



Certificate Authority Trust List

Cisco Desk Phone 9800 Series and Cisco Video Phone 8875

First Published: January 22, 2025

Last Updated: August 08, 2025

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 3.3.1 and 3.4.1, and includes two lists:

- Trust list for on-premises phones on Cisco Unified Communications Manager (see page 2-14)
- Trust list for multiplatform phones on Cisco BroadWorks or a third-party Open SIP platform (see page 14-28)

Change history

08/08/2025: Added PhoneOS 3.4.1 to the applicable firmware versions. No changes in the CA trust lists.

01/22/2025: Initial release

CA trust list for Cisco Unified Communications Manager

Fingerprint	Subject
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Fingerprint	Subject
62:FF:D9:9E:C0:65:0D:03:CE:75:93:D2:ED:3F:2D:32:C9:E3:E5:4A;C = ES	O = FNMT-RCM, OU = Ceres, organizationIdentifier = VATES-Q2826004J, CN = AC RAIZ FNMT-RCM SERVIDORES SEGUROS
4A:BD:EE:EC:95:0D:35:9C:89:AE:C7:52:A1:2C:5B:29:F6:D6:AA:0C;C = EU	L = Madrid (see current address at www.camerfirma.com/address), serialNumber = A82743287, O = AC Camerfirma S.A., CN = Global Chambersign Root - 2008
6C:15:5E:D7:27:1A:90:4A:0D:C0:40:F0:C8:57:FF:53:BF:6D:B2:90;C = BR	O = ICP-Brasil, OU = Instituto Nacional de Tecnologia da Informacao - ITI, CN = Autoridade Certificadora Raiz Brasileira v10
DA:FA:F7:FA:66:84:EC:06:8F:14:50:BD:C7:C2:81:A5:BC:A9:64:57;C = NO	O = Buypass AS-983163327, CN = Buypass Class 3 Root CA
58:A2:D0:EC:20:52:81:5B:C1:F3:F8:64:02:24:4E:C2:8E:02:4B:02;C = HK	ST = Hong Kong, L = Hong Kong, O = Hongkong Post, CN = Hongkong Post Root CA 3
2B:8F:1B:57:33:0D:BB:A2:D0:7A:6C:51:F7:0E:E9:0D:DA:B9:AD:8E;C = US	ST = New Jersey, L = Jersey City, O = The USERTRUST Network, CN = USERTrust RSA Certification Authority
46:5B:26:BE:BE:71:06:DD:85:44:C1:13:9D:9F:A2:57:00:C1:D7:BD;C = AT	ST = Wien, L = Wien, O = e-commerce monitoring GmbH, OU = GLOBALTRUST Certification Service, CN = GLOBALTRUST 2015
01:0C:06:95:A6:98:19:14:FF:BF:5F:C6:B0:B6:95:EA:29:E9:12:A6;C = GR	L = Athens, O = Hellenic Academic and Research Institutions Cert. Authority, CN = Hellenic Academic and Research Institutions RootCA 2015
9A:44:49:76:32:DB:DE:FA:D0:BC:FB:5A:7B:17:BD:9E:56:09:24:94;C = US	O = Google Trust Services LLC, CN = GTS Root R2
7E:B1:A0:42:9B:E5:F4:28:AC:2B:93:97:1D:7C:84:48:A5:36:07:0C;C = ES	O = Agencia Notarial de Certificacion S.L.U. - CIF B83395988, CN = ANCERT Certificados CGN V2
D1:CB:CA:5D:B2:D5:2A:7F:69:3B:67:4D:E5:F0:5A:1D:0C:95:7D:F0;C = US	ST = New Jersey, L = Jersey City, O = The USERTRUST Network, CN = USERTrust ECC Certification Authority
EA:DB:0A:B9:DC:79:38:02:14:35:FE:D1:3E:48:84:06:A1:AA:29:2A;C = US	O = "Entrust, Inc.", CN = Entrust 4K EV TLS Root CA - 2022
EC:2C:83:40:72:AF:26:95:10:FF:0E:F2:03:EE:31:70:F6:78:9D:CA;C = US	O = SSL Corporation, CN = SSL.com TLS RSA Root CA 2022
07:E0:32:E0:20:B7:2C:3F:19:2F:06:28:A2:59:3A:19:A7:0F:06:9E;C = PL	O = Unizeto Technologies S.A., OU = Certum Certification Authority, CN = Certum Trusted Network CA
2B:B1:F5:3E:55:0C:1D:C5:F1:D4:E6:B7:6A:46:4B:55:06:02:AC:21;CN = Atos TrustedRoot 2011	O = Atos, C = DE
EA:F8:3D:84:27:89:75:76:CD:D1:B3:09:57:77:3E:5F:74:B9:B7:CC;C = FI	O = Digi- ja vaestotietovirasto CA, OU = Certification Authority Services, OU = Varmennepalvelut, CN = DVV Gov. Root CA - G3 RSA
83:51:50:9B:7D:F8:CF:E8:7B:AE:62:AE:B9:B0:3A:52:F4:E6:2C:79;C = SA	O = National Center for Digital Certification, OU = Saudi National Root CA
CF:9E:87:6D:D3:EB:FC:42:26:97:A3:B5:A3:7A:A0:76:A9:06:23:48;C = TW	O = TAIWAN-CA, OU = Root CA, CN = TWCA Root Certification Authority
30:D4:24:6F:07:FF:DB:91:89:8A:0B:E9:49:66:11:EB:8C:5E:46:E5;C = US	O = Google Trust Services LLC, CN = GTS Root R3

