



Certificate Authority Trust List

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Certificate Authority Trust List

The following is the list of trusted Certificate Authorities embedded in the following devices:

- ❑ Cisco IP Phone 7800 Series, as of release 12.7
- ❑ Cisco IP Phone 8800 Series, as of release 12.7

For Mobile and Remote Access through Expressway, the Expressway server must be signed against one of these Certificate Authorities.

Fingerprint	Subject
342cd9d3062da48c346965297f081ebc2ef68fdc	C=AT, L=Vienna, ST=Austria, O=ARGE DATEN - Austrian Society for Data Protection, OU=GLOBALTRUST Certification Service, CN=GLOBALTRUST, emailAddress=info@globaltrust.info
4caee38931d19ae73b31aa75ca33d621290fa75e	C=AT, O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH, OU=A-Trust-nQual-03, CN=A-Trust-nQual-03
cd787a3d5cba8207082848365e9acde9683364d8	C=AT, O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH, OU=A-Trust-Qual-02, CN=A-Trust-Qual-02
2e66c9841181c08fb1dfabd4ff8d5cc72be08f02	C=AT, O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH, OU=A-Trust-Root-05, CN=A-Trust-Root-05
84429d9fe2e73a0dc8aa0ae0a902f2749933fe02	C=AU, O=GOV, OU=DoD, OU=PKI, OU=CAs, CN=ADOCA02
51cca0710af7733d34acdc1945099f435c7fc59f	C=BE, CN=Belgium Root CA2
a59c9b10ec7357515abb660c4d94f73b9e6e9272	C=BE, O=Certipost s.a., n.v., CN=Certipost E-Trust Primary Normalised CA
742cdf1594049cbf17a2046cc639bb3888e02e33	C=BE, O=Certipost s.a., n.v., CN=Certipost E-Trust Primary Qualified CA

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0560a2c738ff98d1172a94fe45fb8a47d665371e	C=BE, O=Certipost s.a., n.v., CN=Certipost E-Trust TOP Root CA
b1bc968bd4f49d622aa89a81f2150152a41d829c	C=BE, O=GlobalSign nv-sa, OU=Root CA, CN=GlobalSign Root CA
1b8eea5796291ac939eab80a811a7373c0937967	C=BM, O=QuoVadis Limited, CN=QuoVadis Root CA 1 G3
ca3afbcf1240364b44b216208880483919937cf7	C=BM, O=QuoVadis Limited, CN=QuoVadis Root CA 2
093c61f38b8bdc7d55df7538020500e125f5c836	C=BM, O=QuoVadis Limited, CN=QuoVadis Root CA 2 G3
1f4914f7d874951dddac02c0befd3a2d82755185	C=BM, O=QuoVadis Limited, CN=QuoVadis Root CA 3
4812bd923ca8c43906e7306d2796e6a4cf222e7d	C=BM, O=QuoVadis Limited, CN=QuoVadis Root CA 3 G3
de3f40bd5093d39b6c60f6dabc076201008976c9	C=BM, O=QuoVadis Limited, OU=Root Certification Authority, CN=QuoVadis Root Certification Authority
705d2b4565c7047a540694a79af7abb842bdc161	C=BR, O=ICP-Brasil, OU=Instituto Nacional de Tecnologia da Informacao - ITI, CN=Autoridade Certificadora Raiz Brasileira v1
a9822e6c6933c63c148c2dcaa44a5cf1aad2c42e	C=BR, O=ICP-Brasil, OU=Instituto Nacional de Tecnologia da Informacao - ITI, CN=Autoridade Certificadora Raiz Brasileira v2
cb658264ea8cda186e1752fb52c397367ea387be	C=CA, ST=Ontario, L=Toronto, O=Echoworx Corporation, OU=Certification Services, CN=Echoworx Root CA2
253f775b0e7797ab645f15915597c39e263631d1	C=ch, O=admin, OU=Services, OU=Certification Authorities, CN=Admin-Root-CA
5f3afc0a8b64f686673474df7ea9a2fef9fa7a51	C=ch, O=Swisscom, OU=Digital Certificate Services, CN=Swisscom Root CA 1
77474fc630e40f4c47643f84bab8c6954a8a41ec	C=ch, O=Swisscom, OU=Digital Certificate Services, CN=Swisscom Root CA 2
e7a19029d3d552dc0d0fc692d3ea880d152e1a6b	C=ch, O=Swisscom, OU=Digital Certificate Services, CN=Swisscom Root EV CA 2
d8c5388ab7301b1b6ed47ae645253a6f9f1a2761	C=CH, O=SwissSign AG, CN=SwissSign Gold CA - G2
0b7199a1c7f3addf7ba7eab8eb574ae80d60ddde	C=CH, O=SwissSign AG, CN=SwissSign Gold Root CA - G3

Fingerprint	Subject
56e0fac03b8f18235518e5d311cae8c24331ab66	C=CH, O=SwissSign AG, CN=SwissSign Platinum CA - G2
a1e7c600aa4170e5b74bc94f9b9703edc261b4b9	C=CH, O=SwissSign AG, CN=SwissSign Platinum Root CA - G3
9baae59f56ee21cb435abe2593dfa7f040d11dcb	C=CH, O=SwissSign AG, CN=SwissSign Silver CA - G2
8d08fc43c0770ca84f4dcc2d41a5d956d786dc4	C=CH, O=SwissSign AG, CN=SwissSign Silver Root CA - G3
a1585187156586cef9c454e22ab15c58745607b4	C=CH, O=The Federal Authorities of the Swiss Confederation, OU=Services, OU=Certification Authorities, CN=Swiss Government Root CA I
c7f7cbe2023666f986025d4a3e313f29eb0c5b38	C=CH, O=The Federal Authorities of the Swiss Confederation, OU=Services, OU=Certification Authorities, CN=Swiss Government Root CA II
5922a1e15aea163521f898396a4646b0441b0fa9	C=CH, O=WISeKey, OU=Copyright (c) 2005, OU=OISTE Foundation Endorsed, CN=OISTE WISeKey Global Root GA CA
eabda240440abbd694930a01d09764c6c2d77966	C=CN, O=CFCA GT CA
e2b8294b5584ab6b58c290466cac3fb8398f8483	C=CN, O=China Financial Certification Authority, CN=CFCA EV ROOT
0f36385b811a25c39b314e83cae9346670cc74b4	C=CN, O=GUANG DONG CERTIFICATE AUTHORITY CO.,LTD., CN=GDCA TrustAUTH R5 ROOT
0b972c9ea6e7cc58d93b20bf71ec412e7209fabf	C=CN, O=UniTrust, CN=UCA Global Root
8250bed5a214433a66377cbc10ef83f669da3a67	C=CN, O=UniTrust, CN=UCA Root
d2441aa8c203aecaa96e501f124d52b68fe4c375	C=CZ, CN=I.CA - Qualified Certification Authority, 09, 2009, O=PrvnÄ certifikacnÄ autorita, a.s., OU=I.CA - Accredited Provider of Certification Services
a0f8db3f0bf417693b282eb74a6ad86df9d448a3	C=CZ, O=ÄEeskÄ; poÄ;ta, s.p. [IÄE 47114983], CN=PostSignum Root QCA 2
6c7ccce7d4ae515f9908cd3ff6e8c378df6fef97	C=DE, O=D-Trust GmbH, CN=D-TRUST Root CA 3 2013
4a058fdfd761db21b0c2ee48579be27f42a4da1c	C=DE, O=D-Trust GmbH, CN=D-TRUST Root Class 2 CA 2007
58e8abb0361533fb80f79b1b6d29d3ff8d5f00f0	C=DE, O=D-Trust GmbH, CN=D-TRUST Root Class 3 CA 2 2009
96c91b0b95b4109842fad0d82279fe60fab91683	C=DE, O=D-Trust GmbH, CN=D-TRUST Root Class 3 CA 2 EV 2009

