Client Authentication and Secure Email CA O=Nijimo K.K. L=Shibuya-ku ST=Tokyo C=JP	A6199561539C4A8AB019EB136B3FD0D7690175D41AE7F58A3BF48A1F0B132828	5/15/2019	5/14/2029
CN=GEANT eScience Personal CA 4 O=GEANT Vereniging C=NL	D0382AC5819F95AD10238CBE6E3C4ED3D8241CD954D2653FEA470AC9F390CD4D	2/18/2020	5/1/2033
CN=GEANT Personal CA 4 O=GEANT Vereniging C=NL	16D9DE945A428011FA3A08323DA0E4347438F5AF1CE3E80283223E25A46C2A9E	2/18/2020	5/1/2033



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=Gehirn Managed Certification Authority - RSA Digital ID O=Gehirn Inc. L=Chiyoda-ku ST=Tokyo C=JP	A9BAEB6F3814B4C34310DA84DED3AC382DA012B84D207D4A39B1671CF581F4C1	3/16/2018	3/15/2028
CN=GeoSSL RSA Secure Email CA O=GeoSSL C=CN	E9EF6F1255576125BC20733BC1D6C690763EC7B97CD6ECB5689B516A34BB8E86	11/11/2022	11/10/2032
CN=Global Trust CA - Client O=Global Digital Inc. C=TW	4C08C2FBA948D4843714B633A18126B2417038D7B745DA41ED15EAA7AAE7C599	1/8/2020	1/7/2030
CN=GoGetSSL RSA Client CA O=GoGetSSL L=Riga C=LV	42E0C05A00FC2E473D8D076EFB44A7017CEFFBF604062B16ACB644EEAE1EFFFC	9/6/2018	9/5/2028
CN=InCommon RSA Standard Assurance Client CA 2 O=Internet2 C=US	AE0F9632B069A41094F10FFFF9DA6DE76865A55B68DC964E7C90FC7493EFFE5E	11/16/2022	11/15/2032
CN=InCommon RSA Standard Assurance Client CA OU=InCommon O=Internet2 L=Ann Arbor ST=MI C=US	64991B6986B22CF00649DAF8FA922ED9A14DC8305CCE7CD8372CBF4865E6AF35	9/19/2014	9/18/2024
CN=ISSAuth RSA Client Authentication and Secure Email CA O=INTEGRITY Security Services LLC C=US	BC26C6D439E39005659A239F57CA715AA0DF27F6D1ADDBB8D5DDF9BA6224B185	9/25/2020	9/25/2030
CN=iTrust RSA Secure Email CA O=iTrust, Inc. C=CN	973F0A984FC266FD43B443206149DFCF813E0A570E6D617D85460EF60ACD9654	11/6/2024	11/5/2034
CN=MarketWare RSA Secure Email CA 3 O=MarketWare - Soluções para Mercados Digitais, Lda. C=PT	21671C54467AA9B0049502E440370006D48EC81A2B034DFEFF3EBF6BA509C348	8/2/2023	8/1/2033