Fingerprint	Subject
9F:F1:71:8D:92:D5:9A:F3:7D:74:97:B4:BC:6F:84:68:0B:BA:B6:66;C = GR	L = Athens, O = Hellenic Academic and Research Institutions Cert. Authority, CN = Hellenic Academic and Research Institutions ECC RootCA 2015
14:88:4E:86:26:37:B0:26:AF:59:62:5C:40:77:EC:35:29:BA:96:01;C = US	O = "Entrust, Inc.", OU = See www.entrust.net/legal-terms , OU = "(c) 2015 Entrust, Inc. - for authorized use only", CN = Entrust Root Certification Authority - G4
67:65:0D:F1:7E:8E:7E:5B:82:40:A4:F4:56:4B:CF:E2:3D:69:C6:F0;C = TW	O = "Chunghwa Telecom Co., Ltd.", OU = ePKI Root Certification Authority
54:D3:AC:B3:BD:57:56:F6:85:9D:CE:E5:C3:21:E2:D4:AD:83:D0:93;C = DE	O = Deutsche Telekom Security GmbH, CN = Telekom Security TLS RSA Root 2023
28:90:3A:63:5B:52:80:FA:E6:77:4C:0B:6D:A7:D6:BA:A6:4A:F2:E8;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
92:5A:8F:8D:2C:6D:04:E0:66:5F:59:6A:FF:22:D8:63:E8:25:6F:3F;C = US	ST = Arizona, L = Scottsdale, O = "Starfield Technologies, Inc.", CN = Starfield Services Root Certificate Authority - G2
B7:AB:33:08:D1:EA:44:77:BA:14:80:12:5A:6F:BD:A9:36:49:0C:BB;C = US	ST = Texas, L = Houston, O = SSL Corporation, CN = SSL.com Root Certification Authority RSA
D6:9B:56:11:48:F0:1C:77:C5:45:78:C1:09:26:DF:5B:85:69:76:AD;OU = GlobalSign Root CA - R3	O = GlobalSign, CN = GlobalSign
74:3A:F0:52:9B:D0:32:A0:F4:4A:83:CD:D4:BA:A9:7B:7C:2E:C4:9A;C = US	ST = Texas, L = Houston, O = SSL Corporation, CN = SSL.com EV Root Certification Authority RSA R2
1F:24:C6:30:CD:A4:18:EF:20:69:FF:AD:4F:DD:5F:46:3A:1B:69:AA;OU = GlobalSign ECC Root CA - R5	O = GlobalSign, CN = GlobalSign
C3:03:C8:22:74:92:E5:61:A2:9C:5F:79:91:2B:1E:44:13:91:30:3A;C = JP	O = "SECOM Trust Systems CO.,LTD.", CN = Security Communication RootCA3
EE:86:93:87:FF:FD:83:49:AB:5A:D1:43:22:58:87:89:A4:57:B0:12;C = GB	ST = Greater Manchester, L = Salford, O = COMODO CA Limited, CN = COMODO Certification Authority
4C:DD:51:A3:D1:F5:20:32:14:B0:C6:C5:32:23:03:91:C7:46:42:6D;C = US	ST = Texas, L = Houston, O = SSL Corporation, CN = SSL.com EV Root Certification Authority ECC
CA:BD:2A:79:A1:07:6A:31:F2:1D:25:36:35:CB:03:9D:43:29:A5:E8;C = US	O = Internet Security Research Group, CN = ISRG Root X1
47:BE:AB:C9:22:EA:E8:0E:78:78:34:62:A7:9F:45:C2:54:FD:E6:8B;C = US	ST = Arizona, L = Scottsdale, O = "GoDaddy.com, Inc.", CN = Go Daddy Root Certificate Authority - G2
3A:49:79:B4:0F:A8:41:48:82:00:B5:82:FB:EE:B6:3A:AB:99:19:AE;C = SI	O = Republika Slovenija, organizationIdentifier = VATSI-17659957, CN = SI-TRUST Root
61:DB:8C:21:59:69:03:90:D8:7C:9C:12:86:54:CF:9D:3D:F4:DD:07;C = DE	O = D-Trust GmbH, CN = D-TRUST EV Root CA 1 2020

Fingerprint	Subject
66:31:BF:9E:F7:4F:9E:B6:C9:D5:A6:0C:BA:6A:BE:D1:F7:BD:EF:7B;C = GB	ST = Greater Manchester, L = Salford, O = COMODO CA Limited, CN = COMODO Certification Authority
B8:23:6B:00:2F:1D:16:86:53:01:55:6C:11:A4:37:CA:EB:FF:C3:BB;C = US	O = AffirmTrust, CN = AffirmTrust Premium ECC
89:D4:83:03:4F:9E:9A:48:80:5F:72:37:D4:A9:A6:EF:CB:7C:1F:D1;C = HU	L = Budapest, O = Microsec Ltd., organizationIdentifier = VATHU-23584497, CN = e-Szigno Root CA 2017
B1:BC:96:8B:D4:F4:9D:62:2A:A8:9A:81:F2:15:01:52:A4:1D:82:9C;C = BE	O = GlobalSign nv-sa, OU = Root CA, CN = GlobalSign Root CA
B2:14:2A:A9:69:EB:0D:DB:5C:E9:02:46:84:CD:85:0B:69:E4:18:E5;C = FI	O = Digi- ja vaestotietovirasto CA, OU = Certification Authority Services, OU = Varmennepalvelut, CN = DVV Gov. Root CA - G3 ECC
2C:A6:69:D0:B2:79:08:F7:29:C9:10:C6:23:17:8E:98:14:35:9B:C9;O = Cisco	CN = Cisco Basic Assurance Root CA 2099
66:F2:DC:FB:3F:81:4D:DE:E9:B3:20:6F:11:DE:FE:1B:FB:DF:E1:32;C = TH	O = Electronic Transactions Development Agency (Public Organization), OU = Thailand National Root Certification Authority, CN = Thailand National Root Certification Authority - G1
99:9A:64:C3:7F:F4:7D:9F:AB:95:F1:47:69:89:14:60:EE:C4:C3:C5;C = US	O = Microsoft Corporation, CN = Microsoft ECC Root Certificate Authority 2017
0A:B5:C3:CD:74:48:B8:6D:71:1E:77:A5:49:83:8B:87:CE:52:5F:7F;C = SG	O = Netrust Pte Ltd, OU = Netrust Certificate Authority, CN = Netrust Root CA 2
7E:04:DE:89:6A:3E:66:6D:00:E6:87:D3:3F:FA:D9:3B:E8:3D:34:9E;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G3
05:63:B8:63:0D:62:D7:5A:BB:C8:AB:1E:4B:DF:B5:A8:99:B2:4D:43;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Assured ID Root CA
C3:C5:07:48:C7:65:24:3C:F8:B0:06:60:69:10:72:D9:55:62:D6:70;OU = Phoenix	O = Cisco, CN = IT Private Root CA
2F:78:3D:25:52:18:A7:4A:65:39:71:B5:2C:A2:9C:45:15:6F:E9:19;C = ES	O = IZENPE S.A., CN = Izenpe.com
26:C7:6B:43:65:E0:03:17:F4:51:62:90:25:98:B0:71:72:BB:25:E8;O = Cisco	CN = Cisco ECC Root CA
3C:3F:EF:57:0F:FE:65:93:86:9E:A0:FE:B0:F6:ED:8E:D1:13:C7:E5;C = US	O = CommScope, CN = CommScope Public Trust ECC Root-02
5C:A9:5F:B6:E2:98:0E:C1:5A:FB:68:1B:BB:7E:62:B5:AD:3F:A8:B8;O = Cisco	CN = Cisco Licensing Root CA
2A:1D:60:27:D9:4A:B1:0A:1C:4D:91:5C:CD:33:A0:CB:3E:2D:54:CB;C = US	O = Google Trust Services LLC, CN = GTS Root R4
D5:EC:8D:7B:4C:BA:79:F4:E7:E8:CB:9D:6B:AE:77:83:10:03:21:6A;C = CN	O = BEIJING CERTIFICATE AUTHORITY, CN = BJCA Global Root CA1
3A:44:73:5A:E5:81:90:1F:24:86:61:46:1E:3B:9C:C4:5F:F5:3A:1B;C = US	O = SecureTrust Corporation, CN = Secure Global CA
F6:B1:1C:1A:83:38:E9:7B:DB:B3:A8:C8:33:24:E0:2D:9C:7F:26:66;C = TW	O = TAIWAN-CA, OU = Root CA, CN = TWCA CYBER Root CA
A8:31:11:74:A6:14:15:0D:CA:77:DD:0E:E4:0C:5D:58:FC:A0:72:A5;C = ES	O = Firmaprofesional SA, organizationIdentifier = VATES-A62634068, CN = FIRMAPROFESIONAL CA ROOT-A WEB
B8:0E:26:A9:BF:D2:B2:3B:C0:EF:46:C9:BA:C7:BB:F6:1D:0D:41:41;C = JP	O = "SECOM Trust Systems CO.,LTD.", CN = Security Communication ECC RootCA1

