



Certificate Authority Trust List

Cisco Desk Phone 9800 Series and Cisco Video Phone 8875

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The Certificate Authorities for your phone depend on the calling system to which the phone is registered and the firmware version on your phone.

This file is for PhoneOS Release 4.1 and includes two lists:

- Trust list for on-premises phones on Cisco Unified Communications Manager (see page 2-13)
- Trust list for multiplatform phones on Cisco BroadWorks or a third-party Open SIP platform (see page 13-27)

CA trust list for Cisco Unified Communications Manager

| Fingerprint | Subject |
|--|---|
| 604d32d036895aed3bfefaeb727c009ec0f2b3cdfa42a1c71730e6a72c3be9d4 | CN=MULTICERT Root Certification Authority 01,O=MULTICERT - Serviços de Certificação Electrónica S.A.,C=PT |
| 02ed0eb28c14da45165c566791700d6451d7fb56f0b2ab1d3b8eb070e56edff5 | CN=Entrust Root Certification Authority - EC1,OU=(c) 2012 Entrust\, Inc. - for authorized use only,OU=See www.entrust.net/legal-terms,O=Entrust\, Inc.,C=US |
| f1c1b50ae5a20dd8030ec9f6bc24823dd367b5255759b4e71b61fce9f7375d73 | CN=SecureTrust CA,O=SecureTrust Corporation,C=US |
| 4348a0e9444c78cb265e058d5e8944b4d84f9662bd26db257f8934a443c70161 | CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US |
| e6be68ce06fe0da0c140f1aeb00b67b636c5eea9422088929362375ce086db39 | CN=Visa Public ECC Root CA,OU=Visa International Service Association,O=VISA,C=US |
| a040929a02ce53b4acf4f2ffc6981ce4496f755e6d45fe0b2a692bcd52523f36 | CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR |
| 552f7bdcf1a7af9e6ce672017f4f12abf77240c78e761ac203d1d9d20ac89988 | CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US |
| 44b545aa8a25e65a73ca15dc27fc36d24c1cb9953a066539b11582dc487b4833 | CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR |
| 5c58468d55f58e497e743982d2b50010b6d165374acf83a7d4a32db768c4408e | CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL |
| a7c8681042f3675aa8505d3ba313d80f8ac3250fdf874ad29b834689c087fb11 | CN=NAVER Cloud Trust Services ECC Root G1,O=NAVER Cloud Trust Services Corp.,C=KR |
| 1a0d20445de5ba1862d19ef880858cbce50102b36e8f0a040c3c69e74522fe6e | CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB |
| 554153b13d2cf9ddb753bfbe1a4e0ae08d0aa4187058fe60a2b862b2e4b87bcb | CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES |
| eec997c0c30f216f7e3b8b307d2bae42412d753fc8219dafd1520b2572850f49 | CN=OISTE Server Root ECC G1,O=OISTE Foundation,C=CH |
| 08170d1aa36453901a2f959245e347db0c8d37abaabc56b81aa100dc958970db | CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE |
| be4b56cb5056c0136a526df444508daa36a0b54f42e4ac38f72af470e479654c | CN=TrustAsia Global Root CA G4,O=TrustAsia Technologies\, Inc.,C=CN |

| Fingerprint | Subject |
|--|---|
| 97552015f5ddfc3c8788c006944555408894450084f100867086bc1a2bb58dc8 | CN=Trustwave Global Certification Authority,O=Trustwave Holdings\, |
| f1b52392c4a4ec2a8709b1308304a911ffcec2ce0b63a94fbe969164567c4925 | CN=Cisco Licensing Root CA,O=Cisco |
| 50df022dfa477185b4032a19196cb9840e29a87298830c5962d23f9b0a07dd5e | CN=Internal Private Root,O=Cisco,OU=Corvus |
| 647987d98d52645da4d3de3b80771a0ce02b9b9285e6e86999882170744ec9aa | CN=Entrust 4K EV TLS Root CA - 2022,O=Entrust\, Inc.,C=US |
| 4b009c1034494f9ab56bba3ba1d62731fc4d20d8955adcec10a925607261e338 | CN=SecureSign Root CA14,O=Cybertrust Japan Co.\, Ltd.,C=JP |
| 7a77c6c61eeeb9aa65c4ea410d65d895b26a81123283009db104b48de80b2479 | CN=OATI WebCARES Root CA,O=Open Access Technology International Inc,L=Minneapolis,ST=MN,C=US |
| 1793927a0614549789adce2f8f34f7f0b66d0f3ae3a3b84d21ec15dbba4fad7 | CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB |
| 96bcec06264976f37460779acf28c5a7cfe8a3c0aae11a8ffcee05c0bddf08c6 | CN=ISRG Root X1,O=Internet Security Research Group,C=US |
| fb8fec759169b9106b1e511644c618c51304373f6c0643088d8beffd1b997599 | CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,2.5.4.5=G63287510 |
| 7431e5f4c3c1ce4690774f0b61e05440883ba9a01ed00ba6abd7806ed3b118cf | CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert |
| 0da80cc491638f8c756396e0afac16079829fa06697bfe6d7ee93a6a0c9e212d | CN=IT Private Root CA,O=Cisco,OU=Phoenix |
| 1501f89c5c4dcf36cf588a17c9fd7cfceb9ee01e8729be355e25de80eb6284b4 | C=ES,O=EDICOM,CN=CAEDICOM Root |
| cbb522d7b7f127ad6a0113865bdf1cd4102e7d0759af635a7cf4720dc963c53b | CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3 |
| c2157309d9aee17bf34f4df5e88dbaeba57e0361eb814cbc239f4d54d329a38d | CN=Főtanúsítványkiadó - Kormányzati Hitelesítés Szolgáltató,O=NISZ Nemzeti |
| 24a55c2ab051442d0617766541239a4ad032d7c55175aa34ffde2fbc4f5c5294 | CN=Security Communication RootCA3,O=SECOM Trust Systems |
| 1465fa205397b876faa6f0a9958e5590e40fcc7faa4fb7c2c8677521fb5fb658 | OU=Starfield Class 2 Certification Authority,O=Starfield Technologies\, |
| c1468cf2254e6004b24696aba209d1a30ba6e2dff68a9a4e32c6ab414f90c8d9 | CN=DigiCert ECC P384 Root G5,O=DigiCert\, Inc.,C=US |
| 8f9adb6d895dab5adf5c3d3fab83927be0fb64ef82485c62280d584e8bd55d22 | CN=Swedish Government Root Authority v3,O=Swedish Social Insurance Agency,C=SE |
| 0a81ec5a929777f145904af38d5d509f66b5e2c58fcd531058b0e17f3f0b41b | CN=AffirmTrust Networking,O=AffirmTrust,C=US |
| 49a2762987788d4834b32305d767760f244d507742e8c2539fd4ca3ad52c16ee | CN=NAVER Cloud Trust Services RSA Root G1,O=NAVER Cloud Trust Services Corp.,C=KR |
| 574df6931e278039667b720afdc1600fc27eb66dd3092979fb73856487212882 | CN=BJCA Global Root CA2,O=BEIJING CERTIFICATE AUTHORITY,C=CN |

| Fingerprint | Subject |
|--|--|
| dec669e322e07cd7c60a56904bf50c29fa1e75071723fc103577e27b226968d5 | CN=TRS Bundle Root CA,O=Cisco |
| e7e12793643f18bee5b8e53ab5803bb3d59d8e63d14ce6346c004b0dfa34fecc | CN=Cisco Root CA 2099,O=Cisco |
| 018e13f0772532cf809bd1b17281867283fc48c6e13be9c69812854a490c1b05 | CN=DigiCert TLS ECC P384 Root G5,O=DigiCert\, Inc.,C=US |
| 6ec6614e9a8efd47d6318ffdfd0bf65b493a141f77c38d0b319be1bbbc053dd2 | CN=Swiss Government Root CA I,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH |
| 349dfa4058c5e263123b398ae795573c4e1313c83fe68f93556cd5e8031b3c7d | CN=GTS Root R4,O=Google Trust Services LLC,C=US |
| c32ffd9f46f936d16c3673990959434b9ad60aafbb9e7cf33654f144cc1ba143 | CN=SSL.com TLS ECC Root CA 2022,O=SSL Corporation,C=US |
| 063e4afac491dfd332f3089b8542e94617d893d7fe944e10a7937ee29d9693c0 | CN=Chambers of Commerce Root - 2008,O=AC Camerfirma |
| f356bea244b7a91eb35d53ca9ad7864ace018e2d35d5f8f96ddf68a6f41aa474 | C=DE,O=Atos,CN=Atos TrustedRoot 2011 |
| 9d55e2bade8ef7871cdc9e3dcabc0d92d50cd2602c0a70d573178d990a84cb71 | CN=Cisco Basic Assurance SUDI Root CA RSA 4096 2099,O=Cisco |
| 2e7bf16cc22485a7bbe2aa8696750761b0ae39be3b2fe9d0cc6d4ef73491425c | CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US |
| 847df6a78497943f27fc72eb93f9a637320a02b561d0a91b09e87a7807ed7c61 | CN=Microsoft Root Certificate Authority 2011,O=Microsoft |
| f9a17a00e5c294ba9614a715819af57f3fd48cc413453fbb8a5fc7e97964e2bc | C=CZ,2.5.4.97=NTRCZ-26439395,O=První certifikační autorita\, a.s.,CN=I.CA |
| be6c4da2bbb9ba59b6f3939768374246c3c005993fa98f020d1dedbed48a81d5 | CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH |
| 43df5774b03e7fef5fe40d931a7bedf1bb2e6b42738c4e6d3841103d3aa7f339 | CN=Entrust Root Certification Authority - G2,OU=(c) 2009 Entrust\, Inc. - for |
| 3e9099b5015e8f486c00bcea9d111ee721faba355a89bcf1df69561e3dc6325c | CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US |
| 46edc3689046d53a453fb3104ab80dcaec658b2660ea1629dd7e867990648716 | CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon |
| 3f99cc474acfce4dfed58794665e478d1547739f2e780f1bb4ca9b133097d401 | CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research |
| 4200f5043ac8590ebb527d209ed1503029fbc41ca1b506ec27f15ade7dac69 | CN=Secure Global CA,O=SecureTrust Corporation,C=US |
| 229ccc196d32c98421cc119e78486eebef603aecd525c6b88b47abb740692b96 | CN=Cisco RXC-R2,O=Cisco Systems,C=US |
| d48d3d23eedb50a459e55197601c27774b9d7b18c94d5a059511a10250b93168 | CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR |

| Fingerprint | Subject |
|--|--|
| 2e44102ab58cb85419451c8e19d9acf3662cafbc614b6a53960a30f7d0e2eb41 | CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN |
| 77b82cd8644c4305f7acc5cb156b45675004033d51c60c6202a8e0c33467d3a0 | CN=Certainly Root R1,O=Certainly,C=US |
| 873f4685fa7f563625252e6d36bcd7f16fc24951f264e47e1b954f4908cdca13 | CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR |
| 41c923866ab4cad6b7ad578081582e020797a6cbdf4fff78ce8396b38937d7f5 | CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH |
| 5cc3d78e4e1d5e45547a04e6873e64f90cf9536d1ccc2ef800f355c4c5fd70fd | CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN |
| 8327bc8c9d69947b3de3c27511537267f59c21b9fa7b613fafbccd53b7024000 | CN=Cisco Root CA 2048,O=Cisco Systems |
| 1cf341ae35341ac3ae1dc68d5b10dc0c9dc1307656f75fd92ca2c68489d52e9a | CN=MOIS SSL Root CA,O=Ministry of the Interior and Safety,C=KR |
| b676f2eddae8775cd36cb0f63cd1d4603961f49e6265ba013a2f0307b6d0b804 | CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL |
| 97f654859cbde586fd90311e82ec7902c238cba0d6e529564c9c88f44895ec50 | CN=ACA ROOT,O=CONSEJO GENERAL DE LA |
| 3c4fb0b95ab8b30032f432b86f535fe172c185d0fd39865837cf36187fa6f428 | CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL |
| dd6936fe21f8f077c123a1a521c12224f72255b73e03a7260693e8a24b0fa389 | CN=TeliaSonera Root CA v1,O=TeliaSonera |
| 45140b3247eb9cc8c5b4f0d7b53091f73292089e6e5a63e2749dd3aca9198eda | CN=Go Daddy Root Certificate Authority - G2,O=GoDaddy.com\, |
| 34d8a73ee208d9bcdb0d956520934b4e40e69482596e8b6f73c8426b010a6f48 | CN=GTS Root R3,O=Google Trust Services LLC,C=US |
| 73c176434f1bc6d5adf45b0e76e727287c8de57616c1e6e6141a2b2cbc7d8e4c | CN=Entrust Root Certification Authority,OU=(c) 2006 Entrust\, Inc.,OU=www.entrust.net/CPS is incorporated by reference,O=Entrust\, Inc.,C=US |
| 657cfe2fa73faa38462571f332a2363a46fce7020951710702cdfbb6eeda3305 | OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO |
| 34bb34e14faed0d3392f2fc441c0ecd5fd88ad88118df2d1ba76cdec1eea10b8 | OU=Saudi National Root CA,O=National Center for Digital Certification,C=SA |
| 7d05ebb682339f8c9451ee094eebfefa7953a114edb2f44949452fab7d2fc185 | CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US |
| 5e4b0e86fcd405d155e6740553b56ded9c598f9be235797693ab3022e268282 | CN=Cisco Secure Access Root CA,O=Cisco,OU=Horologium |
| 85666a562ee0be5ce925c1d8890a6f76a87ec16d4d7d5f29ea7419cf20123b69 | CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US |

| Fingerprint | Subject |
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| e35d28419ed02025cfa69038cd623962458da5c695fbdea3c22b0bfb25897092 | CN=Amazon Root CA 4,O=Amazon,C=US |
| 2cabeafe37d06ca22aba7391c0033d25982952c453647349763a3ab5ad6ccf69 | CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6 |
| dd6c44b39401b053dbe61120748bbb0f6056007665c168e5c286750edc8df129 | CN=Entrust 4K TLS Root CA - 2022,O=Entrust\, Inc.,C=US |
| d8e0febcb1db2e38d00940f37d27d41344d993e734b99d5656d9778d4d8143624 | CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL |
| 193144f431e0fddb740717d4de926a571133884b4360d30e272913cbe660ce41 | CN=SwissSign RSA TLS Root CA 2022 - 1,O=SwissSign AG,C=CH |
| 6e0bff069a26994c15de2c4888cc54af84882e5495b7fbf66be9ccffec7489f6 | CN=Autoridade Certificadora Raiz Brasileira v10,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR |
| 8560f91c3624daba9570b5fea0dbe36ff11a8323be9486854fb3f34a5571198d | CN=OISTE WISEKey Global Root GC CA,OU=OISTE Foundation |
| 4ff460d54b9c86dabfbcfc5712e0400d2bed3fbc4d4fbdad86e06adcd2a9ad7a | CN=USERTrust ECC Certification Authority,O=The USERTRUST |
| 5d56499be4d2e08bcfcad08a3e38723d50503bde706948e42f55603019e528ae | CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US |
| 49e7a442acf0ea6287050054b52564b650e4f49e42e348d6aa38e039e957b1c1 | CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE |
| 8a866fd1b276b57e578e921c65828a2bed58e9f2f288054134b7f1f4bfc9cc74 | CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM |
| 34ff2a4409dc1383e9f8966e8adfe5719eba373fd0ad5e2f49f90ee07cf5d4c1 | CN=VRK Gov. Root CA - G2,OU=Varmennepalvelut,OU=Certification Authority |
| 8a71de6559336f426c26e53880d00d88a18da4c6a91f0dcb6194e206c5c96387 | CN=vTrus Root CA,O=iTrusChina Co.\,Ltd.,C=CN |
| e793c9b02fd8aa13e21c31228accb08119643b749c898964b1746d46c3d4cbd2 | CN=USERTrust RSA Certification Authority,O=The USERTRUST |
| b724689b79b2ef9421ef8f5cc733eb093851b170ee715177005a09f226d8c91a | CN=CCA India 2022 SPL,O=India PKI,C=IN |
| 15d5b8774619ea7d54ce1ca6d0b0c403e037a917f131e8a04e1e6b7a71babce5 | CN=GTS Root R3,O=Google Trust Services LLC,C=US |
| 2530cc8e98321502bad96f9b1fba1b099e2d299e0f4548bb914f363bc0d4531f | CN=lzenpe.com,O=IZENPE S.A.,C=ES |
| 68ad50909b04363c605ef13581a939ff2c96372e3f12325b0a6861e1d59f6603 | CN=Verizon Global Root CA,OU=OmniRoot,O=Verizon Business,C=US |
| 568d6905a2c88708a4b3025190edcfedb1974a606a13c6e5290fcb2ae63edab5 | CN=Starfield Services Root Certificate Authority - G2,O=Starfield |
| 6b9c08e86eb0f767cfad65cd98b62149e5494a67f5845e7bd1ed019f27b86bd6 | CN=OISTE WISEKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH |
| 18ce6cfe7bf14e60b2e347b8dfe868cb31d02ebb3ada271569f50343b46db3a4 | CN=Amazon Root CA 3,O=Amazon,C=US |
| cbb9c44d84b8043e1050ea31a69f514955d7bfd2e2c6b49301019ad61d9f5058 | CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE |
| 705eaafc3ff488030017d59832603eefad514171b583808675f45c190e6378f8 | CN=Cisco Root CA M1,O=Cisco |

| Fingerprint | Subject |
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| c741f70f4b2a8d88bf2e71c14122ef53ef10eba0cfa5e64cfa20f418853073e0 | CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US |
| d3d607a9ff24a19523b6da9d2c649446f8788cb96d9fd130972e120c13677730 | 2.5.4.5=NTRCZ-26439395,CN=I.CA Root CA/RSA,O=První certifikační |
| d95d0e8eda79525bf9beb11b14d2100d3294985f0c62d9fabd9cd999eccb7b1d | CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR |
| df545bf919a2439c36983b54cdfc903dfa4f37d3996d8d84b4c31eec6f3c163e | CN=Microsoft Root Certificate Authority 2010,O=Microsoft |
| b085d70b964f191a73e4af0d54ae7a0e07aafdaf9b71dd0862138ab7325a24a2 | CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4 |
| e3b6a2db2ed7ce48842f7ac53241c7b71d54144bfb40c11f3f1d0b42f5eea12d | CN=Certigna,O=Dhimyotis,C=FR |
| 4be8b5a1c76c6aead0611918fccf9dbd398b67fb12294758bdf994d0f9682f60 | CN=ANCERT Certificados Notariales V2,O=Agencia Notarial de Certificacion |
| ef66b0b10a3cdb9f2e3648c76bd2af18ead2bfe6f117655e28c4060da1a3f4c2 | CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR |
| 8ac552ad577e37ad2c6808d72aa331d6a96b4b3febff34ce9bc0578e08055ec3 | CN=A-Trust-Root-07,OU=A-Trust-Root-07,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT |
| f015ce3cc239bfef064be9f1d2c417e1a0264a0a94be1f0c8d121864eb6949cc | CN=HiPKI Root CA - G1,O=Chunghwa Telecom Co., Ltd.,C=TW |
| 41dfd9c52d71f6a2c7f1083aa8f80153ff6ec23349d2599de347adbe423504f3 | CN=Internal Customer Root CA,O=Cisco,OU=Arcturus |
| e46a392204a8dca342a71c1ca9a60c9185b9a930370120c3b9c7e3856f0d8f3b | CN=DigiCert RSA4096 Root G5,O=DigiCert, Inc.,C=US |
| 69729b8e15a86efc177a57afb7171dfc64add28c2fca8cf1507e34453ccb1470 | CN=ISRG Root X2,O=Internet Security Research Group,C=US |
| 125609aa301da0a249b97a8239cb6a34216f44dcac9f3954b14292f2e8c8608f | CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US |
| eb7e05aa58e7bd328a282bf8867033f3c035342b516ee85c01673dffffbbfe58 | CN=NetLock Platina (Class Platinum) Főtanúsítvány,OU=Tanúsítványkiadók (Certification Services),O=NetLock Kft.,L=Budapest,C=HU |
| 3fd4be8baad2f26e1bde06c7584bb720dd1a972d111f5a4999bc44b08fb4960d | CN=Microsoft ECC TS Root Certificate Authority 2018,O=Microsoft |
| 6e1fd3ae0d2d477c8f5ee5f335cc5b6356872654e5356a73d8c0a30a17c252a2 | CN=QuoVadis TLS ECC P384 Root G4,O=QuoVadis Trustlink B.V.,C=NL |
| d43af9b35473755c9684fc06d7d8cb70ee5c28e773fb294eb41ee71722924d24 | CN=UCA Extended Validation Root,O=UniTrust,C=CN |
| 0c2cd63df7806fa399ede809116b575bf87989f06518f9808c860503178baf66 | CN=COMODO Certification Authority,O=COMODO CA |
| 81a9088ea59fb364c548a6f85559099b6f0405efbf18e5324ec9f457ba00112f | C=DE,O=Atos,CN=Atos TrustedRoot Root CA RSA TLS 2021 |

| Fingerprint | Subject |
|--|--|
| 136335439334a7698016a0d324de72284e079d7b5220bb8fbd747816eebebac | CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,2.5.4.5=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU |
| 9bea11c976fe014764c1be56a6f914b5a560317abd9988393382e5161aa0493c | CN=UCA Global G2 Root,O=UniTrust,C=CN |
| 358df39d764af9e1b766e9c972df352ee15cfac227af6ad1d70e8e4a6edcba02 | CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft |
| bd71fdf6da97e4cf62d1647add2581b07d79adf8397eb4ecba9c5e8488821423 | CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US |
| 1e51942b84fd467bf77d1c89da241c04254dc8f3ef4c22451fe7a89978bdcd4f | CN=ePKI Root Certification Authority - G2,O=Chunghwa Telecom Co.\, |
| cb3ccbb76031e5e0138f8dd39a23f9de47ffc35e43c1144cea27d46a5ab1cb5f | CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US |
| a1339d33281a0b56e557d3d32b1ce7f9367eb094bd5fa72a7e5004c8ded7cafe | CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL |
| b4585f22e4ac756a4e8612a1361c5d9d031a93fd84febb778fa3068b0fc42dc2 | CN=Certainly Root E1,O=Certainly,C=US |
| 945bbc825ea554f489d1fd51a73ddf2ea624ac7019a05205225c22a78ccfa8b4 | CN=Trustwave Global ECC P256 Certification Authority,O=Trustwave Holdings\, Inc.,L=Chicago,ST=Illinois,C=US |
| 3f034bb5704d44b2d08545a02057de93ebf3905fce721acbc730c06ddaee904e | CN=SecureSign Root CA12,O=Cybertrust Japan Co.\, Ltd.,C=JP |
| 8fe4fb0af93a4d0d67db0bebb23e37c71bf325dcbcd240ea04daf58b47e1840 | CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM |
| 57de0583efd2b26e0361da99da9df4648def7ee8441c3b728afa9bcde0f9b26a | CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES |
| 420332ef876ebe78f2af5d28aacde24aad0c10f8ffaac469efd7bd941929568 | CN=Entrust P384 TLS Root CA - 2022,O=Entrust\, Inc.,C=US |
| 86a1ecba089c4a8d3bbe2734c612ba341d813e043cf9e8a862cd5c57a36bbe6b | CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN |
| 513b2cecb810d4cde5dd85391adfc6c2dd60d87bb736d2b521484aa47a0ebef6 | OU=Security Communication RootCA2,O=SECOM Trust Systems |
| c0a6f4dc63a24bfdcf54ef2a6a082a0a72de35803e2ff5ff527ae5d87206dfd5 | OU=ePKI Root Certification Authority,O=Chunghwa Telecom Co.\, Ltd.,C=TW |
| 0376ab1d54c5f9803ce4b2e201a0ee7eef7b57b636e8a93c9b8d4860c96f5fa7 | CN=AffirmTrust Commercial,O=AffirmTrust,C=US |
| cecddc905099d8dadfc5b1d209b737cbe2c18cfb2c10c0ff0bcf0d3286fc1aa2 | CN=XRamp Global Certification Authority,O=XRamp Security Services |
| 88497f01602f3154246ae28c4d5aef10f1d87ebb76626f4ae0b7f95ba7968799 | CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu |
| a7dedf5a842167dd12fdaa0f2080e73295b8b8bea71b2094ea0950945a482fc1 | CN=AffirmTrust 4K TLS Root CA - 2022,O=AffirmTrust,C=CA |
| 40f6af0346a99aa1cd1d555a4e9cce62c7f9634603ee406615833dc8c8d00367 | CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign |

| Fingerprint | Subject |
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| db3517d1f6732a2d5ab97c533ec70779ee3270a62fb4ac4238372460e6f01e88 | CN=Entrust Root Certification Authority - G4,OU=(c) 2015 Entrust\, Inc. - for authorized use only,OU=See www.entrust.net/legal-terms,O=Entrust\, Inc.,C=US |
| 5546a52504fba74f61ffd4890067529ade3b9c9d07e502592831ccda9b369fd3 | CN=DVV Gov. Root CA - G3 ECC,OU=Varmennepalvelut,OU=Certification |
| 5e3571f33f45a7df1537a68b5ffb9e036af9d2f5bc4c9717130dc43d7175aac7 | 1.2.840.113549.1.9.1=info@globaltrust.info,CN=GLOBALTRUST,OU=GLOBALT |
| 242b69742fcb1e5b2abf98898b94572187544e5b4d9911786573621f6a74b82c | CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI |
| fe7696573855773e37a95e7ad4d9cc96c30157c15d31765ba9b15704e1ae78fd | CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco |
| 30fbba2c32238e2a98547af97931e550428b9b3f1c8eeb6633dcfa86c5b27dd3 | CN=vTrus ECC Root CA,O=iTrusChina Co.\,Ltd.,C=CN |
| 2a99f5bc1174b73cbb1d620884e01c34e51ccb3978da125f0e33268883bf4158 | CN=Certinomis - Root CA,OU=0002 433998903,O=Certinomis,C=FR |
| 578af4ded0853f4e5998db4aeaf9cbea8d945f60b620a38d1a3c13b2bc7ba8e1 | CN=Telekom Security TLS ECC Root 2020,O=Deutsche Telekom Security GmbH,C=DE |
| fad540811afae0dc767cdf6572a088fa3ce8493dd82b3b869a67d10aab4e8124 | CN=SI-TRUST Root,2.5.4.97=VATSI-17659957,O=Republika Slovenija,C=SI |
| d7a7a0fb5d7e2731d771e9484ebcdef71d5f0c3e0a2948782bc83ee0ea699ef4 | CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB |
| d3ed3fc40ad26b52e001e1e18f4b9449529deb75a81d5eb680d7b62db23ba96d | CN=DVV Gov. Root CA - G3 RSA,OU=Varmennepalvelut,OU=Certification Authority Services,O=Digi- ja vaestotietovirasto CA,C=FI |
| 8e8221b2e7d4007836a1672f0dcc299c33bc07d316f132fa1a206d587150f1ce | CN=D-TRUST EV Root CA 2 2023,O=D-Trust GmbH,C=DE |
| ebc5570c29018c4d67b1aa127baf12f703b4611ebc17b7dab5573894179b93fa | OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES |
| ebd41040e4bb3ec742c9e381d31ef2a41a48b6685c96e7cef3c1df6cd4331c99 | CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE |
| beb00b30839b9bc32c32e4447905950641f26421b15ed089198b518ae2ea1b99 | CN=e-Szigno Root CA 2017,2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU |
| 59769007f7685d0fcd50872f9f95d5755a5b2b457d81f3692b610a98672f0e1b | CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW |
| 70a73f7f376b60074248904534b11482d5bf0e698ecc498df52577ebf2e93b9a | CN=AffirmTrust Premium,O=AffirmTrust,C=US |
| caca93b9d23d2b6fa76e8b8471931e0df3ec6f63af3cddb936c41954a1872326 | CN=Microsoft ECC Product Root Certificate Authority 2018,O=Microsoft Corporation,L=Redmond,ST=Washington,C=US |
| 3a6308acd77a5a33d8da04d669fa00f8e5ae153f259087678b76bf1654b30a06 | CN=Cisco ECC Root CA,O=Cisco |

| Fingerprint | Subject |
|--|---|
| c8a2d38a24f5ac302d8a08ebd38923d9a750b49220f092e82d1c53249e1533d0 | CN=QuoVadis TLS RSA 4096 Root G4,O=QuoVadis Trustlink B.V.,C=NL |
| bfd88fe1101c41ae3e801bf8be56350ee9bad1a6b9bd515edc5c6d5b8711ac44 | CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW |
| 04f1bec36951bc1454a904ce32890c5da3cde1356b7900f6e62dfa2041ebad51 | CN=CHAMBERS OF COMMERCE ROOT - 2016,O=AC CAMERFIRMA |
| cd85167b3935e27bcc3b0f5fa24c8457882d0bb994f88269a7f72829d957eae9 | CN=Cisco Root CA M2,O=Cisco |
| 65353833cf234c79562164f90849c0d104dbabf8ee41064d83e8cbe03ba1c5a5 | CN=Netrust Root CA 2,OU=Netrust Certificate Authority,O=Netrust Pte Ltd,C=SG |
| 3417bb06cc6007da1b961c920b8ab4ce3fad820e4aa30b9acbc4a74ebdcebc65 | CN=SSL.com Root Certification Authority ECC,O=SSL |
| c1d80ce474a51128b77e794a98aa2d62a0225da3f419e5c7ed73dfbf660e7109 | CN=GLOBAL CHAMBERSIGN ROOT - 2016,O=AC CAMERFIRMA |
| c3846bf24b9e93ca64274c0ec67c1ecc5e024ffcacd2d74019350e81fe546ae4 | OU=Go Daddy Class 2 Certification Authority,O=The Go Daddy Group\, |
| 2a8da2f8d23e0cd3b5871ecfb0f42276ca73230667f474eede71c5ee32cc3ec6 | CN=Thailand National Root Certification Authority - G1,OU=Thailand National |
| d947432abde7b7fa90fc2e6b59101b1280e0e1c7e4e40fa3c6887fff57a7f4cf | CN=GTS Root R1,O=Google Trust Services LLC,C=US |
| fd73dad31c644ff1b43bef0ccdda96710b9cd9875eca7e31707af3e96d522bbd | CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems |
| efc65cadbb59adb6efe84da22311b35624b71b3b1ea0da8b6655174ec8978646 | CN=Telekom Security TLS RSA Root 2023,O=Deutsche Telekom Security |
| 31ad6648f8104138c738f39ea4320133393e3a18cc02296ef97c2ac9ef6731d0 | CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US |
| 937ef8f12276b3c7a3f58e345d09a6eff01f862f8d2794441cd84d511825fa0c | CN=Entrust P384 EV TLS Root CA - 2022,O=Entrust\, Inc.,C=US |
| 371a00dc0533b3721a7eeb40e8419e70799d2b0a0f2c1d80693165f7cec4ad75 | CN=DigiCert TLS RSA4096 Root G5,O=DigiCert\, Inc.,C=US |
| 4fa3126d8d3a11d1c4855a4f807cbad6cf919d3a5a88b03bea2c6372d93c40c9 | CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE |
| bef256daf26e9c69bdec1602359798f3caf71821a03e018257c53c65617f3d4a | CN=FIRMAPROFESIONAL CA ROOT-A WEB,2.5.4.97=VATES-A62634068,O=Firmaprofesional SA,C=ES |
| e778f0f095fe843729cd1a0082179e5314a9c291442805e1fb1d8fb6b8886c3a | CN=SecureSign Root CA15,O=Cybertrust Japan Co.\, Ltd.,C=JP |
| b2fae53e14ccd7ab9212064701ae279c1d8988facb775fa8a008914e663988a8 | C=DE,O=Atos,CN=Atos TrustedRoot Root CA ECC TLS 2021 |
| 179fbc148a3dd00fd24ea13458cc43bfa7f59c8182d783a513f6ebec100c8924 | CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5 |
| 88f438dcf8ffd1fa8f429115ffe5f82ae1e06e0c70c375faad717b34a49e7265 | CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR |
| bc104f15a48be709dca542a7e1d4b9df6f054527e802eaa92d595444258afe71 | CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic |

| Fingerprint | Subject |
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| 2ce1cb0bf9d2f9e102993fbe215152c3b2dd0cabde1c68e5319b839154dbb7f5 | CN=Starfield Root Certificate Authority - G2,O=Starfield Technologies\, Inc.,L=Scottsdale,ST=Arizona,C=US |
| 30d0895a9a448a262091635522d1f52010b5867acae12c78ef958fd4f4389f2f | CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US |
| 6dc47172e01cbcb0bf62580d895fe2b8ac9ad4f873801e0c10b9c837d21eb177 | CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net |
| 6ab2ab75f51cb4f4f0156203fbf6f646232f514be059f62833308b82b4d72db1 | CN=SECOM TLS ECC Root CA 2024,O=SECOM Trust Systems Co.\, Ltd.,C=JP |
| 2605875afcc176b2d66dd66a995d7f8d5ebb86ce120d0e7e9e7c6ef294a27d4c | C=IL,O=ComSign Ltd.,CN=ComSign Global Root CA |
| 07cd9aa9064a9b94c6aef8fb784c1bbc1beda08acbe86878d781a39167626cf8 | CN=Visa Public RSA Root CA,OU=Visa International Service Association,O=VISA,C=US |
| 06c08d7dafd876971eb1124fe67f847ec0c7a158d3ea53cbe940e2ea9791f4c3 | CN=TrustAsia TLS RSA Root CA,O=TrustAsia Technologies\, Inc.,C=CN |
| c45d7bb08e6d67e62e4235110b564e5f78fd92ef058c840aea4e6455d7585c60 | CN=GTS Root R2,O=Google Trust Services LLC,C=US |
| 9ee289cc39971c15e94beb65142d360b5873feb970de1f9fda53ac26d10b25c6 | CN=IT Application Root CA,O=Cisco,OU=Pollux |
| f3896f88fe7c0a882766a7fa6ad2749fb57a7f3e98fb769c1fa7b09c2c44d5ae | CN=BJCA Global Root CA1,O=BEIJING CERTIFICATE AUTHORITY,C=CN |
| e23d4a036d7b70e9f595b1422079d2b91edfbb1fb651a0633eaa8a9dc5f80703 | CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK |
| 9a114025197c5bb95d94e63d55cd43790847b646b23cdf11ada4a00eff15fb48 | CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO |
| eec5496b988ce98625b934092eec2908bed0b0f316c2d4730c84eaf1f3d34881 | CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE |
| 5a2fc03f0c83b090bbfa40604b0988446c7636183df9846e17101a447fb8efd6 | CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK |
| 7e37cb8b4c47090cab36551ba6f45db840680fba166a952db100717f43053fc2 | CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US |
| 62dd0be9b9f50a163ea0f8e75c053b1eca57ea55c8688f647c6881f2c8357b95 | CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH |
| aaa962c4fa4a6bafefe415196d351ccd888d4f53f3fa8ae6d7c466a94e6042bb | OU=certSIGN ROOT CA,O=certSIGN,C=RO |
| 416b1f9e84e74c1d19b23d8d7191c6ad81246e641601f599132729f507beb3cc | CN=GLOBALTRUST 2015,OU=GLOBALTRUST Certification Service,O=e- |
| 85a0dd7dd720adb7ff05f83d542b209dc7ff4528f7d677b18389fea5e5c49e86 | CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM |
| 18f1fc7f205df8adddeb7fe007dd57e3af375a9c4d8d73546bf4f1fed1e18d35 | CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM |

| Fingerprint | Subject |
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| 5ab4fcd180b5b6af0d262a2375a2c77d25602015d96648756611e2e78c53ad3 | CN=Fina Root CA,O=Financijska agencija,C=HR |
| bc4d809b15189d78db3e1d8cf4f9726a795da1643ca5f1358e1ddb0edc0d7eb3 | CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US |
| d7ba3f4ff8ad05633451470dda3378a3491b90005e5c687d2b68d53647cfd66 | CN=Halcom Root Certificate Authority,2.5.4.97=VATSI-43353126,O=Halcom |
| 8faf7d2e2cb4709bb8e0b33666bf75a5dd45b5de480f8ea8d4bfe6bebc17f2ed | CN=SSL.com TLS RSA Root CA 2022,O=SSL Corporation,C=US |
| 88ef81de202eb018452e43f864725cea5fbd1fc2d9d205730709c5d8b8690f46 | CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM |
| 3c5f81fea5fab82c64bfa2eaecafcd8e077fc8620a7cae537163df36edbf378 | 1.2.840.113549.1.9.1=info@e-szigno.hu,CN=Microsec e-Szigno Root CA |
| 9a296a5182d1d451a2e37f439b74daafa267523329f90f9a0d2007c334e23c9a | CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT |
| 6c61dac3a2def031506be036d2a6fe401994fbd13df9c8d466599274c446ec98 | CN=NetLock Arany (Class Gold) Főtanúsítvány,OU=Tanúsítványkiadók |
| 55926084ec963a64b96e2abe01ce0ba86a64fbfebcc7aab5afc155b37fd76066 | CN=Actalis Authentication Root CA,O=Actalis |
| 04048028bf1f2864d48f9ad4d83294366a828856553f3b14303f90147f5d40ef | CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES |
| 0552e6f83fdf65e8fa9670e666df28a4e21340b510cbe52566f97c4fb94b2bd1 | CN=D-TRUST BR Root CA 2 2023,O=D-Trust GmbH,C=DE |
| d649c40830aab9869f2536ff933c4050746659b31dfa735405e4f7ad447c20d5 | CN=Cisco Basic Assurance Root CA 2099,O=Cisco |
| 2a575471e31340bc21581cbd2cf13e158463203ece94bcf9d3cc196bf09a5472 | CN=GTS Root R1,O=Google Trust Services LLC,C=US |
| 6b328085625318aa50d173c98d8bda09d57e27413d114cf787a0f5d06c030cf6 | CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data |
| 9a6ec012e1a7da9dbe34194d478ad7c0db1822fb071df12981496ed104384113 | C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1 |
| c0076b9ef0531fb1a656d67c4ebe97cd5dbaa41ef44598acc2489878c92d8711 | CN=TrustAsia TLS ECC Root CA,O=TrustAsia Technologies\, Inc.,C=CN |
| 407c276bead2e4af0661ef6697341dec0a1f9434e4eafb2d3d32a90549d9de4a | CN=GPKIRootCA1,OU=GPKI,O=Government of Korea,C=KR |
| 7a38f708a35a31e42e1cf3220f9a2d273e7666354618b2464657d43d8e77adc2 | CN=A-Trust-Root-09,OU=A-Trust-Root-09,O=A-Trust GmbH,C=AT |
| a3cc68595dfe7e86d8ad1772a8b5284add54ace3b8a798df47bccafb1fdb84df | CN=Hotspot 2.0 Trust Root CA - 03,O=WFA Hotspot 2.0,C=US |
| 8d25cd97229dbf70356bda4eb3cc734031e24cf00fafcd32dc76eb5841c7ea8 | CN=GTS Root R2,O=Google Trust Services LLC,C=US |
| 22a2c1f7bded704cc1e701b5f408c310880fe956b5de2a4a44f99c873a25a7c8 | CN=SSL.com EV Root Certification Authority ECC,O=SSL |
| edf7ebbca27a2a384d387b7d4010c666e2edb4843e4c29b4ae1d5b9332e6b24d | CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO |
| e74fbda55bd564c473a36b441aa799c8a68e077440e8288b9fa1e50e4bbaca11 | CN=Security Communication ECC RootCA1,O=SECOM Trust Systems CO.\,LTD.,C=JP |
| e0d3226aeb1163c2e48ff9be3b50b4c6431be7bb1eacc5c36b5d5ec509039a08 | CN=TrustAsia Global Root CA G3,O=TrustAsia Technologies\, Inc.,C=CN |
| 2399561127a57125de8cefea610ddf2fa078b5c8067f4e828290bfb860e84b3c | CN=VeriSign Universal Root Certification Authority,OU=(c) 2008 VeriSign\, Inc. - |
| 1435f225c5d252d7a21948cc3ce62aecfa88001e3dd72d1cc3555100eb372f93 | CN=SECOM TLS RSA Root CA 2024,O=SECOM Trust Systems Co.\, Ltd.,C=JP |

| Fingerprint | Subject |
|--|---|
| 71cca5391f9e794b04802530b363e121da8a3043bb26662fea4dca7fc951a4bd | CN=GTS Root R4,O=Google Trust Services LLC,C=US |
| 8ecde6884f3d87b1125ba31ac3fcb13d7016de7f57cc904fe1cb97c6ae98196e | CN=Amazon Root CA 1,O=Amazon,C=US |
| 55903859c8c0c3ebb8759ece4e2557225ff5758bbd38ebd48276601e1bd58097 | CN=Trustwave Global ECC P384 Certification Authority,O=Trustwave Holdings\, Inc.,L=Chicago,ST=Illinois,C=US |
| ac7f7862e685c7a7d9826a58ea32d183d4893fcc8f8fd6d900c9769a987e77f0 | CN=PostSignum Root QCA 4,O=Česká pošta\, s.p.,2.5.4.97=NTRCZ- |
| 1ba5b2aa8c65401a82960118f80bec4f62304d83cec4713a19c39c011ea46db4 | CN=Amazon Root CA 2,O=Amazon,C=US |
| bfff8fd04433487d6a8aa60c1a29767a9fc2bbb05e420f713a13b992891d3893 | CN=GDCA TrustAUTH R5 ROOT,O=GUANG DONG CERTIFICATE AUTHORITY |
| 209e956af04df3996507c887d356230d6eb49fdbdd2d8a058ff50b8f80f690aa | CN=Australian Defence Public Root |
| b49141502d00663d740f2e7ec340c52800962666121a36d09cf7dd2b90384fb4 | CN=e-Szigno TLS Root CA 2023,2.5.4.97=VATHU-23584497,O=Microsec |
| 9ae36232a5189ffddb353dfd26520c015395d22777dac59db57b98c089a651e6 | CN=OISTE Server Root RSA G1,O=OISTE Foundation,C=CH |
| c90f26f0fb1b4018b22227519b5ca2b53e2ca5b3be5cf18efe1bef47380c5383 | CN=Sectigo Public Server Authentication Root E46,O=Sectigo Limited,C=GB |
| bec94911c2955676db6c0a550986d76e3ba005667c442c9762b4fbb773de228c | CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4 |
| 3f63bb2814be174ec8b6439cf08d6d56f0b7c405883a5648a334424d6b3ec558 | CN=TWCA CYBER Root CA,OU=Root CA,O=TAIWAN-CA,C=TW |
| 7bb647a62aeeac88bf257aa522d01ffea395e0ab45c73f93f65654ec38f25a06 | CN=Sectigo Public Server Authentication Root R46,O=Sectigo Limited,C=GB |
| 3f548ce635f4fdcd819d6f237ce47bc42b01ae14db2b8733656eb52dcca49d6 | CN=Device Identity Basic Assurance Root CA 2099 |
| 52f0e1c4e58ec629291b60317f074671b85d7ea80d5b07273463534b32b40234 | CN=COMODO RSA Certification Authority,O=COMODO CA |
| e59aaa816009c22bff5b25bad37df306f049797c1f81d85ab089e657bd8f0044 | CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE |
| 91e2f5788d5810eba7ba58737de1548a8ecacd014598bc0b143e041b17052552 | CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems |
| f4336bc2ac75950beccf1c1f2f9da6dddafd1f41161ca71f59c76889bd474033 | CN=ANCERT Certificados CGN V2,O=Agencia Notarial de Certificación S.L.U. - CIF B83395988,C=ES |

CA trust list for Multiplatform Phones

| Fingerprint | Subject |
|--|---|
| 604d32d036895aed3bfefaeb727c009ec0f2b3cdfa42a1c71730e6a72c3be9d4 | CN=MULTICERT Root Certification Authority 01,O=MULTICERT - Serviços de Certificação Electrónica S.A.,C=PT |

| Fingerprint | Subject |
|--|---|
| 02ed0eb28c14da45165c566791700d6451d7fb56f0b2ab1d3b8eb070e56edff5 | CN=Entrust Root Certification Authority - EC1,OU=(c) 2012 Entrust\, Inc. - for authorized use only,OU=See www.entrust.net/legal-terms,O=Entrust\, Inc.,C=US |
| f1c1b50ae5a20dd8030ec9f6bc24823dd367b5255759b4e71b61fce9f7375d73 | CN=SecureTrust CA,O=SecureTrust Corporation,C=US |
| 4348a0e9444c78cb265e058d5e8944b4d84f9662bd26db257f8934a443c70161 | CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US |
| e6be68ce06fe0da0c140f1aeb00b67b636c5eea9422088929362375ce086db39 | CN=Visa Public ECC Root CA,OU=Visa International Service Association,O=VISA,C=US |
| a040929a02ce53b4acf4f2ffc6981ce4496f755e6d45fe0b2a692bcd52523f36 | CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR |
| 552f7bdcf1a7af9e6ce672017f4f12abf77240c78e761ac203d1d9d20ac89988 | CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US |
| 44b545aa8a25e65a73ca15dc27fc36d24c1cb9953a066539b11582dc487b4833 | CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR |
| 5c58468d55f58e497e743982d2b50010b6d165374acf83a7d4a32db768c4408e | CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL |
| a7c8681042f3675aa8505d3ba313d80f8ac3250fdf874ad29b834689c087fb11 | CN=NAVER Cloud Trust Services ECC Root G1,O=NAVER Cloud Trust Services Corp.,C=KR |
| 1a0d20445de5ba1862d19ef880858cbce50102b36e8f0a040c3c69e74522fe6e | CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB |
| 554153b13d2cf9ddb753bfbe1a4e0ae08d0aa4187058fe60a2b862b2e4b87bcb | CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES |
| eec997c0c30f216f7e3b8b307d2bae42412d753fc8219dafd1520b2572850f49 | CN=OISTE Server Root ECC G1,O=OISTE Foundation,C=CH |
| 08170d1aa36453901a2f959245e347db0c8d37abaabc56b81aa100dc958970db | CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE |
| be4b56cb5056c0136a526df444508daa36a0b54f42e4ac38f72af470e479654c | CN=TrustAsia Global Root CA G4,O=TrustAsia Technologies\, Inc.,C=CN |
| 97552015f5ddfc3c8788c006944555408894450084f100867086bc1a2bb58dc8 | CN=Trustwave Global Certification Authority,O=Trustwave Holdings\, Inc.,L=Chicago,ST=Illinois,C=US |
| f1b52392c4a4ec2a8709b1308304a911ffcec2ce0b63a94f9e969164567c4925 | CN=Cisco Licensing Root CA,O=Cisco |
| 50df022dfa77185b4032a19196cb9840e29a87298830c5962d23f9b0a07dd5e | CN=Internal Private Root,O=Cisco,OU=Corvus |
| 647987d98d52645da4d3de3b80771a0ce02b9b9285e6e86999882170744ec9aa | CN=Entrust 4K EV TLS Root CA - 2022,O=Entrust\, Inc.,C=US |