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=MarketWare Secure Email / Client Authentication CA 2 O=MarketWare - Soluções para Mercados Digitais, Lda. L=Lisboa ST=Lisboa C=PT	FBB777AC8DCCF7993EF3924FF8CD09F95FB167390A78CC1F3C852C1F15A66D3	10/27/2014	10/26/2024
CN=McAfee Client/Email CA 2 O=McAfee, Inc. L=Santa Clara ST=CA C=US	CE10391216ADA46C376B7333715777A792D8D422BD7C5E06FE2EB795A00DC7EC	10/27/2014	10/26/2024
CN=McAfee RSA Secure Email CA 3 O=McAfee, LLC C=US	BC0C07C421B489419BFEEB2A50D74E615B7CD7AA5D83CA95378143B6D923BF61	10/26/2023	10/25/2033
CN=MeSince Secure Email CA [Run by the Issuer] O=MeSince Technology Limited C=CN	FD47CB2304786DA24F849FCA88AC5CAD4B9FC037F9EF92CDB7C600AF18B32AB8	4/1/2020	4/1/2030
CN=Omit Security RSA Client Authentication and Secure Email CA O=Omit Security, Inc C=US	B513F1ED9F4FB495DD72138ACEBC361B153BDA733547E1FFE834FF6877C6025D	4/7/2021	4/6/2031
CN=OneSign RSA Client Authentication and Secure Email CA O=One Sign Pte. Ltd. L=Singapore ST=Singapore C=SG	4C9D3E23D88290589497C354F0522203EF2D959F3F760722576AC7C6222FE42D	6/10/2019	6/9/2029
CN=Positiwise S/MIME CA O=Positiwise Software LLC C=US	72F0188E8AE0EC4E70C49CDA71F2413DA1C54C9889704BA3CD9D06AFA21450AF	8/3/2022	8/2/2032
CN=PSW GROUP (RSA) Secure Email CA O=PSW GROUP GmbH & Co. KG C=DE	2106439F2D26428172E674B3C5D02818257333B773D102E1FA7DBEA5879F2AEC	1/25/2021	12/31/2030
CN=RZTrust RSA Secure Email CA O=Zhongxiong Century Credit Co., Ltd C=CN	BB067135C804E780AA24D174A0C6FCECF832F46DE84AA97BF61506D82F39B7E1A	8/2/2023	8/1/2033
CN=Sectigo Partners - Client Authentication and Secure Email - RSA O=Sectigo Limited C=GB	F651B5CAAD909BC4B333A4C3CC737BE9CAD49890FB96D22DBC1E21E37F0DB551	3/20/2020	1/18/2038



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=Sectigo Public Email Protection Root R46 O=Sectigo Limited C=GB	BC386A5C664B6B0B5E385FAC151AA3911606178359DED68AE5017DE985E78B94	3/22/2021	1/18/2038
CN=Sectigo RSA Client Authentication and Secure Email CA O=Sectigo Limited L=Salford ST=Greater Manchester C=GB	AAF25230D0301DADFB1DD57683FAD2531935E73D3A7AF91F88C2092DF64F1E55	11/2/2018	12/31/2030
CN=Sectigo RSA Document Signing CA O=Sectigo Limited L=Salford ST=Greater Manchester C=GB	B7AAE826FFF72DE3FD6B31881A56221D7077C3D55C64B3940CEDFB7AFD0DCE35	4/24/2019	12/31/2030
CN=SecureCore RSA Secure Client and Email CA O=SecureCore L=OSAKA ST=OSAKA C=JP	9F031ECCFFB5C5F66A2F70853820EA5AB54A7DAE1B073C067D0548D8BC74BE6B	2/27/2015	2/26/2025
CN=Site Blindado RSA Secure Email CA 3 O=Site Blindado S.A. C=BR	8B54FC61210974CC929592850802ED764E3FFBFF40B8A5AC5FE231311D6AA4FE	8/2/2023	8/1/2033
CN=SSL.com Client Authentication and Email CA OU=www.ssl.com O=SSL.com C=US	2BF4F1B4040DBC290C17AF1C177415B15DE7B7A05E5D693D1AADB349199E9271	7/4/2014	7/3/2024
CN=sslTrus RSA Secure Email CA O=sslTrus C=CN	989CC495E3BB0091753A2305CEA1741C3336DA18EFBE37EB8597FDBCE152E825	8/2/2023	8/1/2033
CN=TBS X509 CA persona 2 OU=TBS INTERNET CA O=TBS INTERNET L=Caen ST=Calvados C=FR	B191A155D50DDAEFB12EF5F829BCCD5D9FE8A9E87767B7374BF5C36CE740FF4A	9/23/2014	9/22/2024
CN=TBS X509 CA Persona 3 (RSA) O=TBS INTERNET Ltd. L=Douglas ST=Isle of Man C=IM	2AD909516FD72CA70D801EE831E4BB85EAAF96C2520C8F83CBA68E9B5473F4D9	6/13/2019	6/12/2029