Fingerprint	Subject
D1:EB:23:A4:6D:17:D6:8F:D9:25:64:C2:F1:F1:60:17:64:D8:E3:49;C = GB	ST = Greater Manchester, L = Salford, O = Comodo CA Limited, CN = AAA Certificate Services
B9:99:CD:D1:73:50:8A:C4:47:05:08:9C:8C:88:FB:BE:A0:2B:40:CD;C = FI	O = Telia Finland Oyj, CN = Telia Root CA v2
A0:F8:DB:3F:0B:F4:17:69:3B:28:2E:B7:4A:6A:D8:6D:F9:D4:48:A3;C = CZ	O = "\C4\8Cesk\C3\A1 po\C5\A1ta, s.p. [\C4\8C 47114983]", CN = PostSignum Root QCA 2
57:73:A5:61:5D:80:B2:E6:AC:38:82:FC:68:07:31:AC:9F:B5:92:5A;C = CN	O = "TrustAsia Technologies, Inc.", CN = TrustAsia Global Root CA G4
F3:3E:78:3C:AC:DF:F4:A2:CC:AC:67:55:69:56:D7:E5:16:3C:E1:ED;C = PL	O = Asseco Data Systems S.A., OU = Certum Certification Authority, CN = Certum EC-384 CA
A1:4B:48:D9:43:EE:0A:0E:40:90:4F:3C:E0:A4:C0:91:93:51:5D:3F;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Assured ID Root G2
82:EF:4C:64:F0:57:CA:00:38:F0:DB:5B:76:C2:4B:65:4D:7C:DA:78;C = US	O = VISA, OU = Visa International Service Association, CN = Visa Public RSA Root CA
F6:9C:DB:B0:FC:F6:02:13:B6:52:32:A6:A3:91:3F:16:70:DA:C3:E1;C = CN	O = "iTrusChina Co.,Ltd.", CN = vTrus ECC Root CA
FE:45:65:9B:79:03:5B:98:A1:61:B5:51:2E:AC:DA:58:09:48:22:4D;C = GR	O = Hellenic Academic and Research Institutions Cert. Authority, CN = Hellenic Academic and Research Institutions RootCA 2011
E9:A8:5D:22:14:52:1C:5B:AA:0A:B4:BE:24:6A:23:8A:C9:BA:E2:A9;C = TR	L = Ankara, O = E-Tugra EBG A.S., OU = E-Tugra Trust Center, CN = E-Tugra Global Root CA RSA v3
E1:C9:50:E6:EF:22:F8:4C:56:45:72:8B:92:20:60:D7:D5:A7:A3:E8;C = US	O = Google Trust Services LLC, CN = GTS Root R1
17:F3:DE:5E:9F:0F:19:E9:8E:F6:1F:32:26:6E:20:C4:07:AE:30:EE;C = US	O = "DigiCert, Inc.", CN = DigiCert TLS ECC P384 Root G5
50:30:06:09:1D:97:D4:F5:AE:39:F7:CB:E7:92:7D:7D:65:2D:34:31;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)
B5:1C:06:7C:EE:2B:0C:3D:F8:55:AB:2D:92:F4:FE:39:D4:E7:0F:0E;C = US	ST = Arizona, L = Scottsdale, O = "Starfield Technologies, Inc.", CN = Starfield Root Certificate Authority - G2
76:12:ED:9E:49:B3:65:B4:DA:D3:12:0C:01:E6:03:74:8D:AE:8C:F0;C = KR	O = Government of Korea, OU = GPKI, CN = GPKIRootCA1
93:3D:63:3A:4E:84:0D:A4:C2:8E:89:5D:90:0F:D3:11:88:86:F7:A3;O = Cisco	CN = Cisco Root CA M2
2D:0D:52:14:FF:9E:AD:99:24:01:74:20:47:6E:6C:85:27:27:F5:43;C = FR	O = Dhimyotis, OU = 0002 48146308100036, CN = Certigna Root CA
74:6F:88:F9:AC:16:3C:53:00:9E:EF:92:0C:40:67:75:6A:15:71:7E;C = SE	O = Swedish Social Insurance Agency, CN = Swedish Government Root Authority v3
0F:36:38:5B:81:1A:25:C3:9B:31:4E:83:CA:E9:34:66:70:CC:74:B4;C = CN	O = "GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.", CN = GDCA TrustAUTH R5 ROOT
9F:5F:D9:1A:54:6D:F5:0C:71:F0:EE:7A:BD:17:49:98:84:73:E2:39;C = US	O = SSL Corporation, CN = SSL.com TLS ECC Root CA 2022
48:12:BD:92:3C:A8:C4:39:06:E7:30:6D:27:96:E6:A4:CF:22:2E:7D;C = BM	O = QuoVadis Limited, CN = QuoVadis Root CA 3 G3