Fingerprint	Subject
fd1ed1e2021b0b9f73e8eb75ce23436bbcc746eb	C=DE, O=D-Trust GmbH, CN=D-TRUST Root Class 3 CA 2007
85a408c09c193e5d51587dcdd61330fd8cde37bf	C=DE, O=Deutsche Telekom AG, OU=T-TeleSec Trust Center, CN=Deutsche Telekom Root CA 2
1b3d1114ea7a0f9558544195bf6b2582ab40ce9a	C=DE, O=Deutscher Sparkassen Verlag GmbH, OU=S-TRUST Certification Services, CN=S-TRUST Universal Root CA
590d2d7d884f402e617ea562321765cf17d894e9	C=DE, O=T-Systems Enterprise Services GmbH, OU=T-Systems Trust Center, CN=T-TeleSec GlobalRoot Class 2
55a6723ecbf2eccdc3237470199d2abe11e381d1	C=DE, O=T-Systems Enterprise Services GmbH, OU=T-Systems Trust Center, CN=T-TeleSec GlobalRoot Class 3
5cfb1f5db732e4084c0dd4978574e0cbc093beb3	C=DK, O=TRUST2408, CN=TRUST2408 OCES Primary CA
c9a8b9e755805e58e35377a725ebafc37b27ccd7	C=EE, O=AS Sertifitseerimiskeskus, CN=EE Certification Centre Root CA, emailAddress=pki@sk.ee
aec5fb3fc8e1bfc4e54f03075a9ae800b7f7b6fa	C=ES, CN=Autoridad de Certificacion Firmaprofesional CIF A62634068
28903a635b5280fae6774c0b6da7d6baa64af2e8	C=ES, O=Agencia Catalana de Certificacio (NIF Q-0801176-I), OU=Serveis Publics de Certificacio, OU=Vegeu https://www.catcert.net, verarrel (c)03, OU=Jerarquia Entitats de Certificacio Catalanes, CN=EC-ACC
11c5b5f75552b011669c2e9717de6d9bff5fa810	C=ES, O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988, CN=ANCERT Certificados CGN
c09ab0c8ad7114714ed5e21a5a276adcd5e7efcb	C=ES, O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988, CN=ANCERT Certificados Notariales
0cfd83dbae44b9a0c8f676f3b570650b94b69dbf	C=ES, O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988, CN=ANCERT Corporaciones de Derecho Publico
7eb1a0429be5f428ac2b93971d7c8448a536070c	C=ES, O=Agencia Notarial de Certificacion S.L.U. - CIF B83395988, CN=ANCERT Certificados CGN V2
6f62deb86c85585ae42e478db4d76db367585ae6	C=ES, O=Agencia Notarial de Certificacion S.L.U. - CIF B83395988, CN=ANCERT Certificados Notariales V2

Fingerprint	Subject
211165ca379fbb5ed801e31c430a62aac109bcb4	C=ES, O=Colegio de Registradores de la Propiedad y Mercantiles de España, OU=Certificado Propio, CN=Registradores de España - CA Raíz
7f8a77836bdc6d068f8b0737fcc5725413068ca4	C=ES, O=Consejo General de la Abogacia NIF:Q-2863006I, CN=Autoridad de Certificación de la Abogacia
b38fecec0b148aa686c3d00f01ecc8848e8085eb	C=ES, O=DIRECCION GENERAL DE LA POLICIA, OU=DNIE, CN=AC RAIZ DNIE
b865130bedca38d27f69929420770bed86efbc10	C=ES, O=FNMT-RCM, OU=AC RAIZ FNMT-RCM
43f9b110d5bafd48225231b0d0082b372fef9a54	C=ES, O=FNMT, OU=FNMT Clase 2 CA
a073e5c5bd43610d864c21130a855857cc9cea46	C=ES, O=Generalitat Valenciana, OU=PKIGVA, CN=Root CA Generalitat Valenciana
2f783d255218a74a653971b52ca29c45156fe919	C=ES, O=IZENPE S.A., CN=lzenpe.com
30779e9315022e94856a3ff8bcf815b082f9aefd	C=ES, O=IZENPE S.A., CN=lzenpe.com
5bb59920d11b391479463add5100db1d52f43ad4	C=ES, ST=Barcelona, L=Barcelona (see current address at http://www.anf.es , es, address-direccion.html), O=ANF Autoridad de Certificación, OU=ANF Clase 1 CA, emailAddress=info@anf.es, serialNumber=G63287510, CN=ANF Global Root CA
26caff09a7afbae96810cfff821a94326d2845aa	C=ES, ST=Barcelona, L=Barcelona (see current address at http://www.anf.es , es, address-direccion.html), O=ANF Autoridad de Certificación, OU=ANF Clase 1 CA, emailAddress=info@anf.es, serialNumber=G63287510, CN=ANF Global Root CA
cea9890d85d80753a626286cdad78cb566d70cf2	C=ES, ST=Barcelona, L=Barcelona (see current address at https://www.anf.es , address,), O=ANF Autoridad de Certificación, OU=ANF Clase 1 CA, serialNumber=G63287510, CN=ANF Server CA
786a74ac76ab147f9c6a3050ba9ea87efe9ace3c	C=EU, L=Madrid (see current address at www.camerfirma.com , address), serialNumber=A82743287, O=AC Camerfirma S.A., CN=Chambers of Commerce Root - 2008
4abdeec950d359c89aec752a12c5b29f6d6aa0c	C=EU, L=Madrid (see current address at www.camerfirma.com , address), serialNumber=A82743287, O=AC Camerfirma S.A., CN=Global Chambersign Root - 2008
6e3a55a4190c195c93843cc0db722e313061f0b1	C=EU, O=AC Camerfirma SA CIF A82743287, OU= http://www.chambersign.org , CN=Chambers of Commerce Root