| Fingerprint | Subject |
|--|---|
| 4b009c1034494f9ab56bba3ba1d62731fc4d20d8955adcec10a925607261e338 | CN=SecureSign Root CA14,O=Cybertrust Japan Co.\, Ltd.,C=JP |
| 7a77c6c61eeeb9aa65c4ea410d65d895b26a81123283009db104b48de80b2479 | CN=OATI WebCARES Root CA,O=Open Access Technology International Inc,L=Minneapolis,ST=MN,C=US |
| 1793927a0614549789adce2f8f34f7f0b66d0f3ae3a3b84d21ec15dbba4fad7 | CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB |
| 96bcec06264976f37460779acf28c5a7cfe8a3c0aae11a8ffcee05c0bddf08c6 | CN=ISRG Root X1,O=Internet Security Research Group,C=US |
| fb8fec759169b9106b1e511644c618c51304373f6c0643088d8beffd1b997599 | CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,2.5.4.5=G63287510 |
| 7431e5f4c3c1ce4690774f0b61e05440883ba9a01ed00ba6abd7806ed3b118cf | CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US |
| 0da80cc491638f8c756396e0afac16079829fa06697bfe6d7ee93a6a0c9e212d | CN=IT Private Root CA,O=Cisco,OU=Phoenix |
| 1501f89c5c4dcf36cf588a17c9fd7cfce9ee01e8729be355e25de80eb6284b4 | C=ES,O=EDICOM,CN=CAEDICOM Root |
| cbb522d7b7f127ad6a0113865bdf1cd4102e7d0759af635a7cf4720dc963c53b | CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3 |
| c2157309d9aee17bf34f4df5e88dbaeba57e0361eb814cbc239f4d54d329a38d | CN=Főtanúsítványkiadó - Kormányzati Hitelesítés Szolgáltató,O=NISZ Nemzeti Infokommunikációs Szolgáltató Zrt.,L=Budapest,C=HU |
| 24a55c2ab051442d0617766541239a4ad032d7c55175aa34ffde2fbc4f5c5294 | CN=Security Communication RootCA3,O=SECOM Trust Systems CO.\,LTD.,C=JP |
| 1465fa205397b876faa6f0a9958e5590e40fcc7faa4fb7c2c8677521fb5fb658 | OU=Starfield Class 2 Certification Authority,O=Starfield Technologies\, Inc.,C=US |
| c1468cf2254e6004b24696aba209d1a30ba6e2dff68a9a4e32c6ab414f90c8d9 | CN=DigiCert ECC P384 Root G5,O=DigiCert\, Inc.,C=US |
| 8f9adb6d895dab5adf5c3d3fab83927be0fb64ef82485c62280d584e8bd55d22 | CN=Swedish Government Root Authority v3,O=Swedish Social Insurance Agency,C=SE |
| 0a81ec5a929777f145904af38d5d509f66b5e2c58fcd531058b0e17f3f0b41b | CN=AffirmTrust Networking,O=AffirmTrust,C=US |
| 49a2762987788d4834b32305d767760f244d507742e8c2539fd4ca3ad52c16ee | CN=NAVER Cloud Trust Services RSA Root G1,O=NAVER Cloud Trust Services Corp.,C=KR |
| 574df6931e278039667b720afdc1600fc27eb66dd3092979fb73856487212882 | CN=BJCA Global Root CA2,O=BEIJING CERTIFICATE AUTHORITY,C=CN |
| dec669e322e07cd7c60a56904bf50c29fa1e75071723fc103577e27b226968d5 | CN=TRS Bundle Root CA,O=Cisco |
| e7e12793643f18bee5b8e53ab5803bb3d59d8e63d14ce6346c004b0dfa34fecc | CN=Cisco Root CA 2099,O=Cisco |
| 018e13f0772532cf809bd1b17281867283fc48c6e13be9c69812854a490c1b05 | CN=DigiCert TLS ECC P384 Root G5,O=DigiCert\, Inc.,C=US |

| Fingerprint | Subject |
|---|---|
| 6ec6614e9a8efd47d6318ffdfd0bf65b493a141f77c38d0b319be1bbbc053dd2 | CN=Swiss Government Root CA I,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH |
| 349dfa4058c5e263123b398ae795573c4e1313c83fe68f93556cd5e8031b3c7d | CN=GTS Root R4,O=Google Trust Services LLC,C=US |
| c32ffd9f46f936d16c3673990959434b9ad60aafbb9e7cf33654f144cc1ba143 | CN=SSL.com TLS ECC Root CA 2022,O=SSL Corporation,C=US |
| 063e4afac491dfd332f3089b8542e94617d893d7fe944e10a7937ee29d9693c0 | CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,2.5.4.5=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU |
| f356bea244b7a91eb35d53ca9ad7864ace018e2d35d5f8f96ddf68a6f41aa474 | C=DE,O=Atos,CN=Atos TrustedRoot 2011 |
| 9d55e2bade8ef7871cdc9e3dcabc0d92d50cd2602c0a70d573178d990a84cb71 | CN=Cisco Basic Assurance SUDI Root CA RSA 4096 2099,O=Cisco |
| 2e7bf16cc22485a7bbe2aa8696750761b0ae39be3b2fe9d0cc6d4ef73491425c | CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US |
| 847df6a78497943f27fc72eb93f9a637320a02b561d0a91b09e87a7807ed7c61 | CN=Microsoft Root Certificate Authority 2011,O=Microsoft Corporation,L=Redmond,ST=Washington,C=US |
| f9a17a00e5c294ba9614a715819af57f3fd48cc413453fbb8a5fc7e97964e2bc | C=CZ,2.5.4.97=NTRCZ-26439395,O=První certifikační autorita, a.s.,CN=I.CA TLS Root CA/RSA 05/2022 |
| be6c4da2bbb9ba59b6f3939768374246c3c005993fa98f020d1dedbed48a81d5 | CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH |
| 43df5774b03e7fef5fe40d931a7bedf1bb2e6b42738c4e6d3841103d3aa7f339 | CN=Entrust Root Certification Authority - G2,OU=(c) 2009 Entrust\, Inc. - for authorized use only,OU=See www.entrust.net/legal-terms,O=Entrust\, Inc.,C=US |
| 3e9099b5015e8f486c00bcea9d111ee721faba355a89bcf1df69561e3dc6325c | CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US |
| 46edc3689046d53a453fb3104ab80dcaec658b2660ea1629dd7e867990648716 | CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR |
| 3f99cc474acfce4dfed58794665e478d1547739f2e780f1bb4ca9b133097d401 | CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR |
| 4200f5043ac8590ebb527d209ed1503029fbcdbd41ca1b506ec27f15ade7dac69 | CN=Secure Global CA,O=SecureTrust Corporation,C=US |
| 229ccc196d32c98421cc119e78486eebef603aec525c6b88b47abb740692b96 | CN=Cisco RXC-R2,O=Cisco Systems,C=US |
| d48d3d23eedb50a459e55197601c27774b9d7b18c94d5a059511a10250b93168 | CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR |

| Fingerprint | Subject |
|--|--|
| 2e44102ab58cb85419451c8e19d9acf3662cafbc614b6a53960a30f7d0e2eb41 | CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN |
| 77b82cd8644c4305f7acc5cb156b45675004033d51c60c6202a8e0c33467d3a0 | CN=Certainly Root R1,O=Certainly,C=US |
| 873f4685fa7f563625252e6d36bcd7f16fc24951f264e47e1b954f4908cdca13 | CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR |
| 41c923866ab4cad6b7ad578081582e020797a6cbdf4fff78ce8396b38937d7f5 | CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH |
| 5cc3d78e4e1d5e45547a04e6873e64f90cf9536d1ccc2ef800f355c4c5fd70fd | CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN |
| 8327bc8c9d69947b3de3c27511537267f59c21b9fa7b613fafbccd53b7024000 | CN=Cisco Root CA 2048,O=Cisco Systems |
| 1cf341ae35341ac3ae1dc68d5b10dc0c9dc1307656f75fd92ca2c68489d52e9a | CN=MOIS SSL Root CA,O=Ministry of the Interior and Safety,C=KR |
| b676f2eddae8775cd36cb0f63cd1d4603961f49e6265ba013a2f0307b6d0b804 | CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL |
| 97f654859cbde586fd90311e82ec7902c238cba0d6e529564c9c88f44895ec50 | CN=ACA ROOT,O=CONSEJO GENERAL DE LA ABOGACIA,2.5.4.5=Q2863006I,C=ES |
| 3c4fb0b95ab8b30032f432b86f535fe172c185d0fd39865837cf36187fa6f428 | CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL |
| dd6936fe21f8f077c123a1a521c12224f72255b73e03a7260693e8a24b0fa389 | CN=TeliaSonera Root CA v1,O=TeliaSonera |
| 45140b3247eb9cc8c5b4f0d7b53091f73292089e6e5a63e2749dd3aca9198eda | CN=Go Daddy Root Certificate Authority - G2,O=GoDaddy.com\, Inc.,L=Scottsdale,ST=Arizona,C=US |
| 34d8a73ee208d9bcdb0d956520934b4e40e69482596e8b6f73c8426b010a6f48 | CN=GTS Root R3,O=Google Trust Services LLC,C=US |
| 73c176434f1bc6d5adf45b0e76e727287c8de57616c1e6e6141a2b2cbc7d8e4c | CN=Entrust Root Certification Authority,OU=(c) 2006 Entrust\, Inc.,OU=www.entrust.net/CPS is incorporated by reference,O=Entrust\, Inc.,C=US |
| 657cfe2fa73faa38462571f332a2363a46fce7020951710702cdfbb6eeda3305 | OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO |
| 34bb34e14faed0d3392f2fc441c0ecd5fd88ad88118df2d1ba76cdec1eea10b8 | OU=Saudi National Root CA,O=National Center for Digital Certification,C=SA |
| 7d05ebb682339f8c9451ee094eebfefa7953a114edb2f44949452fab7d2fc185 | CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US |
| 5e4b0e86fcdb405d155e6740553b56ded9c598f9be235797693ab3022e268282 | CN=Cisco Secure Access Root CA,O=Cisco,OU=Horologium |
| 85666a562ee0be5ce925c1d8890a6f76a87ec16d4d7d5f29ea7419cf20123b69 | CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US |

| Fingerprint | Subject |
|---|---|
| e35d28419ed02025cfa69038cd623962458da5c695fbdea3c22b0bfb25897092 | CN=Amazon Root CA 4,O=Amazon,C=US |
| 2cabeafe37d06ca22aba7391c0033d25982952c453647349763a3ab5ad6ccf69 | CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6 |
| dd6c44b39401b053dbe61120748bbb0f6056007665c168e5c286750edc8df129 | CN=Entrust 4K TLS Root CA - 2022,O=Entrust\, Inc.,C=US |
| d8e0febcb1db2e38d00940f37d27d41344d993e734b99d5656d9778d4d8143624 | CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL |
| 193144f431e0fddb740717d4de926a571133884b4360d30e272913cbe660ce41 | CN=SwissSign RSA TLS Root CA 2022 - 1,O=SwissSign AG,C=CH |
| 6e0bff069a26994c15de2c4888cc54af84882e5495b7fbf66be9ccffec7489f6 | CN=Autoridade Certificadora Raiz Brasileira v10,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR |
| 8560f91c3624daba9570b5fea0dbe36ff11a8323be9486854fb3f34a5571198d | CN=OISTE WISEKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH |
| 4ff460d54b9c86dabfbcfc5712e0400d2bed3fbc4d4fbdad86e06adcd2a9ad7a | CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US |
| 5d56499be4d2e08bcfcad08a3e38723d50503bde706948e42f55603019e528ae | CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US |
| 49e7a442acf0ea6287050054b52564b650e4f49e42e348d6aa38e039e957b1c1 | CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE |
| 8a866fd1b276b57e578e921c65828a2bed58e9f2f288054134b7f1f4bfc9cc74 | CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM |
| 34ff2a4409dc1383e9f8966e8adfe5719eba373fd0ad5e2f49f90ee07cf5d4c1 | CN=VRK Gov. Root CA - G2,OU=Varmennepalvelut,OU=Certification Authority Services,O=Vaestorekisterikeskus CA,C=FI |
| 8a71de6559336f426c26e53880d00d88a18da4c6a91f0dcb6194e206c5c96387 | CN=vTrus Root CA,O=iTrusChina Co.\,Ltd.,C=CN |
| e793c9b02fd8aa13e21c31228accb08119643b749c898964b1746d46c3d4cbd2 | CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US |
| b724689b79b2ef9421ef8f5cc733eb093851b170ee715177005a09f226d8c91a | CN=CCA India 2022 SPL,O=India PKI,C=IN |
| 15d5b8774619ea7d54ce1ca6d0b0c403e037a917f131e8a04e1e6b7a71babce5 | CN=GTS Root R3,O=Google Trust Services LLC,C=US |
| 2530cc8e98321502bad96f9b1fba1b099e2d299e0f4548bb914f363bc0d4531f | CN=Izenpe.com,O=IZENPE S.A.,C=ES |
| 68ad50909b04363c605ef13581a939ff2c96372e3f12325b0a6861e1d59f6603 | CN=Verizon Global Root CA,OU=OmniRoot,O=Verizon Business,C=US |
| 568d6905a2c88708a4b3025190edcfedb1974a606a13c6e5290fcb2ae63edab5 | CN=Starfield Services Root Certificate Authority - G2,O=Starfield Technologies\, Inc.,L=Scottsdale,ST=Arizona,C=US |
| 6b9c08e86eb0f767cfad65cd98b62149e5494a67f5845e7bd1ed019f27b86bd6 | CN=OISTE WISEKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH |
| 18ce6cfe7bf14e60b2e347b8dfe868cb31d02ebb3ada271569f50343b46db3a4 | CN=Amazon Root CA 3,O=Amazon,C=US |
| cbb9c44d84b8043e1050ea31a69f514955d7bfd2e2c6b49301019ad61d9f5058 | CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE |
| 705eaafc3ff488030017d59832603eefad514171b583808675f45c190e6378f8 | CN=Cisco Root CA M1,O=Cisco |