Fingerprint	Subject
6B:A0:B0:98:E1:71:EF:5A:AD:FE:48:15:80:77:10:F4:BD:6F:0B:28;OU = GlobalSign ECC Root CA - R4	O = GlobalSign, CN = GlobalSign
D0:58:49:DE:40:04:DA:6E:86:7D:EE:00:06:71:CD:A8:F4:23:26:6F;C = AT	O = A-Trust GmbH, OU = A-Trust-Root-09, CN = A-Trust-Root-09
E0:11:84:5E:34:DE:BE:88:81:B9:9C:F6:16:26:D1:96:1F:C3:B9:31;C = CH	O = WiSeKey, OU = OISTE Foundation Endorsed, CN = OISTE WiSeKey Global Root GC CA
93:05:7A:88:15:C6:4F:CE:88:2F:FA:91:16:52:28:78:BC:53:64:17;CN = ACCVRAIZ1	OU = PKIACCV, O = ACCV, C = ES
F9:E1:6D:DC:01:89:CF:D5:82:45:63:3E:C5:37:7D:C2:EB:93:6F:2B;C = US	O = Certainly, CN = Certainly Root E1
FF:B7:E0:8F:66:E1:D0:C2:58:2F:02:45:C4:97:02:92:A4:6E:88:03;C = HU	L = Budapest, O = NISZ Nemzeti Infokommunikáció Szolgálat Kft., CN = FIC591tan\BAs\ADt\A1nykiad\B3 - Korm\A1nyzati Hiteles\ADt\A9s Szolgálat\B3
30:43:FA:4F:F2:57:DC:A0:C3:80:EE:2E:58:EA:78:B2:3F:E6:BB:C1;C = IN	OU = emSign PKI, O = eMudhra Technologies Limited, CN = emSign ECC Root CA - G3
9F:74:4E:9F:2B:4D:BA:EC:0F:31:2C:50:B6:56:3B:8E:2D:93:C3:11;C = GB	ST = Greater Manchester, L = Salford, O = COMODO CA Limited, CN = COMODO ECC Certification Authority
3B:C6:DC:E0:03:07:BD:67:60:41:EB:D8:59:70:C6:2F:8F:DA:51:09;C = IN	O = India PKI, CN = CCA India 2015 SPL
51:50:1F:BF:CE:69:18:9D:60:9C:FA:F1:40:C5:76:75:5D:CC:1F:DF;C = US	O = WFA Hotspot 2.0, CN = Hotspot 2.0 Trust Root CA - 03
AD:7E:1C:28:B0:64:EF:8F:60:03:40:20:14:C3:D0:E3:37:0E:B5:8A;C = US	O = "Starfield Technologies, Inc.", OU = Starfield Class 2 Certification Authority
CA:3A:FB:CF:12:40:36:4B:44:B2:16:20:88:80:48:39:19:93:7C:F7;C = BM	O = QuoVadis Limited, CN = QuoVadis Root CA 2
8F:43:28:8A:D2:72:F3:10:3B:6F:B1:42:84:85:EA:30:14:C0:BC:FE;C = US	ST = Washington, L = Redmond, O = Microsoft Corporation, CN = Microsoft Root Certificate Authority 2011
34:2C:D9:D3:06:2D:A4:8C:34:69:65:29:7F:08:1E:BC:2E:F6:8F:DC;C = AT	L = Vienna, ST = Austria, O = ARGE DATEN - Austrian Society for Data Protection, OU = GLOBALTRUST Certification Service, CN = GLOBALTRUST, emailAddress = info@globaltrust.info
EC:50:35:07:B2:15:C4:95:62:19:E2:A8:9A:5B:42:99:2C:4C:2C:20;C = ES	O = FNMT-RCM, OU = AC RAIZ FNMT-RCM
6A:92:E4:A8:EE:1B:EC:96:45:37:E3:29:57:49:CD:96:E3:E5:D2:60;C = TW	O = "Chunghwa Telecom Co., Ltd.", CN = HiPKI Root CA - G1
0B:BE:C2:27:22:49:CB:39:AA:DB:35:5C:53:E3:8C:AE:78:FF:B6:FE;C = ES	CN = Autoridad de Certificación Firmaprofesional CIF A62634068
49:0A:75:74:DE:87:0A:47:FE:58:EE:F6:C7:6B:EB:C6:0B:12:40:99;C = NO	O = Buypass AS-983163327, CN = Buypass Class 2 Root CA
26:F9:93:B4:ED:3D:28:27:B0:B9:4B:A7:E9:15:1D:A3:8D:92:E5:32;C = RO	O = CERTSIGN SA, OU = certSIGN ROOT CA G2
5F:3B:8C:F2:F8:10:B3:7D:78:B4:CE:EC:19:19:C3:73:34:B9:C7:74;C = JP	O = "SECOM Trust Systems CO.,LTD.", OU = Security Communication RootCA2
28:F9:78:16:19:7A:FF:18:25:18:AA:44:FE:C1:A0:CE:5C:B6:4C:8A;C = CN	O = UniTrust, CN = UCA Global G2 Root