Fingerprint	Subject
339b6b1450249b557a01877284d9e02fc3d2d8e9	C=EU, O=AC Camerfirma SA CIF A82743287, OU=http:, , www.chambersign.org, CN=Global Chambersign Root
37f76de6077c90c5b13e931ab74110b4f2e49a27	C=FI, O=Sonera, CN=Sonera Class2 CA
faa7d9fb31b746f200a85e65797613d816e063b5	C=FI, ST=Finland, O=Vaestorekisterikeskus CA, OU=Certification Authority Services, OU=Varmennepalvelut, CN=VRK Gov. Root CA
1ac92f09ea89e28b126dfac51e3af7ea9095a3ee	C=FR, O=ANSSI, OU=0002 130007669, CN=IGC, A AC racine Etat francais
fa0882595f9ca6a11eccbeaf65c764c0ccc311d0	C=FR, O=Certeurope, OU=0002 434202180, CN=Certeurope Root CA 2
2e14daec28f0fa1e8e389a4eabeb26c00ad383c3	C=FR, O=Certinomis, OU=0002 433998903, CN=Certinomis - Autorit�� Racine
9d70bb01a5a4a018112ef71c01b932c534e788a8	C=FR, O=Certinomis, OU=0002 433998903, CN=Certinomis - Root CA
22fdd0b7fda24e0dac492ca0aca67b6a1fe3f766	C=FR, O=Certplus, CN=Certplus Root CA G1
4f658e1fe906d82802e9544741c954255d69cc1a	C=FR, O=Certplus, CN=Certplus Root CA G2
6a174570a916f8e84453eed3d070a1d8da442829	C=FR, O=Certplus, CN=Class 1 Primary CA
74207441729cdd92ec7931d823108dc28192e2bb	C=FR, O=Certplus, CN=Class 2 Primary CA
d2edf88b41b6fe01461d6e2834ec7c8f6c77721e	C=FR, O=Certplus, CN=Class 3 Primary CA
216b2a29e62a00ce820146d8244141b92511b279	C=FR, O=Certplus, CN=Class 3P Primary CA
f44095c238ac73fc4f77bf8f98df70f8f091bc52	C=FR, O=Certplus, CN=Class 3TS Primary CA
b12e13634586a46f1ab2606837582dc4acfd9497	C=FR, O=Dhimyotis, CN=Certigna
9c615c4d4d85103a5326c24dbaeae4a2d2d5cc97	C=FR, O=KEYNECTIS, OU=ROOT, CN=KEYNECTIS ROOT CA
7991e834f7e2eedd08950152e9552d14e958d57e	C=FR, O=OpenTrust, CN=OpenTrust Root CA G1
795f8860c5ab7c3d92e6cbf48de145cd11ef600b	C=FR, O=OpenTrust, CN=OpenTrust Root CA G2
6e2664f356bf3455bfd1933f7c01ded813da8aa6	C=FR, O=OpenTrust, CN=OpenTrust Root CA G3
60d68974b5c2659e8a0fc1887c88d246691b182c	C=FR, ST=France, L=Paris, O=PM, SGDN, OU=DCSSI, CN=IGC, A, emailAddress=igca@sgdn.pm.gouv.fr
3bc0380b33c3f6a60c86152293d9dff54b81c004	C=GB, O=Trustis Limited, OU=Trustis FPS Root CA
d1eb23a46d17d68fd92564c2f1f1601764d8e349	C=GB, ST=Greater Manchester, L=Salford, O=Comodo CA Limited, CN=AAA Certificate Services

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ee869387fffd8349ab5ad14322588789a457b012	C=GB, ST=Greater Manchester, L=Salford, O=COMODO CA Limited, CN=COMODO Certification Authority
6631bf9ef74f9eb6c9d5a60cba6abed1f7bdef7b	C=GB, ST=Greater Manchester, L=Salford, O=COMODO CA Limited, CN=COMODO Certification Authority
9f744e9f2b4dbaec0f312c50b6563b8e2d93c311	C=GB, ST=Greater Manchester, L=Salford, O=COMODO CA Limited, CN=COMODO ECC Certification Authority
afe5d244a8d1194230ff479fe2f897bbcd7a8cb4	C=GB, ST=Greater Manchester, L=Salford, O=COMODO CA Limited, CN=COMODO RSA Certification Authority
db2b7b434dfb7fc1cb5926ec5d9521fe350ff279	C=GR, O=Athens Exchange S.A., CN=ATHEX Root CA
fe45659b79035b98a161b5512eacda580948224d	C=GR, O=Hellenic Academic and Research Institutions Cert. Authority, CN=Hellenic Academic and Research Institutions RootCA 2011
d6daa8208d09d2154d24b52fcb346eb258b28a58	C=HK, O=Hongkong Post, CN=Hongkong Post Root CA 1
89df74fe5cf40f4a80f9e3377d54da91e101318e	C=HU, L=Budapest, O=Microsec Ltd., CN=Microsec e-Szigno Root CA 2009, emailAddress=info@e-szigno.hu
06083f593f15a104a069a46ba903d006b7970991	C=HU, L=Budapest, O=NetLock Kft., OU=TanúsÁtványkiadó (Certification Services), CN=NetLock Arany (Class Gold) FÁtanúsÁtvány
ec93de083c93d933a986b3d5cde25acb2feecf8e	C=HU, L=Budapest, O=NetLock Kft., OU=TanúsÁtványkiadó (Certification Services), CN=NetLock Platina (Class Platinum) FÁtanúsÁtvány
ffb7e08f66e1d0c2582f0245c4970292a46e8803	C=HU, L=Budapest, O=NISZ Nemzeti Infokommunikációs Szolgáltatás Zrt., CN=FÁtanúsÁtványkiadó - Kormányzati Hitelesítés Szolgáltatás
aced5f6553fd25ce015f1f7a483b6a749f6178c6	C=HU, ST=Hungary, L=Budapest, O=NetLock Halozatbiztonsági Kft., OU=Tanusitványkiadó, CN=NetLock Kozjegyzői (Class A) Tanusitványkiadó
d4de20d05e66fc53fe1a50882c78db2852cae474	C=IE, O=Baltimore, OU=CyberTrust, CN=Baltimore CyberTrust Root
4394ce3126ff1a224cdd4deeb4f4ec1da368ef6a	C=IL, O=PersonalID Ltd., OU=Certificate Services, CN=PersonalID Trustworthy RootCA 2011
3bc6dce00307bd676041ebd85970c62f8fda5109	C=IN, O=India PKI, CN=CCA India 2015 SPL
f373b387065a28848af2f34ace192bddc78e9cac	C=IT, L=Milan, O=Actalis S.p.A., 03358520967, CN=Actalis Authentication Root CA

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9158c5ef987301a8903cfdab03d72da1d88909c9	C=IT, L=Milano, O=Actalis S.p.A., 03358520967, CN=Actalis Authentication CA G1
cabb51672400588e6419f1d40878d0403aa20264	C=JP, O=Japan Certification Services, Inc., CN=SecureSign RootCA1
3bc49f48f8f373a09c1ebdf85bb1c365c7d811b3	C=JP, O=Japan Certification Services, Inc., CN=SecureSign RootCA11
00ea522c8a9c06aa3ecce0b4fa6cdc21d92e8099	C=JP, O=Japan Certification Services, Inc., CN=SecureSign RootCA2
8eb03fc3cf7bb292866268b751223db5103405cb	C=JP, O=Japan Certification Services, Inc., CN=SecureSign RootCA3
f00fc37d6a1c9261fb6bc1c218498c5aa4dc51fb	C=JP, O=Japanese Government, OU=GPKI, CN=ApplicationCA2 Root
6f3884568e99c8c6ac0e5dde2db202dd002e3663	C=JP, O=LGPKI, CN=Application CA G3 Root
feb8c432dcf9769aceae3dd8908ffd288665647d	C=JP, O=SECOM Trust Systems CO.,LTD., OU=Security Communication EV RootCA1
5f3b8cf2f810b37d78b4ceec1919c37334b9c774	C=JP, O=SECOM Trust Systems CO.,LTD., OU=Security Communication RootCA2
36b12b49f9819ed74c9ebc380fc6568f5dacb2f7	C=JP, O=SECOM Trust.net, OU=Security Communication RootCA1
7612ed9e49b365b4dad3120c01e603748dae8cf0	C=KR, O=Government of Korea, OU=GPKI, CN=GPKIRootCA1
027268293e5f5d17aaa4b3c3e6361e1f92575eaa	C=KR, O=KISA, OU=Korea Certification Authority Central, CN=KISA RootCA 1
c860a318fcf5b7130b1007ad7f614a40ffff185f	C=LT, O=Skaitmeninio sertifikavimo centras, OU=CA ROOT Services, CN=SSC GDL CA Root B
5a5a4daf7861267c4b1f1e67586bae6ed4feb93f	C=LT, O=Skaitmeninio sertifikavimo centras, OU=Certification Authority, CN=SSC Root CA A
3e84d3bcc544c0f6fa19435c851f3f2fcb8e814	C=LT, O=Skaitmeninio sertifikavimo centras, OU=Certification Authority, CN=SSC Root CA B
23e833233e7d0cc92b7c4279ac19c2f474d604ca	C=LT, O=Skaitmeninio sertifikavimo centras, OU=Certification Authority, CN=SSC Root CA C
971d3486fc1e8e6315f7c6f2e12967c724342214	C=LT, O=VI Registru Centras - I.k. 124110246, OU=Registru Centro Sertifikavimo Centras, CN=VI Registru Centras RCSC (RootCA)
c93c34ea90d9130c0f03004b98bd8b3570915611	C=LU, O=LuxTrust s.a., CN=LuxTrust Global Root