| Fingerprint | Subject |
|--|--|
| c741f70f4b2a8d88bf2e71c14122ef53ef10eba0cfa5e64cfa20f418853073e0 | CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US |
| d3d607a9ff24a19523b6da9d2c649446f8788cb96d9fd130972e120c13677730 | 2.5.4.5=NTRCZ-26439395,CN=I.CA Root CA/RSA,O=První certifikační autorita\, a.s.,C=CZ |
| d95d0e8eda79525bf9beb11b14d2100d3294985f0c62d9fabd9cd999eccb7b1d | CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR |
| df545bf919a2439c36983b54cdfc903dfa4f37d3996d8d84b4c31eec6f3c163e | CN=Microsoft Root Certificate Authority 2010,O=Microsoft Corporation,L=Redmond,ST=Washington,C=US |
| b085d70b964f191a73e4af0d54ae7a0e07aafdaf9b71dd0862138ab7325a24a2 | CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4 |
| e3b6a2db2ed7ce48842f7ac53241c7b71d54144bfb40c11f3f1d0b42f5eea12d | CN=Certigna,O=Dhimyotis,C=FR |
| 4be8b5a1c76c6aead0611918fccf9dbd398b67fb12294758bdf994d0f9682f60 | CN=ANCERT Certificados Notariales V2,O=Agencia Notarial de Certificacion S.L.U. - CIF B83395988,C=ES |
| ef66b0b10a3cdb9f2e3648c76bd2af18ead2bfe6f117655e28c4060da1a3f4c2 | CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR |
| 8ac552ad577e37ad2c6808d72aa331d6a96b4b3febff34ce9bc0578e08055ec3 | CN=A-Trust-Root-07,OU=A-Trust-Root-07,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT |
| f015ce3cc239bfef064be9f1d2c417e1a0264a0a94be1f0c8d121864eb6949cc | CN=HiPKI Root CA - G1,O=Chunghwa Telecom Co.\, Ltd.,C=TW |
| 41dfd9c52d71f6a2c7f1083aa8f80153ff6ec23349d2599de347adbe423504f3 | CN=Internal Customer Root CA,O=Cisco,OU=Arcturus |
| e46a392204a8dca342a71c1ca9a60c9185b9a930370120c3b9c7e3856f0d8f3b | CN=DigiCert RSA4096 Root G5,O=DigiCert\, Inc.,C=US |
| 69729b8e15a86efc177a57afb7171dfc64add28c2fca8cf1507e34453ccb1470 | CN=ISRG Root X2,O=Internet Security Research Group,C=US |
| 125609aa301da0a249b97a8239cb6a34216f44dcac9f3954b14292f2e8c8608f | CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US |
| eb7e05aa58e7bd328a282bf8867033f3c035342b516ee85c01673dffffbffe58 | CN=NetLock Platina (Class Platinum) Főtanúsítvány,OU=Tanúsítványkiadók (Certification Services),O=NetLock Kft.,L=Budapest,C=HU |
| 3fd4be8baad2f26e1bde06c7584bb720dd1a972d111f5a4999bc44b08fb4960d | CN=Microsoft ECC TS Root Certificate Authority 2018,O=Microsoft Corporation,L=Redmond,ST=Washington,C=US |
| 6e1fd3ae0d2d477c8f5ee5f335cc5b6356872654e5356a73d8c0a30a17c252a2 | CN=QuoVadis TLS ECC P384 Root G4,O=QuoVadis Trustlink B.V.,C=NL |
| d43af9b35473755c9684fc06d7d8cb70ee5c28e773fb294eb41ee71722924d24 | CN=UCA Extended Validation Root,O=UniTrust,C=CN |
| 0c2cd63df7806fa399ede809116b575bf87989f06518f9808c860503178baf66 | CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB |

| Fingerprint | Subject |
|--|--|
| 81a9088ea59fb364c548a6f85559099b6f0405efbf18e5324ec9f457ba00112f | C=DE,O=Atos,CN=Atos TrustedRoot Root CA RSA TLS 2021 |
| 136335439334a7698016a0d324de72284e079d7b5220bb8bfd747816eebeBaca | CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,2.5.4.5=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU |
| 9bea11c976fe014764c1be56a6f914b5a560317abd9988393382e5161aa0493c | CN=UCA Global G2 Root,O=UniTrust,C=CN |
| 358df39d764af9e1b766e9c972df352ee15cfac227af6ad1d70e8e4a6edcba02 | CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US |
| bd71fdf6da97e4cf62d1647add2581b07d79adf8397eb4ecba9c5e8488821423 | CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US |
| 1e51942b84fd467bf77d1c89da241c04254dc8f3ef4c22451fe7a89978bdcd4f | CN=ePKI Root Certification Authority - G2,O=Chunghwa Telecom Co.\, Ltd.,C=TW |
| cb3ccbb76031e5e0138f8dd39a23f9de47ffc35e43c1144cea27d46a5ab1cb5f | CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US |
| a1339d33281a0b56e557d3d32b1ce7f9367eb094bd5fa72a7e5004c8ded7cafe | CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL |
| b4585f22e4ac756a4e8612a1361c5d9d031a93fd84febb778fa3068b0fc42dc2 | CN=Certainly Root E1,O=Certainly,C=US |
| 945bbc825ea554f489d1fd51a73ddf2ea624ac7019a05205225c22a78ccfa8b4 | CN=Trustwave Global ECC P256 Certification Authority,O=Trustwave Holdings\, Inc.,L=Chicago,ST=Illinois,C=US |
| 3f034bb5704d44b2d08545a02057de93ebf3905fce721acbc730c06ddaee904e | CN=SecureSign Root CA12,O=Cybertrust Japan Co.\, Ltd.,C=JP |
| 8fe4fb0af93a4d0d67db0bebb23e37c71bf325dcbcd240ea04daf58b47e1840 | CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM |
| 57de0583efd2b26e0361da99da9df4648def7ee8441c3b728afa9bcde0f9b26a | CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES |
| 420332ef876ebe78f2af5d28aaacde24aad0c10f8ffaac469efd7bd941929568 | CN=Entrust P384 TLS Root CA - 2022,O=Entrust\, Inc.,C=US |
| 86a1ecba089c4a8d3bbe2734c612ba341d813e043cf9e8a862cd5c57a36bbe6b | CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN |
| 513b2cecb810d4cde5dd85391adfc6c2dd60d87bb736d2b521484aa47a0ebef6 | OU=Security Communication RootCA2,O=SECOM Trust Systems CO.\,LTD.,C=JP |
| c0a6f4dc63a24bfdcf54ef2a6a082a0a72de35803e2ff5ff527ae5d87206dfd5 | OU=ePKI Root Certification Authority,O=Chunghwa Telecom Co.\, Ltd.,C=TW |
| 0376ab1d54c5f9803ce4b2e201a0ee7eef7b57b636e8a93c9b8d4860c96f5fa7 | CN=AffirmTrust Commercial,O=AffirmTrust,C=US |
| cecddc905099d8dadfc5b1d209b737cbe2c18cfb2c10c0ff0bcf0d3286fc1aa2 | CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=www.xrampsecurity.com,C=US |

| Fingerprint | Subject |
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| 88497f01602f3154246ae28c4d5aef10f1d87ebb76626f4ae0b7f95ba7968799 | CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES |
| a7dedf5a842167dd12fdaa0f2080e73295b8b8bea71b2094ea0950945a482fc1 | CN=AffirmTrust 4K TLS Root CA - 2022,O=AffirmTrust,C=CA |
| 40f6af0346a99aa1cd1d555a4e9cce62c7f9634603ee406615833dc8c8d00367 | CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN |
| db3517d1f6732a2d5ab97c533ec70779ee3270a62fb4ac4238372460e6f01e88 | CN=Entrust Root Certification Authority - G4,OU=(c) 2015 Entrust\, Inc. - for authorized use only,OU=See www.entrust.net/legal-terms ,O=Entrust\, |
| 5546a52504fba74f61ffd4890067529ade3b9c9d07e502592831ccda9b369fd3 | CN=DVV Gov. Root CA - G3 ECC,OU=Varmennepalvelut,OU=Certification Authority Services,O=Digi- ja vaestotietovirasto CA,C=FI |
| 5e3571f33f45a7df1537a68b5ffb9e036af9d2f5bc4c9717130dc43d7175aac7 | 1.2.840.113549.1.9.1=info@globaltrust.info,CN=GLOBALTRUST,OU=GLOBALTRUST Certification Service,O=ARGE DATEN - Austrian Society for Data Protection,ST=Austria,L=Vienna,C=AT |
| 242b69742fcb1e5b2abf98898b94572187544e5b4d9911786573621f6a74b82c | CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI |
| fe7696573855773e37a95e7ad4d9cc96c30157c15d31765ba9b15704e1ae78fd | CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL |
| 30fba2c32238e2a98547af97931e550428b9b3f1c8eeb6633dcfa86c5b27dd3 | CN=vTrus ECC Root CA,O=iTrusChina Co.\,Ltd.,C=CN |
| 2a99f5bc1174b73cbb1d620884e01c34e51ccb3978da125f0e33268883bf4158 | CN=Certinomis - Root CA,OU=0002 433998903,O=Certinomis,C=FR |
| 578af4ded0853f4e5998db4aeaf9cbea8d945f60b620a38d1a3c13b2bc7ba8e1 | CN=Telekom Security TLS ECC Root 2020,O=Deutsche Telekom Security GmbH,C=DE |
| fad540811afae0dc767cdf6572a088fa3ce8493dd82b3b869a67d10aab4e8124 | CN=SI-TRUST Root,2.5.4.97=VATSI-17659957,O=Republika Slovenija,C=SI |
| d7a7a0fb5d7e2731d771e9484ebcdef71d5f0c3e0a2948782bc83ee0ea699ef4 | CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB |
| d3ed3fc40ad26b52e001e1e18f4b9449529deb75a81d5eb680d7b62db23ba96d | CN=DVV Gov. Root CA - G3 RSA,OU=Varmennepalvelut,OU=Certification Authority Services,O=Digi- ja vaestotietovirasto CA,C=FI |
| 8e8221b2e7d4007836a1672f0dcc299c33bc07d316f132fa1a206d587150f1ce | CN=D-TRUST EV Root CA 2 2023,O=D-Trust GmbH,C=DE |
| ebc5570c29018c4d67b1aa127baf12f703b4611ebc17b7dab5573894179b93fa | OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES |
| ebd41040e4bb3ec742c9e381d31ef2a41a48b6685c96e7cef3c1df6cd4331c99 | CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE |
| beb00b30839b9bc32c32e4447905950641f26421b15ed089198b518ae2ea1b99 | CN=e-Szigno Root CA 2017,2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU |

| Fingerprint | Subject |
|--|---|
| 59769007f7685d0fcd50872f9f95d5755a5b2b457d81f3692b610a98672f0e1b | CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW |
| 70a73f7f376b60074248904534b11482d5bf0e698ecc498df52577ebf2e93b9a | CN=AffirmTrust Premium,O=AffirmTrust,C=US |
| caca93b9d23d2b6fa76e8b8471931e0df3ec6f63af3cddb936c41954a1872326 | CN=Microsoft ECC Product Root Certificate Authority 2018,O=Microsoft Corporation,L=Redmond,ST=Washington,C=US |
| 3a6308acd77a5a33d8da04d669fa00f8e5ae153f259087678b76bf1654b30a06 | CN=Cisco ECC Root CA,O=Cisco |
| c8a2d38a24f5ac302d8a08ebd38923d9a750b49220f092e82d1c53249e1533d0 | CN=QuoVadis TLS RSA 4096 Root G4,O=QuoVadis Trustlink B.V.,C=NL |
| bfd88fe1101c41ae3e801bf8be56350ee9bad1a6b9bd515edc5c6d5b8711ac44 | CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW |
| 04f1bec36951bc1454a904ce32890c5da3cde1356b7900f6e62dfa2041ebad51 | CN=CHAMBERS OF COMMERCE ROOT - 2016,O=AC CAMERFIRMA S.A.,2.5.4.97=VATES-A82743287,2.5.4.5=A82743287,OU=CHAMBERS OF COMMERCE ROOT - 2016,OU=see current address at www.camerfirma.com/address ,L=MADRID,ST=MADRID,C=ES |
| cd85167b3935e27bcc3b0f5fa24c8457882d0bb994f88269a7f72829d957eae9 | CN=Cisco Root CA M2,O=Cisco |
| 65353833cf234c79562164f90849c0d104dbabf8ee41064d83e8cbe03ba1c5a5 | CN=Netrust Root CA 2,OU=Netrust Certificate Authority,O=Netrust Pte Ltd,C=SG |
| 3417bb06cc6007da1b961c920b8ab4ce3fad820e4aa30b9acbc4a74ebdcebc65 | CN=SSL.com Root Certification Authority ECC,O=SSL |
| c1d80ce474a51128b77e794a98aa2d62a0225da3f419e5c7ed73dfbf660e7109 | CN=GLOBAL CHAMBERSIGN ROOT - 2016,O=AC CAMERFIRMA S.A.,2.5.4.97=VATES-A82743287,2.5.4.5=A82743287,OU=GLOBAL CHAMBERSIGN ROOT - 2016,OU=see current address at www.camerfirma.com/address ,L=MADRID,ST=MADRID,C=ES |
| c3846bf24b9e93ca64274c0ec67c1ecc5e024ffcacd2d74019350e81fe546ae4 | OU=Go Daddy Class 2 Certification Authority,O=The Go Daddy Group\, Inc.,C=US |
| 2a8da2f8d23e0cd3b5871ecfb0f42276ca73230667f474eede71c5ee32cc3ec6 | CN=Thailand National Root Certification Authority - G1,OU=Thailand National |
| d947432abde7b7fa90fc2e6b59101b1280e0e1c7e4e40fa3c6887fff57a7f4cf | CN=GTS Root R1,O=Google Trust Services LLC,C=US |
| fd73dad31c644ff1b43bef0ccdda96710b9cd9875eca7e31707af3e96d522bbd | CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE |
| efc65cadbb59adb6efe84da22311b35624b71b3b1ea0da8b6655174ec8978646 | CN=Telekom Security TLS RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE |
| 31ad6648f8104138c738f39ea4320133393e3a18cc02296ef97c2ac9ef6731d0 | CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US |
| 937ef8f12276b3c7a3f58e345d09a6eff01f862f8d2794441cd84d511825fa0c | CN=Entrust P384 EV TLS Root CA - 2022,O=Entrust\, Inc.,C=US |
| 371a00dc0533b3721a7eeb40e8419e70799d2b0a0f2c1d80693165f7cec4ad75 | CN=DigiCert TLS RSA4096 Root G5,O=DigiCert\, Inc.,C=US |

| Fingerprint | Subject |
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| 4fa3126d8d3a11d1c4855a4f807cbad6cf919d3a5a88b03bea2c6372d93c40c9 | CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE |
| bef256daf26e9c69bdec1602359798f3caf71821a03e018257c53c65617f3d4a | CN=FIRMAPROFESIONAL CA ROOT-A WEB,2.5.4.97=VATES-A62634068,O=Firmaprofesional SA,C=ES |
| e778f0f095fe843729cd1a0082179e5314a9c291442805e1fb1d8fb6b8886c3a | CN=SecureSign Root CA15,O=Cybertrust Japan Co.\, Ltd.,C=JP |
| b2fae53e14ccd7ab9212064701ae279c1d8988fach775fa8a008914e663988a8 | C=DE,O=Atos,CN=Atos TrustedRoot Root CA ECC TLS 2021 |
| 179fbc148a3dd00fd24ea13458cc43bfa7f59c8182d783a513f6ebec100c8924 | CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5 |
| 88f438dcf8ffd1fa8f429115ffe5f82ae1e06e0c70c375faad717b34a49e7265 | CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR |
| bc104f15a48be709dca542a7e1d4b9df6f054527e802eaa92d595444258afe71 | CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR |
| 2ce1cb0bf9d2f9e102993fbe215152c3b2dd0cabde1c68e5319b839154dbb7f5 | CN=Starfield Root Certificate Authority - G2,O=Starfield Technologies\, Inc.,L=Scottsdale,ST=Arizona,C=US |
| 30d0895a9a448a262091635522d1f52010b5867acae12c78ef958fd4f4389f2f | CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US |
| 6dc47172e01cbcb0bf62580d895fe2b8ac9ad4f873801e0c10b9c837d21eb177 | CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net |
| 6ab2ab75f51cb4f4f0156203fbf6f646232f514be059f62833308b82b4d72db1 | CN=SECOM TLS ECC Root CA 2024,O=SECOM Trust Systems Co.\, Ltd.,C=JP |
| 2605875afcc176b2d66dd66a995d7f8d5ebb86ce120d0e7e9e7c6ef294a27d4c | C=IL,O=ComSign Ltd.,CN=ComSign Global Root CA |
| 07cd9aa9064a9b94c6aef8fb784c1bbc1beda08acbe86878d781a39167626cf8 | CN=Visa Public RSA Root CA,OU=Visa International Service Association,O=VISA,C=US |
| 06c08d7dafd876971eb1124fe67f847ec0c7a158d3ea53cbe940e2ea9791f4c3 | CN=TrustAsia TLS RSA Root CA,O=TrustAsia Technologies\, Inc.,C=CN |
| c45d7bb08e6d67e62e4235110b564e5f78fd92ef058c840aea4e6455d7585c60 | CN=GTS Root R2,O=Google Trust Services LLC,C=US |
| 9ee289cc39971c15e94beb65142d360b5873feb970de1f9fda53ac26d10b25c6 | CN=IT Application Root CA,O=Cisco,OU=Pollux |
| f3896f88fe7c0a882766a7fa6ad2749fb57a7f3e98fb769c1fa7b09c2c44d5ae | CN=BJCA Global Root CA1,O=BEIJING CERTIFICATE AUTHORITY,C=CN |
| e23d4a036d7b70e9f595b1422079d2b91edfbb1fb651a0633eaa8a9dc5f80703 | CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK |
| 9a114025197c5bb95d94e63d55cd43790847b646b23cdf11ada4a00eff15fb48 | CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO |
| eec5496b988ce98625b934092eec2908bed0b0f316c2d4730c84eaf1f3d34881 | CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE |

| Fingerprint | Subject |
|---|--|
| 5a2fc03f0c83b090bbfa40604b0988446c7636183df9846e17101a447fb8efd6 | CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK |
| 7e37cb8b4c47090cab36551ba6f45db840680fba166a952db100717f43053fc2 | CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US |
| 62dd0be9b9f50a163ea0f8e75c053b1eca57ea55c8688f647c6881f2c8357b95 | CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH |
| eea962c4fa4a6bafbe415196d351ccd888d4f53f3fa8ae6d7c466a94e6042bb | OU=certSIGN ROOT CA,O=certSIGN,C=RO |
| 416b1f9e84e74c1d19b23d8d7191c6ad81246e641601f599132729f507beb3cc | CN=GLOBALTRUST 2015,OU=GLOBALTRUST Certification Service,O=e-commerce monitoring GmbH,L=Wien,ST=Wien,C=AT |
| 85a0dd7dd720adb7ff05f83d542b209dc7ff4528f7d677b18389fea5e5c49e86 | CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM |
| 18f1fc7f205df8adddeb7fe007dd57e3af375a9c4d8d73546bf4f1fed1e18d35 | CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM |
| 5ab4fcdcb180b5b6af0d262a2375a2c77d25602015d96648756611e2e78c53ad3 | CN=Finna Root CA,O=Financijska agencija,C=HR |
| bc4d809b15189d78db3e1d8cf4f9726a795da1643ca5f1358e1ddb0edc0d7eb3 | CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US |
| d7ba3f4ff8ad05633451470dda3378a3491b90005e5c687d2b68d53647cfd66 | CN=Halcom Root Certificate Authority,2.5.4.97=VATSI-43353126,O=Halcom d.d.,C=SI |
| 8faf7d2e2cb4709bb8e0b33666bf75a5dd45b5de480f8ea8d4bfe6bebc17f2ed | CN=SSL.com TLS RSA Root CA 2022,O=SSL Corporation,C=US |
| 88ef81de202eb018452e43f864725cea5fbd1fc2d9d205730709c5d8b8690f46 | CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM |
| 3c5f81fea5fab82c64bfa2eaecafcd8e077fc8620a7cae537163df36edbf378 | 1.2.840.113549.1.9.1=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU |
| 9a296a5182d1d451a2e37f439b74daafa267523329f90f9a0d2007c334e23c9a | CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT |
| 6c61dac3a2def031506be036d2a6fe401994fbd13df9c8d466599274c446ec98 | CN=NetLock Arany (Class Gold) Főtanúsítvány,OU=Tanúsítványkiadók (Certification Services),O=NetLock Kft.,L=Budapest,C=HU |
| 55926084ec963a64b96e2abe01ce0ba86a64fbfbcc7aab5afc155b37fd76066 | CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT |
| 04048028bf1f2864d48f9ad4d83294366a828856553f3b14303f90147f5d40ef | CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES |
| 0552e6f83fdf65e8fa9670e666df28a4e21340b510cbe52566f97c4fb94b2bd1 | CN=D-TRUST BR Root CA 2 2023,O=D-Trust GmbH,C=DE |
| d649c40830aab9869f2536ff933c4050746659b31dfa735405e4f7ad447c20d5 | CN=Cisco Basic Assurance Root CA 2099,O=Cisco |
| 2a575471e31340bc21581cbd2cf13e158463203ece94bcf9d3cc196bf09a5472 | CN=GTS Root R1,O=Google Trust Services LLC,C=US |
| 6b328085625318aa50d173c98d8bda09d57e27413d114cf787a0f5d06c030cf6 | CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL |
| 9a6ec012e1a7da9dbe34194d478ad7c0db1822fb071df12981496ed104384113 | C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1 |