Fingerprint	Subject
63:CF:B6:C1:27:2B:56:E4:88:8E:1C:23:9A:B6:2E:81:47:24:C3:C7;C = CN	O = "TrustAsia Technologies, Inc.", CN = TrustAsia Global Root CA G3
87:82:C6:C3:04:35:3B:CF:D2:96:92:D2:59:3E:7D:44:D9:34:FF:11;C = US	O = SecureTrust Corporation, CN = SecureTrust CA
EC:93:DE:08:3C:93:D9:33:A9:86:B3:D5:CD:E2:5A:CB:2F:EE:CF:8E;C = HU	L = Budapest, O = NetLock Kft., OU = Tan\C3\BAs\C3\ADtv\C3\A1nykiad\C3\B3k (Certification Services), CN = NetLock Platina (Class Platinum) F\C5\91tan\C3\BAs\C3\ADtv\C3\A1ny
ED:E5:71:80:2B:C8:92:B9:5B:83:3C:D2:32:68:3F:09:CD:A0:1E:46;C = US	O = Google Trust Services LLC, CN = GTS Root R3
39:B4:6C:D5:FE:80:06:EB:E2:2F:4A:BB:08:33:A0:AF:DB:B9:DD:84;C = BE	O = GlobalSign nv-sa, CN = GlobalSign Root E46
8D:A7:F9:65:EC:5E:FC:37:91:0F:1C:6E:59:FD:C1:CC:6A:6E:DE:16;C = US	O = Amazon, CN = Amazon Root CA 1
D8:EB:6B:41:51:92:59:E0:F3:E7:85:00:C0:3D:B6:88:97:C9:EE:FC;C = NL	O = Staat der Nederlanden, CN = Staat der Nederlanden Root CA - G3
FA:B7:EE:36:97:26:62:FB:2D:B0:2A:F6:BF:03:FD:E8:7C:4B:2F:9B;C = RO	O = certSIGN, OU = certSIGN ROOT CA
77:D3:03:67:B5:E0:0C:15:F6:0C:38:61:DF:7C:E1:3B:92:46:4D:47;C = US	O = Google Trust Services LLC, CN = GTS Root R4
2D:E1:6A:56:77:BA:CA:39:E1:D6:8C:30:DC:B1:4A:BE:22:A6:17:9B;C = ES	ST = MADRID, L = MADRID, OU = see current address at www.camerfirma.com/address , OU = CHAMBERS OF COMMERCE ROOT - 2016, serialNumber = A82743287, organizationIdentifier = VATES-A82743287, O = AC CAMERFIRMA S.A., CN = CHAMBERS OF COMMERCE ROOT - 2016
AD:98:F9:F3:E4:7D:75:3B:65:D4:82:B3:A4:52:17:BB:6E:F5:E4:38;C = GB	O = Sectigo Limited, CN = Sectigo Public Server Authentication Root R46
A0:50:EE:0F:28:71:F4:27:B2:12:6D:6F:50:96:25:BA:CC:86:42:AF;C = US	O = Certainly, CN = Certainly Root R1
02:2D:05:82:FA:88:CE:14:0C:06:79:DE:7F:14:10:E9:45:D7:A5:6D;C = GR	O = Hellenic Academic and Research Institutions CA, CN = HARICA TLS RSA Root CA 2021
A7:88:49:DC:5D:7C:75:8C:8C:DE:39:98:56:B3:AA:D0:B2:A5:71:35;C = US	O = "DigiCert, Inc.", CN = DigiCert TLS RSA4096 Root G5
E1:C4:B3:D3:CD:48:E0:7C:53:F6:F9:BA:9A:B9:4F:92:42:41:C2:63;OU = Arcturus	O = Cisco, CN = Internal Customer Root CA
EA:B0:E2:52:1B:89:93:4C:11:68:F2:D8:9A:AC:22:4C:A3:8A:57:AE;C = US	O = CommScope, CN = CommScope Public Trust RSA Root-02
7A:22:1E:3D:DE:1B:06:AC:9E:C8:47:70:16:8E:3C:E5:F7:6B:06:F4;C = JP	O = "Cybertrust Japan Co., Ltd.", CN = SecureSign Root CA12
D0:67:C1:13:51:01:0C:AA:D0:C7:6A:65:37:31:16:26:4F:53:71:A2;C = AT	O = e-commerce monitoring GmbH, CN = GLOBALTRUST 2020
07:86:C0:D8:DD:8E:C0:80:98:06:98:D0:58:7A:EF:DE:A6:CC:A2:5D;C = US	O = CommScope, CN = CommScope Public Trust ECC Root-01
E7:2E:F1:DF:FC:B2:09:28:CF:5D:D4:D5:67:37:B1:51:CB:86:4F:01;C = US	OU = emSign PKI, O = eMudhra Inc, CN = emSign Root CA - C1
9C:B1:E6:FB:C2:1A:AF:3D:68:97:3C:B5:16:E9:32:C4:4C:B9:D5:60;C = US	O = VISA, OU = Visa International Service Association, CN = Visa Public ECC Root CA
91:21:98:EE:F2:3D:CA:C4:09:39:31:2F:EE:97:DD:56:0B:AE:49:B1;C = US	O = Verizon Business, OU = OmniRoot, CN = Verizon Global Root CA

Fingerprint	Subject
11:39:A4:9E:84:84:AA:F2:D9:0D:98:5E:C4:74:1A:65:DD:5D:94:E2;C = ES	ST = MADRID, L = MADRID, OU = see current address at www.camerfirma.com/address, OU = GLOBAL CHAMBERSIGN ROOT - 2016, serialNumber = A82743287, organizationIdentifier = VATES-A82743287, O = AC CAMERFIRMA S.A., CN = GLOBAL CHAMBERSIGN ROOT - 2016
BC:B0:C1:9D:E9:98:92:70:19:38:57:E9:8D:A7:B4:5D:6E:EE:01:48;C = GR	O = Hellenic Academic and Research Institutions CA, CN = HARICA TLS ECC Root CA 2021
09:3C:61:F3:8B:8B:DC:7D:55:DF:75:38:02:05:00:E1:25:F5:C8:36;C = BM	O = QuoVadis Limited, CN = QuoVadis Root CA 2 G3
1B:8E:EA:57:96:29:1A:C9:39:EA:B8:0A:81:1A:73:73:C0:93:79:67;C = BM	O = QuoVadis Limited, CN = QuoVadis Root CA 1 G3
F5:17:A2:4F:9A:48:C6:C9:F8:A2:00:26:9F:DC:0F:48:2C:AB:30:89;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Assured ID Root G3
C8:83:44:C0:18:AE:9F:CC:F1:87:B7:8F:22:D1:C5:D7:45:84:BA:E5;C = PL	O = Asseco Data Systems S.A., OU = Certum Certification Authority, CN = Certum Trusted Root CA
C3:19:7C:39:24:E6:54:AF:1B:C4:AB:20:95:7A:E2:C3:0E:13:02:6A;C = US	ST = Texas, L = Houston, O = SSL Corporation, CN = SSL.com Root Certification Authority ECC
D2:73:96:2A:2A:5E:39:9F:73:3F:E1:C7:1E:64:3F:03:38:34:FC:4D;C = US	O = Google Trust Services LLC, CN = GTS Root R2
83:E5:E5:DE:32:54:14:97:0B:26:30:11:08:44:56:E5:FA:A1:3F:FA;CN = I.CA TLS Root CA/RSA 05/2022	O = "Prvn\C3\AD certifika\C4\8Dn\C3\AD autorita, a.s.", organizationIdentifier = NTRCZ-26439395, C = CZ
9D:70:BB:01:A5:A4:A0:18:11:2E:F7:1C:01:B9:32:C5:34:E7:88:A8;C = FR	O = Certinomis, OU = 0002 433998903, CN = Certinomis - Root CA
87:B8:E6:D3:8F:1A:39:CD:97:F0:4A:9E:17:4B:3C:9E:E7:EE:11:15;C = US	O = "DigiCert, Inc.", CN = DigiCert RSA4096 Root G5
E5:8C:1C:C4:91:3B:38:63:4B:E9:10:6E:E3:AD:8E:6B:9D:D9:81:4A;C = US	O = Google Trust Services LLC, CN = GTS Root R1
8A:C7:AD:8F:73:AC:4E:C1:B5:75:4D:A5:40:F4:FC:CF:7C:B5:8E:8C;C = IN	OU = emSign PKI, O = eMudhra Technologies Limited, CN = emSign Root CA - G1
DF:3C:24:F9:BF:D6:66:76:1B:26:80:73:FE:06:D1:CC:8D:4F:82:A4;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G2
A9:CA:FE:9D:FD:67:F4:14:5A:D3:97:D0:E2:F3:05:0D:19:8D:E6:EE;C = AU	O = GOV, OU = DoD, OU = PKI, OU = CAs, CN = Australian Defence Public Root CA
5A:4D:0E:8B:5F:DC:FD:F6:4E:72:99:A3:6C:06:0D:B2:22:CA:78:E4;C = US	O = VISA, OU = Visa International Service Association, CN = Visa Information Delivery Root CA
B4:90:82:DD:45:0C:BE:8B:5B:B1:66:D3:E2:A4:08:26:CD:ED:42:CF;C = US	ST = Illinois, L = Chicago, O = "Trustwave Holdings, Inc.", CN = Trustwave Global ECC P256 Certification Authority
4B:6B:D2:D3:88:4E:46:C8:0C:E2:B9:62:BC:59:8C:D9:D5:D8:40:13;C = US	ST = MN, L = Minneapolis, O = Open Access Technology International Inc, CN = OATI WebCARES Root CA
31:F9:FC:8B:A3:80:59:86:B7:21:EA:72:95:C6:5B:3A:44:53:42:74;C = US	ST = Washington, L = Redmond, O = Microsoft Corporation, CN = Microsoft ECC TS Root Certificate Authority 2018