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086418e906cee89c2353b6e27fbd9e7439f76316	C=LV, O=VAS Latvijas Pasts - Vien.reg.Nr.40003052790, OU=Sertifikācijas pakalpojumi, CN=VAS Latvijas Pasts SSI(RCA)
c9321de6b5a82666cf6971a18a56f2d3a8675602	C=LV, OU=Sertifikācijas pakalpojumu dala, CN=E-ME SSI (RCA)
9957c53fc59fb8e739f7a4b7a70e9b8e659f208c	C=my, O=TM, OU=TM Applied Business Certification Authority, CN=TM Applied Business Root Certificate
f138a330a4ea986beb520bb11035876efb9d7f1c	C=NL, O=Digidentity B.V., CN=Digidentity L3 Root CA - G2
76e27ec14fdb82c1c0a675b505be3d29b4eddbbb	C=NL, O=Staat der Nederlanden, CN=Staat der Nederlanden EV Root CA
59af82799186c7b47507cbcf035746eb04ddb716	C=NL, O=Staat der Nederlanden, CN=Staat der Nederlanden Root CA - G2
d8eb6b41519259e0f3e78500c03db68897c9eefc	C=NL, O=Staat der Nederlanden, CN=Staat der Nederlanden Root CA - G3
490a7574de870a47fe58eef6c76bebc60b124099	C=NO, O=Buypass AS-983163327, CN=Buypass Class 2 Root CA
dafaf7fa6684ec068f1450bdc7c281a5bca96457	C=NO, O=Buypass AS-983163327, CN=Buypass Class 3 Root CA
58d1df9595676b63c0f05b1c174d8b840bc878bd	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor ECA-1
ffbdcd782c8435e3c6f26865ccaa83a455bc30a	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-1
b8be6dcb56f155b963d412ca4e0634c794b21cc0	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-2
d3eefbcbbcf49867838626e23bb59ca01e305db7	C=PL, O=Krajowa Izba Rozliczeniowa S.A., CN=SZAFIR ROOT CA
b2bd9031aa6d0e14f4c57fd548258f37b1fb39e4	C=PL, O=Telekomunikacja Polska S.A., OU=Signet Certification Authority, CN=Signet Root CA
6252dc40f71143a22fde9ef7348e064251b18118	C=PL, O=Unizeto Sp. z o.o., CN=Certum CA
07e032e020b72c3f192f0628a2593a19a70f069e	C=PL, O=Unizeto Technologies S.A., OU=Certum Certification Authority, CN=Certum Trusted Network CA

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Fingerprint	Subject
d3dd483e2bbf4c05e8af10f5fa7626cfd3dc3092	C=PL, O=Unizeto Technologies S.A., OU=Certum Certification Authority, CN=Certum Trusted Network CA 2
46af7a31b599460d469d6041145b13651df9170a	C=PT, O=MULTICERT - Serviços de Certificaço Electrnica S.A., CN=MULTICERT Root Certification Authority 01
3913853e45c439a2da718cdfb6f3e033e04fee71	C=PT, O=SCEE, CN=ECRaizEstado
fab7ee36972662fb2db02af6bf03fde87c4b2f9b	C=RO, O=certSIGN, OU=certSIGN ROOT CA
8351509b7df8cfe87bae62aeb9b03a52f4e62c79	C=SA, O=National Center for Digital Certification, OU=Saudi National Root CA
02faf3e291435468607857694df5e45b68851868	C=SE, O=AddTrust AB, OU=AddTrust External TTP Network, CN=AddTrust External CA Root
ccab0ea04c2301d6697bdd379fcd12eb24e3949d	C=SE, O=AddTrust AB, OU=AddTrust TTP Network, CN=AddTrust Class 1 CA Root
585f7875bee7433eb079eaab7d05bb0f7af2bcc	C=SE, O=Inera AB, CN=SITHS Root CA v1
32f442093b36d7031b75ca4daddcb327faa02b9c	C=SE, O=Swedish Social Insurance Agency, CN=Swedish Government Root Authority v2
0456f23d1e9c43aecb0d807f1c0647551a05f456	C=SI, O=ACNLB
0409565b77da582e6495ac0060a72354e64b0192	C=SI, O=Halcom, CN=Halcom CA FO
7fbb6acd7e0ab438daaf6fd50210d007c6c0829c	C=SI, O=Halcom, CN=Halcom CA PO 2
535b001672abbf7b6cc25405ae4d24fe033fd1cc	C=SI, O=Halcom, CN=Halcom Root CA
b1eac3e5b82476e9d50b1ec67d2cc11e12e0b491	C=SI, O=POSTA, OU=POSTARCA
3e42a18706bd0c9ccf594750d2e4d6ab0048fdc4	C=si, O=state-institutions, OU=sigen-ca
7fb9e2c995c97a939f9e81a07aea9b4d70463496	C=si, O=state-institutions, OU=sigov-ca
8e1c74f8a620b9e58af461faec2b4756511a52c6	C=SK, L=Bratislava, O=Disig a.s., CN=CA Disig Root R1
b561ebeaa4dee4254b691a98a55747c234c7d971	C=SK, L=Bratislava, O=Disig a.s., CN=CA Disig Root R2
66f2dcfb3f814ddee9b3206f11defe1bfbdfc132	C=TH, O=Electronic Transactions Development Agency (Public Organization), OU=Thailand National Root Certification Authority, CN=Thailand National Root Certification Authority - G1
9638633c9056ae8814a065d23bdc60a0ee702fa7	C=TN, CN=Tunisian Root Certificate Authority - TunRootCA2, O=National Digital Certification Agency