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=TERENA eScience Personal CA 2 O=TERENA L=Amsterdam ST=Noord-Holland C=NL	D02C57C6D784BC7FF5C4D033C22CDBA5A73A2F87D9E1D880EC78CD1AE0F8274E	10/9/2014	10/8/2024
CN=TERENA Personal CA 2 O=TERENA L=Amsterdam ST=Noord-Holland C=NL	104515409457080DB20A2E921F47BBD6AFA777559ADBBD97CFC2AD9D7B413B63	10/9/2014	10/8/2024
CN=The University of Texas at Arlington RSA CA O=The University of Texas at Arlington L=Arlington ST=TX C=US	0B38AAE67FA3E9F6D320FE10B9533D8B7AE826435FFC3B16602F87B6942CCC24	2/27/2015	2/26/2025
CN=The University of Texas at Austin RSA CA OU=Information Security Office O=The University of Texas at Austin L=Austin ST=TX C=US	C368BAACDAB6C34A523E57F39FE071DE85A6D1AEDFD1DDBD22FABB4B70DA5F41	2/27/2015	2/26/2025
CN=The University of Texas at Dallas RSA CA OU=Information Security Office O=The University of Texas at Dallas L=Richardson ST=TX C=US	C18C5714E486189DD2C3E6F563C5A97434D0CE0A539330F23F58213EB8568AB2	2/27/2015	2/26/2025
CN=The University of Texas Health Science Center at Houston RSA CA O=The University of Texas Health Science Center at Houston L=Houston ST=TX C=US	029523842D23EF395F5729E352522F80426585180BD36768C1ACADD22D8EA7DA	2/27/2015	2/26/2025
CN=The University of Texas-Pan American RSA CA OU=Information Technology O=The University of Texas-Pan American L=Edinburg ST=TX C=US	920CBCE9BD55D3CA8D446808A59EDF3C222AD5767A4453C686EE3C6F94F55BCE	2/27/2015	2/26/2025



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=TI Trust Technologies Client CA O=TI Trust Technologies S.R.L. L=Pomezia ST=Roma C=IT	65ADC9C691D32155E68CE8D5193BF372295D25A04075457B31EE85A0441B23F8	7/30/2019	7/29/2029
CN=TrustAsia RSA Secure Client and Email CA O=TrustAsia Technologies, Inc. ST=Shanghai C=CN	E18CF8D5299188752B16F3E3C3CD8673619046E2F1B9E088DAB5D3116AEA61BD	3/11/2015	3/10/2025
CN=TrustOcean Organization Client Certification CA O=TrustOcean Limited C=US	6608E848E63A6820609B855C22324F6B8CB153EDCC80133254D7156BC3D3A026	1/29/2020	1/28/2030
CN=University of Texas Health Science Center at San Antonio RSA CA O=The University of Texas Health Science Center at San Antonio L=San Antonio ST=TX C=US	2D06B1B5E7350D949A0BD58053DFED6F0260AE5315D4132A0CC83FF0895C93CA	2/27/2015	2/26/2025
CN=USERTrust RSA Client Authentication and Secure Email CA O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	433D103DE099CC3F3414D004F870F4DA5C9E7F41A48BA8ACBAF3F91EEFCB0D60	9/12/2014	9/11/2029
CN=USERTrust RSA Extended Validation Secure Server CA O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	125A5FD7C640D5E59F5CE5763CD8C932F5E597DDDC4EAF1D59667CF4B556A237	2/12/2012	2/11/2027
CN=USERTrust RSA Extended Validation Secure Server CA O=The USERTRUST Network L=Jersey City ST=New Jersey C=US	5367692ECE62B758D04D9B7E6DFB0DB307F859EBC6A6CB5F77FF24561D7CC004	2/12/2012	2/11/2027
CN=Valid Certificadora RSA Secure Email CA O=Valid Certificadora Digital LTDA C=BR	306FA9611D44DB08B6276C34C07A7C24E2CB0AA9512CF4AE1036E2223B65129	8/2/2023	8/1/2033