Fingerprint	Subject
59:0D:2D:7D:88:4F:40:2E:61:7E:A5:62:32:17:65:CF:17:D8:94:E9;C = DE	O = T-Systems Enterprise Services GmbH, OU = T-Systems Trust Center, CN = T-TeleSec GlobalRoot Class 2
EC:B6:90:69:61:3B:39:31:E9:75:C0:6A:1B:18:EA:C6:37:3E:9E:E6;OU = Pollux	O = Cisco, CN = IT Application Root CA
69:69:56:2E:40:80:F4:24:A1:E7:19:9F:14:BA:F3:EE:58:AB:6A:BB;OU = GlobalSign ECC Root CA - R4	O = GlobalSign, CN = GlobalSign
D8:A6:33:2C:E0:03:6F:B1:85:F6:63:4F:7D:6A:06:65:26:32:28:27;C = US	O = AffirmTrust, CN = AffirmTrust Premium
55:A6:72:3E:CB:F2:EC:CD:C3:23:74:70:19:9D:2A:BE:11:E3:81:D1;C = DE	O = T-Systems Enterprise Services GmbH, OU = T-Systems Trust Center, CN = T-TeleSec GlobalRoot Class 3
2F:8F:36:4F:E1:58:97:44:21:59:87:A5:2A:9A:D0:69:95:26:7F:B5;C = US	ST = Illinois, L = Chicago, O = "Trustwave Holdings, Inc.", CN = Trustwave Global Certification Authority
DD:FB:16:CD:49:31:C9:73:A2:03:7D:3F:C8:3A:4D:7D:77:5D:05:E4;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Trusted Root G4
59:22:A1:E1:5A:EA:16:35:21:F8:98:39:6A:46:46:B0:44:1B:0F:A9;C = CH	O = WiSeKey, OU = Copyright (c) 2005, OU = OISTE Foundation Endorsed, CN = OISTE WiSeKey Global Root GA CA
B8:01:86:D1:EB:9C:86:A5:41:04:CF:30:54:F3:4C:52:B7:E5:58:C6;C = US	OU = www.xrampsecurity.com, O = XRamp Security Services Inc, CN = XRamp Global Certification Authority
F6:10:84:07:D6:F8:BB:67:98:0C:C2:E2:44:C2:EB:AE:1C:EF:63:BE;C = US	O = Amazon, CN = Amazon Root CA 4
6F:62:DE:B8:6C:85:58:5A:E4:2E:47:8D:B4:D7:6D:B3:67:58:5A:E6;C = ES	O = Agencia Notarial de Certificacion S.L.U. - CIF B83395988, CN = ANCERT Certificados Notariales V2
AC:1E:DE:2E:1C:97:0F:ED:3E:E8:5F:8C:3A:CF:E2:BA:C0:4A:13:76;O = Cisco	CN = Cisco Root CA 2099
9B:09:59:89:81:54:08:1B:F6:A9:0E:9B:9E:58:A4:69:0C:9B:A1:04;C = CZ	O = "Prvn\C3\AD certifika\C4\8Dn\C3\AD autorita, a.s.", CN = I.CA Root CA/RSA, serialNumber = NTRCZ-26439395
80:94:64:0E:B5:A7:A1:CA:11:9C:1F:DD:D5:9F:81:02:63:A7:FB:D1;OU = GlobalSign Root CA - R6	O = GlobalSign, CN = GlobalSign
43:13:BB:96:F1:D5:86:9B:C1:4E:6A:92:F6:CF:F6:34:69:87:82:37;O = TeliaSonera	CN = TeliaSonera Root CA v1
DD:50:C0:F7:79:B3:64:2E:74:A2:B8:9D:9F:D3:40:DD:BB:F0:F2:4F;C = JP	O = "Cybertrust Japan Co., Ltd.", CN = SecureSign Root CA14
B6:AF:43:C2:9B:81:53:7D:F6:EF:6B:C3:1F:1F:60:15:0C:EE:48:66;C = US	OU = emSign PKI, O = eMudhra Inc, CN = emSign ECC Root CA - C3
1F:5B:98:F0:E3:B5:F7:74:3C:ED:E6:B0:36:7D:32:CD:F4:09:41:67;C = DE	O = D-Trust GmbH, CN = D-TRUST BR Root CA 1 2020
29:36:21:02:8B:20:ED:02:F5:66:C5:32:D1:D6:ED:90:9F:45:00:2F;C = US	O = AffirmTrust, CN = AffirmTrust Networking
E2:B8:29:4B:55:84:AB:6B:58:C2:90:46:6C:AC:3F:B8:39:8F:84:83;C = CN	O = China Financial Certification Authority, CN = CFCA EV ROOT