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Fingerprint	Subject
51c6e70849066ef392d45ca00d6da3628fc35239	C=TR, L=Ankara, O=E-TuÅra EBG BiliÅim Teknolojileri ve Hizmetleri A.Å ., OU=E-Tugra Sertifikasyon Merkezi, CN=E-Tugra Certification Authority
c418f64d46d1df003d2730137243a91211c675fb	C=TR, L=Ankara, O=TÅRKTRUST Bilgi ÅletiÅim ve BiliÅim GÅvenliÅi Hizmetleri A.Å ., CN=TÅRKTRUST Elektronik Sertifika Hizmet SaÅlayÅcÅsÅ H5
8a5c8ceea503e60556bad81bd4f6c9b0ede52fe0	C=TR, L=Ankara, O=TÅRKTRUST Bilgi ÅletiÅim ve BiliÅim GÅvenliÅi Hizmetleri A.Å ., CN=TÅRKTRUST Elektronik Sertifika Hizmet SaÅlayÅcÅsÅ H6
67650df17e8e7e5b8240a4f4564bcfe23d69c6f0	C=TW, O=Chunghwa Telecom Co., Ltd., OU=ePKI Root Certification Authority
b091aa913847f313d727bcefc8179f086f3a8c0f	C=TW, O=Government Root Certification Authority
f48b11bfdeabbe94542071e641de6bbe882b40b9	C=TW, O=Government Root Certification Authority
9cbb4853f6a4f6d352a4e83252556013f5adaf65	C=TW, O=TAIWAN-CA, OU=Root CA, CN=TWCA Global Root CA
df646dcb7b0fd3a96aee88c64e2d676711ff9d5f	C=TW, O=TAIWAN-CA, OU=Root CA, CN=TWCA Root Certification Authority
cf9e876dd3ebfc422697a3b5a37aa076a9062348	C=TW, O=TAIWAN-CA, OU=Root CA, CN=TWCA Root Certification Authority
f9b5b632455f9cbeec575f80dce96e2cc7b278b7	C=US, O=AffirmTrust, CN=AffirmTrust Commercial
293621028b20ed02f566c532d1d6ed909f45002f	C=US, O=AffirmTrust, CN=AffirmTrust Networking
d8a6332ce0036fb185f6634f7d6a066526322827	C=US, O=AffirmTrust, CN=AffirmTrust Premium
b8236b002f1d16865301556c11a437caebffc3bb	C=US, O=AffirmTrust, CN=AffirmTrust Premium ECC
580f804792abc63bbb80154d4dfddd8b2ef2674e	C=US, O=Apple Computer, Inc., OU=Apple Computer Certificate Authority, CN=Apple Root Certificate Authority
611e5b662c593a08ff58d14ae22452d198df6c60	C=US, O=Apple Inc., OU=Apple Certification Authority, CN=Apple Root CA
2c8affce966430ba04c04f81dd4b49c71b5b81a0	C=US, O=Cisco Systems, CN=Cisco RXC-R2
0563b8630d62d75abbc8ab1e4bdfb5a899b24d43	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert Assured ID Root CA
a14b48d943ee0a0e40904f3ce0a4c09193515d3f	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert Assured ID Root G2

Certificate Authority Trust List

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Fingerprint	Subject
f517a24f9a48c6c9f8a200269fdc0f482cab3089	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert Assured ID Root G3
a8985d3a65e5e5c4b2d7d66d40c6dd2fb19c5436	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert Global Root CA
df3c24f9bfd666761b268073fe06d1cc8d4f82a4	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert Global Root G2
7e04de896a3e666d00e687d33ffad93be83d349e	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert Global Root G3
5fb7ee0633e259dbad0c4c9ae6d38f1a61c7dc25	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert High Assurance EV Root CA
ddfb16cd4931c973a2037d3fc83a4d7d775d05e4	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert Trusted Root G4
8cf427fd790c3ad166068de81e57efbb932272d4	C=US, O=Entrust, Inc., OU=See www.entrust.net, legal-terms, OU=(c) 2009 Entrust, Inc. - for authorized use only, CN=Entrust Root Certification Authority - G2
20d80640df9b25f512253a11eaf7598aeb14b547	C=US, O=Entrust, Inc., OU=See www.entrust.net, legal-terms, OU=(c) 2012 Entrust, Inc. - for authorized use only, CN=Entrust Root Certification Authority - EC1
b31eb1b740e36c8402dad37d44df5d4674952f9	C=US, O=Entrust, Inc., OU=www.entrust.net, CPS is incorporated by reference, OU=(c) 2006 Entrust, Inc., CN=Entrust Root Certification Authority
7e784a101c8265cc2de1f16d47b440cad90a1945	C=US, O=Equifax Secure Inc., CN=Equifax Secure Global eBusiness CA-1
d23209ad23d314232174e40d7f9d62139786633a	C=US, O=Equifax, OU=Equifax Secure Certificate Authority
de28f4a4ffe5b92fa3c503d1a349a7f9962a8212	C=US, O=GeoTrust Inc., CN=GeoTrust Global CA
a9e9780814375888f20519b06d2b0d2b6016907d	C=US, O=GeoTrust Inc., CN=GeoTrust Global CA 2
323c118e1bf7b8b65254e2e2100dd6029037f096	C=US, O=GeoTrust Inc., CN=GeoTrust Primary Certification Authority
e621f3354379059a4b68309d8a2f74221587ec79	C=US, O=GeoTrust Inc., CN=GeoTrust Universal CA
379a197b418545350ca60369f33c2eaf474f2079	C=US, O=GeoTrust Inc., CN=GeoTrust Universal CA 2
8d1784d537f3037dec70fe578b519a99e610d7b0	C=US, O=GeoTrust Inc., OU=(c) 2007 GeoTrust Inc. - For authorized use only, CN=GeoTrust Primary Certification Authority - G2

Certificate Authority Trust List

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Fingerprint	Subject
039eedb80be7a03c6953893b20d2d9323a4c2afd	C=US, O=GeoTrust Inc., OU=(c) 2008 GeoTrust Inc. - For authorized use only, CN=GeoTrust Primary Certification Authority - G3
97817950d81c9670cc34d809cf794431367ef474	C=US, O=GTE Corporation, OU=GTE CyberTrust Solutions, Inc., CN=GTE CyberTrust Global Root
df717eaa4ad94ec9558499602d48de5fbcf03a25	C=US, O=IdenTrust, CN=IdenTrust Commercial Root CA 1
ba29416077983ff4f3eff231053b2eea6d4d45fd	C=US, O=IdenTrust, CN=IdenTrust Public Sector Root CA 1
71899a67bf33af31befdc071f8f733b183856332	C=US, O=Network Solutions L.L.C., CN=Network Solutions Certificate Authority
74f8a3c3efe7b390064b83903c21646020e5dfce	C=US, O=Network Solutions L.L.C., CN=Network Solutions Certificate Authority
3a44735ae581901f248661461e3b9cc45ff53a1b	C=US, O=SecureTrust Corporation, CN=Secure Global CA
8782c6c304353bcfd29692d2593e7d44d934ff11	C=US, O=SecureTrust Corporation, CN=SecureTrust CA
ad7e1c28b064ef8f6003402014c3d0e3370eb58a	C=US, O=Starfield Technologies, Inc., OU=Starfield Class 2 Certification Authority
84f2e3dd83133ea91d19527f02d729bfc15fe667	C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 1 Public Primary Certification Authority - G4
517f611e29916b5382fb72e744d98dc3cc536d64	C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 1 Public Primary Certification Authority - G6
6724902e4801b02296401046b4b1672ca975fd2b	C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 2 Public Primary Certification Authority - G4
40b331a0e9bfe855bc3993ca704f4ec251d41d8f	C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 2 Public Primary Certification Authority - G6
58d52db93301a4fd291a8c9645a08fee7f529282	C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 Public Primary Certification Authority - G4
26a16c235a2472229b23628025bc8097c88524a1	C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 Public Primary Certification Authority - G6