| Fingerprint | Subject |
|--|---|
| c0076b9ef0531fb1a656d67c4ebe97cd5dbaa41ef44598acc2489878c92d8711 | CN=TrustAsia TLS ECC Root CA,O=TrustAsia Technologies\, Inc.,C=CN |
| 407c276bead2e4af0661ef6697341dec0a1f9434e4eafb2d3d32a90549d9de4a | CN=GPKIRootCA1,OU=GPKI,O=Government of Korea,C=KR |
| 7a38f708a35a31e42e1cf3220f9a2d273e7666354618b2464657d43d8e77adc2 | CN=A-Trust-Root-09,OU=A-Trust-Root-09,O=A-Trust GmbH,C=AT |
| a3cc68595dfe7e86d8ad1772a8b5284add54ace3b8a798df47bccafb1fdb84df | CN=Hotspot 2.0 Trust Root CA - 03,O=WFA Hotspot 2.0,C=US |
| 8d25cd97229dbf70356bda4eb3cc734031e24cf00fafcfd32dc76eb5841c7ea8 | CN=GTS Root R2,O=Google Trust Services LLC,C=US |
| 22a2c1f7bded704cc1e701b5f408c310880fe956b5de2a4a44f99c873a25a7c8 | CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US |
| edf7ebbca27a2a384d387b7d4010c666e2edb4843e4c29b4ae1d5b9332e6b24d | CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO |
| e74fbda55bd564c473a36b441aa799c8a68e077440e8288b9fa1e50e4bbaca11 | CN=Security Communication ECC RootCA1,O=SECOM Trust Systems CO.\,LTD.,C=JP |
| e0d3226aeb1163c2e48ff9be3b50b4c6431be7bb1eacc5c36b5d5ec509039a08 | CN=TrustAsia Global Root CA G3,O=TrustAsia Technologies\, Inc.,C=CN |
| 2399561127a57125de8cefea610ddf2fa078b5c8067f4e828290bfb860e84b3c | CN=VeriSign Universal Root Certification Authority,OU=(c) 2008 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US |
| 1435f225c5d252d7a21948cc3ce62aecfa88001e3dd72d1cc3555100eb372f93 | CN=SECOM TLS RSA Root CA 2024,O=SECOM Trust Systems Co.\, Ltd.,C=JP |
| 71cca5391f9e794b04802530b363e121da8a3043bb26662fea4dca7fc951a4bd | CN=GTS Root R4,O=Google Trust Services LLC,C=US |
| 8ecde6884f3d87b1125ba31ac3fcb13d7016de7f57cc904fe1cb97c6ae98196e | CN=Amazon Root CA 1,O=Amazon,C=US |
| 55903859c8c0c3ebb8759ece4e2557225ff5758bbd38ebd48276601e1bd58097 | CN=Trustwave Global ECC P384 Certification Authority,O=Trustwave Holdings\, Inc.,L=Chicago,ST=Illinois,C=US |
| ac7f7862e685c7a7d9826a58ea32d183d4893fcc8f8fd6d900c9769a987e77f0 | CN=PostSignum Root QCA 4,O=Česká pošta\, s.p.,2.5.4.97=NTRCZ-47114983,C=CZ |
| 1ba5b2aa8c65401a82960118f80bec4f62304d83cec4713a19c39c011ea46db4 | CN=Amazon Root CA 2,O=Amazon,C=US |
| bfff8fd04433487d6a8aa60c1a29767a9fc2bbb05e420f713a13b992891d3893 | CN=GDCA TrustAUTH R5 ROOT,O=GUANG DONG CERTIFICATE AUTHORITY CO.\,LTD.,C=CN |
| 209e956af04df3996507c887d356230d6eb49fdbdd2d8a058ff50b8f80f690aa | CN=Australian Defence Public Root CA,OU=CAs,OU=PKI,OU=DoD,O=GOV,C=AU |
| b49141502d00663d740f2e7ec340c52800962666121a36d09cf7dd2b90384fb4 | CN=e-Szigno TLS Root CA 2023,2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU |
| 9ae36232a5189ffddb353dfd26520c015395d22777dac59db57b98c089a651e6 | CN=OISTE Server Root RSA G1,O=OISTE Foundation,C=CH |

| Fingerprint | Subject |
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| c90f26f0fb1b4018b22227519b5ca2b53e2ca5b3be5cf18efe1bef47380c5383 | CN=Sectigo Public Server Authentication Root E46,O=Sectigo Limited,C=GB |
| bec94911c2955676db6c0a550986d76e3ba005667c442c9762b4fbb773de228c | CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4 |
| 3f63bb2814be174ec8b6439cf08d6d56f0b7c405883a5648a334424d6b3ec558 | CN=TWCA CYBER Root CA,OU=Root CA,O=TAIWAN-CA,C=TW |
| 7bb647a62aeeac88bf257aa522d01ffe395e0ab45c73f93f65654ec38f25a06 | CN=Sectigo Public Server Authentication Root R46,O=Sectigo Limited,C=GB |
| 3f548ce635f4fdcd819d6f237ce47bc42b01ae14db2b8733656eb52dcccc49d6 | CN=Device Identity Basic Assurance Root CA 2099 |
| 52f0e1c4e58ec629291b60317f074671b85d7ea80d5b07273463534b32b40234 | CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB |
| e59aaa816009c22bff5b25bad37df306f049797c1f81d85ab089e657bd8f0044 | CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE |
| 91e2f5788d5810eba7ba58737de1548a8ecacd014598bc0b143e041b17052552 | CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE |
| f4336bc2ac75950beccf1c1f2f9da6dddafd1f41161ca71f59c76889bd474033 | CN=ANCERT Certificados CGN V2,O=Agencia Notarial de Certificacion S.L.U. - CIF B83395988,C=ES |
| b085d70b964f191a73e4af0d54ae7a0e07aafdaf9b71dd0862138ab7325a24a2 | CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4 |
| 30d0895a9a448a262091635522d1f52010b5867acae12c78ef958fd4f4389f2f | CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US |
| 4348a0e9444c78cb265e058d5e8944b4d84f9662bd26db257f8934a443c70161 | CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US |
| d649c40830aab9869f2536ff933c4050746659b31dfa735405e4f7ad447c20d5 | CN=Cisco Basic Assurance Root CA 2099,O=Cisco |
| 34d8a73ee208d9bcd0d956520934b4e40e69482596e8b6f73c8426b010a6f48 | CN=GTS Root R3,O=Google Trust Services LLC,C=US |
| dec669e322e07cd7c60a56904bf50c29fa1e75071723fc103577e27b226968d5 | CN=TRS Bundle Root CA,O=Cisco |
| e7e12793643f18bee5b8e53ab5803bb3d59d8e63d14ce6346c004b0dfa34fecc | CN=Cisco Root CA 2099,O=Cisco |
| 018e13f0772532cf809bd1b17281867283fc48c6e13be9c69812854a490c1b05 | CN=DigiCert TLS ECC P384 Root G5,O=DigiCert\, Inc.,C=US |
| 8d25cd97229dbf70356bda4eb3cc734031e24cf00fafcd32dc76eb5841c7ea8 | CN=GTS Root R2,O=Google Trust Services LLC,C=US |
| 3a6308acd77a5a33d8da04d669fa00f8e5ae153f259087678b76bf1654b30a06 | CN=Cisco ECC Root CA,O=Cisco |
| 9ee289cc39971c15e94beb65142d360b5873feb970de1f9fda53ac26d10b25c6 | CN=IT Application Root CA,O=Cisco,OU=Pollux |
| 41dfd9c52d71f6a2c7f1083aa8f80153ff6ec23349d2599de347adbe423504f3 | CN=Internal Customer Root CA,O=Cisco,OU=Arcturus |
| 7d05ebb682339f8c9451ee094eebfefa7953a114edb2f44949452fab7d2fc185 | CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US |
| 5e4b0e86fcdb405d155e6740553b56ded9c598f9be235797693ab3022e268282 | CN=Cisco Secure Access Root CA,O=Cisco,OU=Horologium |
| 69729b8e15a86efc177a57afb7171dfc64add28c2fca8cf1507e34453ccb1470 | CN=ISRG Root X2,O=Internet Security Research Group,C=US |

| Fingerprint | Subject |
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| 349dfa4058c5e263123b398ae795573c4e1313c83fe68f93556cd5e8031b3c7d | CN=GTS Root R4,O=Google Trust Services LLC,C=US |
| e35d28419ed02025cfa69038cd623962458da5c695fbdea3c22b0bfb25897092 | CN=Amazon Root CA 4,O=Amazon,C=US |
| cd85167b3935e27bcc3b0f5fa24c8457882d0bb994f88269a7f72829d957eae9 | CN=Cisco Root CA M2,O=Cisco |
| 9d55e2bade8ef7871cdc9e3dcabc0d92d50cd2602c0a70d573178d990a84cb71 | CN=Cisco Basic Assurance SUDI Root CA RSA 4096 2099,O=Cisco |
| 8ecde6884f3d87b1125ba31ac3fcb13d7016de7f57cc904fe1cb97c6ae98196e | CN=Amazon Root CA 1,O=Amazon,C=US |
| 9a114025197c5bb95d94e63d55cd43790847b646b23cdf11ada4a00eff15fb48 | CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO |
| 1ba5b2aa8c65401a82960118f80bec4f62304d83cec4713a19c39c011ea46db4 | CN=Amazon Root CA 2,O=Amazon,C=US |
| f1b52392c4a4ec2a8709b1308304a911ffcec2ce0b63a94fbe969164567c4925 | CN=Cisco Licensing Root CA,O=Cisco |
| 50df022dfa477185b4032a19196cb9840e29a87298830c5962d23f9b0a07dd5e | CN=Internal Private Root,O=Cisco,OU=Corvus |
| 4ff460d54b9c86dabfbcfc5712e0400d2bed3fbc4d4fbdad86e06adcd2a9ad7a | CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US |
| 229ccc196d32c98421cc119e78486eebef603aec525c6b88b47abb740692b96 | CN=Cisco RXC-R2,O=Cisco Systems,C=US |
| 85a0dd7dd720adb7ff05f83d542b209dc7ff4528f7d677b18389fea5e5c49e86 | CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM |
| d947432abde7b7fa90fc2e6b59101b1280e0e1c7e4e40fa3c6887fff57a7f4cf | CN=GTS Root R1,O=Google Trust Services LLC,C=US |
| 5d56499be4d2e08bcfcad08a3e38723d50503bde706948e42f55603019e528ae | CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US |
| 3f548ce635f4fdcd819d6f237ce47bc42b01ae14db2b8733656eb52dcca49d6 | CN=Device Identity Basic Assurance Root CA 2099 |
| 31ad6648f8104138c738f39ea4320133393e3a18cc02296ef97c2ac9ef6731d0 | CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US |
| 371a00dc0533b3721a7eeb40e8419e70799d2b0a0f2c1d80693165f7cec4ad75 | CN=DigiCert TLS RSA4096 Root G5,O=DigiCert\, Inc.,C=US |
| e793c9b02fd8aa13e21c31228accb08119643b749c898964b1746d46c3d4cbd2 | CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US |
| 96bcec06264976f37460779acf28c5a7cfe8a3c0aae11a8ffcee05c0bddf08c6 | CN=ISRG Root X1,O=Internet Security Research Group,C=US |
| 0da80cc491638f8c756396e0afac16079829fa06697bfe6d7ee93a6a0c9e212d | CN=IT Private Root CA,O=Cisco,OU=Phoenix |
| 568d6905a2c88708a4b3025190edcfedb1974a606a13c6e5290fcb2ae63edab5 | CN=Starfield Services Root Certificate Authority - G2,O=Starfield Technologies\, Inc.,L=Scottsdale,ST=Arizona,C=US |
| 18ce6cfe7bf14e60b2e347b8dfe868cb31d02ebb3ada271569f50343b46db3a4 | CN=Amazon Root CA 3,O=Amazon,C=US |
| 705eaafc3ff488030017d59832603eefad514171b583808675f45c190e6378f8 | CN=Cisco Root CA M1,O=Cisco |
| 8327bc8c9d69947b3de3c27511537267f59c21b9fa7b613fafbccd53b7024000 | CN=Cisco Root CA 2048,O=Cisco Systems |
| cb3ccbb76031e5e0138f8dd39a23f9de47ffc35e43c1144cea27d46a5ab1cb5f | CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US |