Fingerprint	Subject
BD:B1:B9:3C:D5:97:8D:45:C6:26:14:55:F8:DB:95:C7:5A:D1:53:AF;C = US	O = Internet Security Research Group, CN = ISRG Root X2
19:3C:2A:76:F8:CA:DD:84:F3:5B:F5:2E:E7:AA:50:66:57:91:7A:38;C = US	O = "Entrust, Inc.", CN = Entrust 4K TLS Root CA - 2022
D3:DD:48:3E:2B:BF:4C:05:E8:AF:10:F5:FA:76:26:CF:D3:DC:30:92;C = PL	O = Unizeto Technologies S.A., OU = Certum Certification Authority, CN = Certum Trusted Network CA 2
84:1A:69:FB:F5:CD:1A:25:34:13:3D:E3:F8:FC:B8:99:D0:C9:14:B7;C = CN	O = "iTrusChina Co.,Ltd.", CN = vTrus Root CA
B5:61:EB:EA:A4:DE:E4:25:4B:69:1A:98:A5:57:47:C2:34:C7:D9:71;C = SK	L = Bratislava, O = Disig a.s., CN = CA Disig Root R2
8F:6B:F2:A9:27:4A:DA:14:A0:C4:F4:8E:61:27:F9:C0:1E:78:5D:D1;C = KR	O = NAVER BUSINESS PLATFORM Corp., CN = NAVER Global Root Certification Authority
42:4A:AE:6D:0C:8C:76:24:81:7C:DB:9C:CB:51:0D:ED:62:32:19:1D;C = US	O = "Entrust, Inc.", CN = Entrust P384 TLS Root CA - 2022
62:52:DC:40:F7:11:43:A2:2F:DE:9E:F7:34:8E:06:42:51:B1:81:18;C = PL	O = Unizeto Sp. z o.o., CN = Certum CA
EC:8A:39:6C:40:F0:2E:BC:42:75:D4:9F:AB:1C:1A:5B:67:BE:D2:9A;C = GB	O = Sectigo Limited, CN = Sectigo Public Server Authentication Root E46
D4:96:59:2B:30:57:07:38:6C:C5:F3:CD:B2:59:AE:66:D7:66:1F:CA;C = ES	serialNumber = Q2863006I, O = CONSEJO GENERAL DE LA ABOGACIA, CN = ACA ROOT
E7:F3:A3:C8:CF:6F:C3:04:2E:6D:0E:67:32:C5:9E:68:95:0D:5E:D2;C = US	ST = Illinois, L = Chicago, O = "Trustwave Holdings, Inc.", CN = Trustwave Global ECC P384 Certification Authority
5B:6E:68:D0:CC:15:B6:A0:5F:1E:C1:5F:AE:02:FC:6B:2F:5D:6F:74;serialNumber = G63287510	C = ES, O = ANF Autoridad de Certificacion, OU = ANF CA Raiz, CN = ANF Secure Server Root CA
89:DF:74:FE:5C:F4:0F:4A:80:F9:E3:37:7D:54:DA:91:E1:01:31:8E;C = HU	L = Budapest, O = Microsec Ltd., CN = Microsec e-Szigno Root CA 2009, emailAddress = info@e-szigno.hu
CF:E9:70:84:0F:E0:73:0F:9D:F6:0C:7F:2C:4B:EE:20:46:34:9C:BB;C = TN	O = Agence Nationale de Certification Electronique, CN = TunTrust Root CA
B3:1E:B1:B7:40:E3:6C:84:02:DA:DC:37:D4:4D:F5:D4:67:49:52:F9;C = US	O = "Entrust, Inc.", OU = www.entrust.net/CPS is incorporated by reference, OU = "(c) 2006 Entrust, Inc.", CN = Entrust Root Certification Authority
F4:27:86:EB:6E:B8:6D:88:31:67:02:FB:BA:66:A4:53:00:AA:7A:A6;C = CN	O = BEIJING CERTIFICATE AUTHORITY, CN = BJCA Global Root CA2
20:D8:06:40:DF:9B:25:F5:12:25:3A:11:EA:F7:59:8A:EB:14:B5:47;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
0F:F9:40:76:18:D3:D7:6A:4B:98:F0:A8:35:9E:0C:FD:27:AC:CC:ED;C = CH	O = WiSeKey, OU = OISTE Foundation Endorsed, CN = OISTE WiSeKey Global Root GB CA
36:79:CA:35:66:87:72:30:4D:30:A5:FB:87:3B:0F:A7:7B:B7:0D:54;C = US	O = "VeriSign, Inc.", OU = VeriSign Trust Network, OU = "(c) 2008 VeriSign, Inc. - For authorized use only", CN = VeriSign Universal Root Certification Authority