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Fingerprint	Subject
aadb9c22238fc401a127bb38ddf41ddb089ef012	C=US, O=thawte, Inc., OU=(c) 2007 thawte, Inc. - For authorized use only, CN=thawte Primary Root CA - G2
91c6d6ee3e8ac86384e548c299295c756c817b81	C=US, O=thawte, Inc., OU=Certification Services Division, OU=(c) 2006 thawte, Inc. - For authorized use only, CN=thawte Primary Root CA
f18b538d1be903b6a6f056435b171589caf36bf2	C=US, O=thawte, Inc., OU=Certification Services Division, OU=(c) 2008 thawte, Inc. - For authorized use only, CN=thawte Primary Root CA - G3
2796bae63f1801e277261ba0d77770028f20eee4	C=US, O=The Go Daddy Group, Inc., OU=Go Daddy Class 2 Certification Authority
cb44a097857c45fa187ed952086cb9841f2d51b5	C=us, O=U.S. Government, OU=FBCA, CN=Common Policy
905f942fd9f28f679b378180fd4f846347f645c1	C=US, O=U.S. Government, OU=FPKI, CN=Federal Common Policy CA
85371ca6e550143dce2803471bde3a09e8f8770f	C=US, O=VeriSign, Inc., OU=Class 3 Public Primary Certification Authority - G2, OU=(c) 1998 VeriSign, Inc. - For authorized use only, OU=VeriSign Trust Network
204285dcf7eb764195578e136bd4b7d1e98e46a5	C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 1999 VeriSign, Inc. - For authorized use only, CN=VeriSign Class 1 Public Primary Certification Authority - G3
61ef43d77fcad46151bc98e0c35912af9feb6311	C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 1999 VeriSign, Inc. - For authorized use only, CN=VeriSign Class 2 Public Primary Certification Authority - G3
132d0d45534b6997cdb2d5c339e25576609b5cc6	C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 1999 VeriSign, Inc. - For authorized use only, CN=VeriSign Class 3 Public Primary Certification Authority - G3
4eb6d578499b1ccf5f581ead56be3d9b6744a5e5	C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 2006 VeriSign, Inc. - For authorized use only, CN=VeriSign Class 3 Public Primary Certification Authority - G5
22d5d8df8f0231d18df79db7cf8a2d64c93f6c3a	C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 2007 VeriSign, Inc. - For authorized use only, CN=VeriSign Class 3 Public Primary Certification Authority - G4

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Fingerprint	Subject
3679ca35668772304d30a5fb873b0fa77bb70d54	C=US, O=VeriSign, Inc., OU=VeriSign Trust Network, OU=(c) 2008 VeriSign, Inc. - For authorized use only, CN=VeriSign Universal Root Certification Authority
912198eef23dcac40939312fee97dd560bae49b1	C=US, O=Verizon Business, OU=OmniRoot, CN=Verizon Global Root CA
70179b868c00a4fa609152223f9f3e32bde00562	C=US, O=VISA, OU=Visa International Service Association, CN=Visa eCommerce Root
5a4d0e8b5fcdcf64e7299a36c060db222ca78e4	C=US, O=VISA, OU=Visa International Service Association, CN=Visa Information Delivery Root CA
b80186d1eb9c86a54104cf3054f34c52b7e558c6	C=US, OU=www.xrampsecurity.com, O=XRamp Security Services Inc, CN=XRamp Global Certification Authority
47beabc922eae80e78783462a79f45c254fde68b	C=US, ST=Arizona, L=Scottsdale, O=GoDaddy.com, Inc., CN=Go Daddy Root Certificate Authority - G2
b51c067cee2b0c3df855ab2d92f4fe39d4e70f0e	C=US, ST=Arizona, L=Scottsdale, O=Starfield Technologies, Inc., CN=Starfield Root Certificate Authority - G2
925a8f8d2c6d04e0665f596aff22d863e8256f3f	C=US, ST=Arizona, L=Scottsdale, O=Starfield Technologies, Inc., CN=Starfield Services Root Certificate Authority - G2
5d003860f002ed829deaa41868f788186d62127f	C=US, ST=Arizona, L=Scottsdale, O=Starfield Technologies, Inc., OU=http:, , certificates.starfieldtech.com, repository, , CN=Starfield Services Root Certificate Authority
4b6bd2d3884e46c80ce2b962bc598cd9d5d84013	C=US, ST=MN, L=Minneapolis, O=Open Access Technology International Inc, CN=OATI WebCARES Root CA
d1cbca5db2d52a7f693b674de5f05a1d0c957df0	C=US, ST=New Jersey, L=Jersey City, O=The USERTRUST Network, CN=USERTrust ECC Certification Authority
2b8f1b57330dbba2d07a6c51f70ee90ddab9ad8e	C=US, ST=New Jersey, L=Jersey City, O=The USERTRUST Network, CN=USERTrust RSA Certification Authority
58119f0e128287ea50fdd987456f4f78dcfad6d4	C=US, ST=UT, L=Salt Lake City, O=The USERTRUST Network, OU=http:, , www.usertrust.com, CN=UTN - DATACorp SGC
b172b1a56d95f91fe50287e14d37ea6a4463768a	C=US, ST=UT, L=Salt Lake City, O=The USERTRUST Network, OU=http:, , www.usertrust.com, CN=UTN-USERFirst-Client Authentication and Email

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Fingerprint	Subject
0483ed3399ac3608058722edbc5e4600e3bef9d7	C=US, ST=UT, L=Salt Lake City, O=The USERTRUST Network, OU=http:, , www.usertrust.com, CN=UTN-USERFirst-Hardware
e12dfb4b41d7d9c32b30514bac1d81d8385e2d46	C=US, ST=UT, L=Salt Lake City, O=The USERTRUST Network, OU=http:, , www.usertrust.com, CN=UTN-USERFirst-Object
f9dd19266b2043f1fe4b3dcb0190aff11f31a69d	C=UY, O=ADMINISTRACION NACIONAL DE CORREOS, OU=SERVICIOS ELECTRONICOS, CN=Correo Uruguayo - Root CA
627f8d7827656399d27d7f9044c9feb3f33efa9a	C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting cc, OU=Certification Services Division, CN=Thawte Premium Server CA, emailAddress=premium-server@thawte.com
23e594945195f2414803b4d564d2a3a3f5d88b8c	C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting cc, OU=Certification Services Division, CN=Thawte Server CA, emailAddress=server-certs@thawte.com
38dd7659c735100b00a237e491b7bc0ffcd2316c	C=ZA, ST=Western Cape, L=Somerset West, O=South African Post Office Limited, OU=SAPO Trust Centre, CN=SAPO Class 3 Root CA, emailAddress=pkiadmin@trustcentre.co.za
6ad23b9dc48e375f859ad9cab585325c23894071	CN=AC1 RAIZ MTIN, serialNumber=S2819001E, OU=PRESTADOR DE SERVICIOS DE CERTIFICACION MTIN, OU=SUBDIRECCION GENERAL DE PROCESO DE DATOS, O=MINISTERIO DE TRABAJO E INMIGRACION, L=MADRID, C=ES
93057a8815c64fce882ffa9116522878bc536417	CN=ACCVRAIZ1, OU=PKIACCV, O=ACCV, C=ES
e0b4322eb2f6a568b654538448184a5036874384	CN=ACEDICOM Root, OU=PKI, O=EDICOM, C=ES
14698989bfb2950921a42452646d37b50af017e2	CN=Apple Root CA - G2, OU=Apple Certification Authority, O=Apple Inc., C=US
b52cb02fd567e0359fe8fa4d4c41037970fe01b0	CN=Apple Root CA - G3, OU=Apple Certification Authority, O=Apple Inc., C=US
2bb1f53e550c1dc5f1d4e6b76a464b550602ac21	CN=Atos TrustedRoot 2011, O=Atos, C=DE
7a1cdde3d2197e7137433d3f99c0b369f706c749	CN=Autoridad Certificadora RaAz Nacional de Uruguay, O=AGESIC, C=UY