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=Verokey Assured ID and Secure Email O=Verokey C=AU	03375E02E15A4D8887A382E554A739928B827A4C1B5D2EE7A57A252E22117700	6/25/2021	6/24/2031
CN=XinChaCha Trust Client O=Beijing Xinchacha Credit Management Co., Ltd. C=CN	8888FB2CF867B85B07968D540C4F2700045C1F954E63DEAFA614B77900D9388E	8/24/2022	8/23/2032
CN=ZoTrus Client CA O=ZoTrus Technology Limited C=CN	8328829116390913F0CF7D1810DD84B41FA0B493D421C3F192D39CBF55C5B27A	9/13/2021	9/12/2031
CN=ZwTrus Client CA O=北京中万网络科技有限责任公司 C=CN	C90F5F9BA11E1370818E71F62752476A66916BFBAC29D8F0D155AB7A620D091B	6/6/2022	6/5/2032
CN=上海锐成信息科技有限公司 Secure Email CA O=上海锐成信息科技有限公司 C=CN	80077665338A009789F842F3403647A71536C1FB264F35DAECEC0193E6508E0E	6/9/2020	6/9/2030
CN=时代互联 RSA Secure Email CA O=广东时代互联科技有限公司 C=CN	FBB8107CACE356051AD04B63B830904BF7882ACE8DC1A248A5ABB75F1A744954	8/2/2023	8/1/2033
CN=纳网 RSA Secure Email CA O=厦门纳网科技股份有限公司 C=CN	8C917F3CD9465EECF80F336352A1FB89045BCD19783351F159252C50A2A62B1A	5/20/2023	5/19/2033
CN=COMODO/HP Secure Email CA O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	FD029ADE3F7A80A98D6FFFC9429046585EF1D8CB8193A17F6214317D0652D7C3	9/11/2007	12/31/2028
CN=COMODO/PKWARE Secure Email CA O=COMODO CA Limited L=Salford ST=Greater Manchester C=GB	C0A1CA36475D33B471E4E58E5574DD9294D354C457295954DB555B24EAD2AA4B	11/13/2007	12/31/2028
CN=DREAMHOST SECURE EMAIL CA O=DREAMHOST CERTIFICATION AUTHORITY C=US	E904A057D839BCBE631092B4215DD8CC4F8849BA87B51AAF2728B71E64ACE751	3/4/2009	12/31/2028
CN=EuropeanSSL Client CA O=EUNETIC GmbH C=DE	2618C415C146BA98A5F0AD7EA498AA58780BA55FA8E3B072D13C330D41010717	7/18/2008	12/31/2028



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Subordinate CA Certificates			
Subject DN	SHA-256 Thumbprint	Valid From	Valid To
CN=Gandi Secure Email CA O=GANDI SAS C=FR	F017E510918B77DA67E4D020E2B76A42461876E822F620C5573BCBC3BBB37406	10/23/2008	12/31/2028
CN=GlobalSSL Secure E-Mail and Client Authentication CA O=GlobalSSL C=DE	4F2C0C1701BDE01B6BEEDA6D17C336042421AF73117063347F7E97B76AD897F5	8/11/2009	12/31/2028
CN=GLOBE SSL SECURE EMAIL CA O=GLOBE HOSTING CERTIFICATION AUTHORITY C=RO	8F7240F160936F1FD406BF028B35B5D609B64B3BD0E31E13CC6DD9AB7CA12E6F	2/23/2009	12/31/2028
CN=Open Finance Network O=Open Finance Network postalCode=28203 C=US	FE333670664A02CBA1037CAE5EEE327D412956BCC5743BD9BF92BE18031887A	11/26/2008	12/31/2028
CN=SGTRUST EMAIL AND CLIENT CA O=SGssl C=KR	5F0A35BA4F84A65F68B16D4A33F6517C097708393EAAFD2856FB9A93418719F4	7/3/2009	12/31/2028
CN=State of Oregon Office of State Treasurer CA OU=Office of State Treasurer O=State of Oregon L=Salem ST=OR C=US	4B3EEC502338390167E6E81DA2F267A3A7F650186842B4E2AD849DECB95F4E32	4/28/2008	12/31/2028
CN=TERENA eScience Personal CA O=TERENA C=NL	F405077C7174703B9781C79544A7BE994263854D15173E61A8D19A28CF7A4AB1	5/18/2009	12/31/2028
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CN=The Code Project Secure Email (S/mime) CA O=The Code Project C=CA	F68A23EB9737A8C744EE67112F2FC024AADC503BBB04F25CDED4F2576C93485	9/5/2008	12/31/2028