Fingerprint	Subject
398ebe9c0f46c079c3c7afe07a2fdd9fae5f8a5c	CN=Autoridad de Certificacion Raiz del Estado Venezolano, C=VE, L=Caracas, ST=Distrito Capital, O=Sistema Nacional de Certificacion Electronica, OU=Superintendencia de Servicios de Certificacion Electronica, emailAddress=acraiz@suscerte.gob.ve
121f9fac629ff133887c1b45640c1a034f03f28f	CN=Autoridad de Certificacion Raiz del Estado Venezolano, C=VE, L=Caracas, ST=Distrito Capital, O=Sistema Nacional de Certificacion Electronica, OU=Superintendencia de Servicios de Certificacion Electronica, emailAddress=acraiz@suscerte.gob.ve
dd83c519d43481fad4c22c03d702fe9f3b22f517	CN=Autoridad de Certificacion Raiz del Estado Venezolano, C=VE, L=Caracas, ST=Distrito Capital, O=Sistema Nacional de Certificacion Electronica, OU=Superintendencia de Servicios de Certificacion Electronica, emailAddress=acraiz@suscerte.gob.ve
80bf3de9a41d768d194b293c85632cdbc8ea8cf7	CN=ComSign Advanced Security CA
e1a45b141a21da1a79f41a42a961d669cd0634c1	CN=ComSign CA, O=ComSign, C=IL
ae3b31bf8fd891079cf1df34cbce6e70d37fb5b0	CN=ComSign Global Root CA, O=ComSign Ltd., C=IL
f9cd0e2cda7624c18bfd0f0abb645b8f7fed57a	CN=ComSign Secured CA, O=ComSign, C=IL
3b166c3b7dc4b751c9fe2afab9135641e388e186	CN=Developer ID Certification Authority, OU=Apple Certification Authority, O=Apple Inc., C=US
d6bf7994f42be5fa29da0bd7587b591f47a44f22	DC=rs, DC=posta, DC=ca, CN=Configuration, CN=Services, CN=Public Key Services, CN=AIA, CN=Posta CA Root
34d499426f9c2bb27b075bab682aae5effcba74	L=Alvaro Obregon, ST=Distrito Federal, C=MX, postalCode=01030, street=Insurgentes Sur 1940, CN=Autoridad Certificadora Raiz de la Secretaria de Economia, OU=Direccion General de Normatividad Mercantil, O=Secretaria de Economia, emailAddress=acrse@economia.gob.mx
de990ced99e0431f60edc3937e7cd5bf0ed9e5fa	O=Cisco Systems, CN=Cisco Root CA 2048
52ec7dbb5c6511ddc1c546dbbc2949b5abe9d0ee	O=Cisco, CN=Cisco ECC Root CA
5ca95fb6e2980ec15afb681bbb7e62b5ad3fa8b8	O=Cisco, CN=Cisco Licensing Root CA
933d633a4e840da4c28e895d900fd3118886f7a3	O=Cisco, CN=Cisco Root CA M2
5f43e5b1bff8788cac1cc7ca4a9ac6222bcc34c6	O=Cybertrust, Inc, CN=Cybertrust Global Root
dac9024f54d8f6df94935fb1732638ca6ad77c13	O=Digital Signature Trust Co., CN=DST Root CA X3
f74dacb21414dcbaab0b947c8a257c325ca88550	O=Digital Signature Trust Co., CN=DST Root CA X4

Fingerprint	Subject
801d62d07b449d5c5c035c98ea61fa443c2a58fe	O=Entrust.net, OU=www.entrust.net, CPS_2048 incorp. by ref. (limits liab.), OU=(c) 1999 Entrust.net Limited, CN=Entrust.net Certification Authority (2048)
503006091d97d4f5ae39f7cbe7927d7d652d3431	O=Entrust.net, OU=www.entrust.net, CPS_2048 incorp. by ref. (limits liab.), OU=(c) 1999 Entrust.net Limited, CN=Entrust.net Certification Authority (2048)
4313bb96f1d5869bc14e6a92f6cff63469878237	O=TeliaSonera, CN=TeliaSonera Root CA v1
6969562e4080f424a1e7199f14baf3ee58ab6abb	OU=GlobalSign ECC Root CA - R4, O=GlobalSign, CN=GlobalSign
1f24c630cda418ef2069ffad4fdd5f463a1b69aa	OU=GlobalSign ECC Root CA - R5, O=GlobalSign, CN=GlobalSign
75e0abb6138512271c04f85fddde38e4b7242efe	OU=GlobalSign Root CA - R2, O=GlobalSign, CN=GlobalSign
d69b561148f01c77c54578c10926df5b856976ad	OU=GlobalSign Root CA - R3, O=GlobalSign, CN=GlobalSign
8094640eb5a7a1ca119c1fddd59f810263a7fbd1	OU=GlobalSign Root CA - R6, O=GlobalSign, CN=GlobalSign
0ff9407618d3d76a4b98f0a8359e0cfd27acced	C=CH, O=WISeKey, OU=OISTE Foundation Endorsed, CN=OISTE WISeKey Global Root GB CA
e252fa953feddb2460bd6e28f39ccccf5eb33fde	C=PL, O=Krajowa Izba Rozliczeniowa S.A., CN=SZAFIR ROOT CA2
010c0695a6981914ffbf5fc6b0b695ea29e912a6	C=GR, L=Athens, O=Hellenic Academic and Research Institutions Cert. Authority, CN=Hellenic Academic and Research Institutions RootCA 2015
9ff1718d92d59af37d7497b4bc6f84680bbab666	C=GR, L=Athens, O=Hellenic Academic and Research Institutions Cert. Authority, CN=Hellenic Academic and Research Institutions ECC RootCA 2015
cabd2a79a1076a31f21d253635cb039d4329a5e8	C=US, O=Internet Security Research Group, CN=ISRG Root X1
8da7f965ec5efc37910f1c6e59fdc1cc6a6ede16	C=US, O=Amazon, CN=Amazon Root CA 1
5a8cef45d7a69859767a8c8b4496b578cf474b1a	C=US, O=Amazon, CN=Amazon Root CA 2
0d44dd8c3c8c1a1a58756481e90f2e2affb3d26e	C=US, O=Amazon, CN=Amazon Root CA 3
f6108407d6f8bb67980cc2e244c2ebae1cef63be	C=US, O=Amazon, CN=Amazon Root CA 4
1e0e56190ad18b2598b20444ff668a0417995f3f	C=LU, O=LuxTrust S.A., CN=LuxTrust Global Root 2

Certificate Authority Trust List

Certificate Authority Trust List

Fingerprint	Subject
3143649becce27eced3a3f0b8f0de4e891ddeeca	C=TR, L=Gebze – Kocaeli, O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu – TUBITAK, OU=Kamu Sertifikasyon Merkezi - Kamu SM, CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1
b7ab3308d1ea4477ba1480125a6fbda936490cbb	C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com Root Certification Authority RSA
c3197c3924e654af1bc4ab20957ae2c30e13026a	C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com Root Certification Authority ECC
743af0529bd032a0f44a83cdd4baa97b7c2ec49a	C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority RSA R2
4cdd51a3d1f5203214b0c6c532230391c746426d	C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority ECC
51501fbfce69189d609cfaf140c576755dcc1fdf	C=US, O=WFA Hotspot 2.0, CN=Hotspot 2.0 Trust Root CA - 03
559bba7b0ffe80d6d3829b1fd07aa4d322194790	CN=CAEDICOM Root, O=EDICOM, C=ES
2d0d5214ff9ead9924017420476e6c852727f543	C=FR, O=Dhimyotis, OU=0002 48146308100036, CN=Certigna Root CA
746f88f9ac163c53009eef920c4067756a15717e	C=SE, O=Swedish Social Insurance Agency, CN=Swedish Government Root Authority v3
892a1bd4c8b0f8aa9a65ed4cb9d3bf4840b34bc1	C=GR, O=ATHENS STOCK EXCHANGE, CN=ATHEX Root CA G2
2a1d6027d94ab10a1c4d915ccd33a0cb3e2d54cb	C=US, O=Google Trust Services LLC, CN=GTS Root R4
d273962a2a5e399f733fe1c71e643f033834fc4d	C=US, O=Google Trust Services LLC, CN=GTS Root R2
0ab5c3cd7448b86d711e77a549838b87ce525f7f	C=SG, O=Netrust Pte Ltd, OU=Netrust Certificate Authority, CN=Netrust Root CA 2
21dace4c2c34e66468ee06314db055a0a89d4c1d	C=JP, O=LGPKI, CN=Application CA G4 Root
3a4979b40fa841488200b582fbee63aab9919ae	C=SI, O=Republika Slovenija, 2.5.4.97=VATSI-17659957, CN=SI-TRUST Root
80f95b741c38399495c34f20c23e7336314d3c6b	C=US, ST=FL, L=Jacksonville, O=Network Solutions L.L.C., CN=Network Solutions ECC Certificate Authority

Fingerprint	Subject
1139a49e8484aaf2d90d985ec4741a65dd5d94e2	C=ES, ST=MADRID, L=MADRID, OU=see current address at www.camerfirma.com, address, OU=GLOBAL CHAMBERSIGN ROOT – 2016, serialNumber=A82743287, 2.5.4.97=VATES-A82743287, O=AC CAMERFIRMA S.A., CN=GLOBAL CHAMBERSIGN ROOT - 2016
c303c8227492e561a29c5f79912b1e441391303a	C=JP, O=SECOM Trust Systems CO.,LTD., CN=Security Communication RootCA3
a3a1b06f2461234ae336a5c237fca6ffddf0d73a	C=CN, O=UniTrust, CN=UCA Extended Validation Root
d496592b305707386cc5f3cdb259ae66d7661fca	C=ES, serialNumber=Q2863006I, O=CONSEJO GENERAL DE LA ABOGACIA, CN=ACA ROOT
81ac5de150d1b8de5d3e0e266a136b737862d322	C=TW, O=Chunghwa Telecom Co., Ltd., CN=ePKI EV SSL Certification Authority - G1
d99b104298594763f0b9a927b79269cb47dd158b	C=TW, O=Chunghwa Telecom Co., Ltd., CN=ePKI Root Certification Authority - G2
9b0959898154081bf6a90e9b9e58a4690c9ba104	C=CZ, O=Prvn\xC3\xAD certifika\xC4\x8Dn\xC3\xAD autorita, a.s., CN=I.CA Root CA, RSA, serialNumber=NTRCZ-26439395
1cb7ede176bcdfe0c866f46fbf980e901e5ce35	C=US, ST=Texas, L=Houston, O=SSL Corporation, CN=SSL.com EV Root Certification Authority RSA
28f97816197aff182518aa44fec1a0ce5cb64c8a	C=CN, O=UniTrust, CN=UCA Global G2 Root
b80e26a9bfd2b23bc0ef46c9bac7bbf61d0d4141	C=JP, O=SECOM Trust Systems CO.,LTD., CN=Security Communication ECC RootCA1
2de16a5677baca39e1d68c30dcb14abe22a6179b	C=ES, ST=MADRID, L=MADRID, OU=see current address at www.camerfirma.com, address, OU=CHAMBERS OF COMMERCE ROOT – 2016, serialNumber=A82743287, 2.5.4.97=VATES-A82743287, O=AC CAMERFIRMA S.A., CN=CHAMBERS OF COMMERCE ROOT - 2016
8e928c0fc27bb7aba34e6bc0ca1250cb57b60f84	C=US, ST=FL, L=Jacksonville, O=Network Solutions L.L.C., CN=Network Solutions RSA Certificate Authority
a9cafe9dfd67f4145ad397d0e2f3050d198de6ee	C=AU, O=GOV, OU=DoD, OU=PKI, OU=Cas, CN=Australian Defence Public Root CA

Fingerprint	Subject
cceae32445cd4218dd188eadceb3133c7fb340ad	C=CH, O=Swiss Government PKI, OU=www.pki.admin.ch, CN=Swiss Government Root CA III
313b8d0e7e2e4d20ae8668ffe59db5193cbf7a32	C=MY, O=Digicert Sdn. Bhd., CN=PosDigicert Class 2 Root CA G2
e1c950e6ef22f84c5645728b922060d7d5a7a3e8	C=US, O=Google Trust Services LLC, CN=GTS Root R1
30d4246f07fdb91898a0be9496611eb8c5e46e5	C=US, O=Google Trust Services LLC, CN=GTS Root R3
23d731fedc5c8bb97de6dc8e13b411bd4f24004f	C=SI, O=Halcom d.d., 2.5.4.97=VATSI-43353126, CN=Halcom Root Certificate Authority
e011845e34debe8881b99cf61626d1961fc3b931	C=CH, O=WISeKey, OU=OISTE Foundation Endorsed, CN=OISTE WISeKey Global Root GC CA
26f993b4ed3d2827b0b94ba7e9151da38d92e532	C=RO, O=CERTSIGN SA, OU=certSIGN ROOT CA G2
465b26bebe7106dd8544c1139d9fa25700c1d7bd	C=AT, ST=Wien, L=Wien, O=e-commerce monitoring GmbH, OU=GLOBALTRUST Certification Service, CN=GLOBALTRUST 2015
ac1ede2e1c970fed3ee85f8c3acfe2bac04a1376	O=Cisco, CN=Cisco Root CA 2099
45ad6bb499011bb4e84e84316a81c27d89ee5ce7	O=Cisco, CN=Cisco Root CA M1
ec503507b215c4956219e2a89a5b42992c4c2c20	C=ES, O=FNMT-RCM, OU=AC RAIZ FNMT-RCM
ac4a728b4dfc35601fa34b922422a42c253f756c	C=US, O=HydrantID (Avalanche Cloud Corporation), CN=HydrantID SSL ICA G2

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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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