Fingerprint	Subject
55:9B:BA:7B:0F:FE:80:D6:D3:82:9B:1F:D0:7A:A4:D3:22:19:47:90;CN = CAEDICOM Root	O = EDICOM, C = ES
18:52:3B:0D:06:37:E4:D6:3A:DF:23:E4:98:FB:5B:16:FB:86:74:48;CN = Atos TrustedRoot Root CA RSA TLS 2021	O = Atos, C = DE
73:A5:E6:4A:3B:FF:83:16:FF:0E:DC:CC:61:8A:90:6E:4E:AE:4D:74;C = US	O = Microsoft Corporation, CN = Microsoft RSA Root Certificate Authority 2017
78:6A:74:AC:76:AB:14:7F:9C:6A:30:50:BA:9E:A8:7E:FE:9A:CE:3C;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
57:1A:80:28:12:9A:5F:44:74:D9:62:83:E2:A9:50:E1:95:43:3D:2B;OU = Corvus	O = Cisco, CN = Internal Private Root
D9:9B:10:42:98:59:47:63:F0:B9:A9:27:B7:92:69:CB:47:DD:15:8B;C = TW	O = "Chunghwa Telecom Co., Ltd.", CN = ePKI Root Certification Authority - G2
53:A2:B0:4B:CA:6B:D6:45:E6:39:8A:8E:C4:0D:D2:BF:77:C3:A2:90;C = BE	O = GlobalSign nv-sa, CN = GlobalSign Root R46
AE:3B:31:BF:8F:D8:91:07:9C:F1:DF:34:CB:CE:6E:70:D3:7F:B5:B0;CN = ComSign Global Root CA	O = ComSign Ltd., C = IL
A8:98:5D:3A:65:E5:E5:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36;C = US	O = DigiCert Inc, OU = www.digicert.com , CN = DigiCert Global Root CA
DF:71:7E:AA:4A:D9:4E:C9:55:84:99:60:2D:48:DE:5F:BC:F0:3A:25;C = US	O = IdenTrust, CN = IdenTrust Commercial Root CA 1
23:D7:31:FE:DC:5C:8B:B9:7D:E6:DC:8E:13:B4:11:BD:4F:24:00:4F;C = SI	O = Halcom d.d., organizationIdentifier = VATSI-43353126, CN = Halcom Root Certificate Authority
CB:BA:83:C8:C1:5A:5D:F1:F9:73:6F:CA:D7:EF:28:13:06:4A:07:7D;C = JP	O = "Cybertrust Japan Co., Ltd.", CN = SecureSign Root CA15
62:02:BF:16:9A:F2:7F:A6:7E:D0:CE:C6:6B:78:2B:83:22:61:26:E9;C = HR	O = Financijska agencija, CN = Fina Root CA
2C:8A:FF:CE:96:64:30:BA:04:C0:4F:81:DD:4B:49:C7:1B:5B:81:A0;C = US	O = Cisco Systems, CN = Cisco RXC-R2
46:AF:7A:31:B5:99:46:0D:46:9D:60:41:14:5B:13:65:1D:F9:17:0A;C = PT	O = MULTICERT - Serviç�os de Certificaç�o Electr�nica S.A., CN = MULTICERT Root Certification Authority 01
AF:E5:D2:44:A8:D1:19:42:30:FF:47:9F:E2:F8:97:BB:CD:7A:8C:B4;C = GB	ST = Greater Manchester, L = Salford, O = COMODO CA Limited, CN = COMODO RSA Certification Authority
8C:F4:27:FD:79:0C:3A:D1:66:06:8D:E8:1E:57:EF:BB:93:22:72:D4;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
45:AD:6B:B4:99:01:1B:B4:E8:4E:84:31:6A:81:C2:7D:89:EE:5C:E7;O = Cisco	CN = Cisco Root CA M1
D8:C5:38:8A:B7:30:1B:1B:6E:D4:7A:E6:45:25:3A:6F:9F:1A:27:61;C = CH	O = SwissSign AG, CN = SwissSign Gold CA - G2
F9:B5:B6:32:45:5F:9C:BE:EC:57:5F:80:DC:E9:6E:2C:C7:B2:78:B7;C = US	O = AffirmTrust, CN = AffirmTrust Commercial
6D:0A:5F:F7:B4:23:06:B4:85:B3:B7:97:64:FC:AC:75:F5:33:F2:93;C = US	O = CommScope, CN = CommScope Public Trust RSA Root-01

Fingerprint	Subject
06:F1:AA:33:0B:92:7B:75:3A:40:E6:8C:DF:22:E3:4B:CB:EF:33:52;C = US	ST = Washington, L = Redmond, O = Microsoft Corporation, CN = Microsoft ECC Product Root Certificate Authority 2018
44:9C:05:26:FD:99:F9:35:1F:81:2D:C0:05:13:21:38:5C:BC:39:04;O = Cisco	CN = TRS Bundle Root CA
5A:8C:EF:45:D7:A6:98:59:76:7A:8C:8B:44:96:B5:78:CF:47:4B:1A;C = US	O = Amazon, CN = Amazon Root CA 2
D1:EE:B1:E8:C0:90:20:BA:B8:5D:3D:E2:7F:78:EE:33:A0:6C:AE:DB;C = US	O = "DigiCert, Inc.", CN = DigiCert ECC P384 Root G5
1E:6C:44:DC:64:73:D4:81:9B:E8:9F:B2:37:AF:48:83:FC:37:69:87;C = US	O = "Entrust, Inc.", CN = Entrust P384 EV TLS Root CA - 2022
C0:F8:96:C5:A9:3B:01:06:21:07:DA:18:42:48:BC:E9:9D:88:D5:EC;C = DE	O = Deutsche Telekom Security GmbH, CN = Telekom Security TLS ECC Root 2020
E2:52:FA:95:3F:ED:DB:24:60:BD:6E:28:F3:9C:CC:CF:5E:B3:3F:DE;C = PL	O = Krajowa Izba Rozliczeniowa S.A., CN = SZAFIR ROOT CA2
F4:35:F8:5F:01:08:DA:68:4E:7B:FD:51:7C:90:C6:27:BB:9A:6C:F5;C = FI	O = Vaestorekisterikeskus CA, OU = Certification Authority Services, OU = Varmennepalvelut, CN = VRK Gov. Root CA - G2
A3:A1:B0:6F:24:61:23:4A:E3:36:A5:C2:37:FC:A6:FF:DD:F0:D7:3A;C = CN	O = UniTrust, CN = UCA Extended Validation Root
1B:18:15:AF:92:5D:14:0E:FC:5A:F9:A1:AA:55:EE:BB:4F:FB:C5:61;C = AT	O = A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH, OU = A-Trust-Root-07, CN = A-Trust-Root-07
A1:58:51:87:15:65:86:CE:F9:C4:54:E2:2A:B1:5C:58:74:56:07:B4;C = CH	O = The Federal Authorities of the Swiss Confederation, OU = Services, OU = Certification Authorities, CN = Swiss Government Root CA I
0D:44:DD:8C:3C:8C:1A:1A:58:75:64:81:E9:0F:2E:2A:FF:B3:D2:6E;C = US	O = Amazon, CN = Amazon Root CA 3
DE:99:0C:ED:99:E0:43:1F:60:ED:C3:93:7E:7C:D5:BF:0E:D9:E5:FA;O = Cisco Systems	CN = Cisco Root CA 2048
9C:BB:48:53:F6:A4:F6:D3:52:A4:E8:32:52:55:60:13:F5:AD:AF:65;C = TW	O = TAIWAN-CA, OU = Root CA, CN = TWCA Global Root CA
65:F9:90:1C:54:9C:9B:EC:6B:F4:22:B7:FD:8E:E3:82:F6:26:18:6B;C = KR	O = Ministry of the Interior and Safety, CN = MOIS SSL Root CA
3B:C4:9F:48:F8:F3:73:A0:9C:1E:BD:F8:5B:B1:C3:65:C7:D8:11:B3;C = JP	O = "Japan Certification Services, Inc.", CN = SecureSign RootCA11
AE:C5:FB:3F:C8:E1:BF:C4:E5:4F:03:07:5A:9A:E8:00:B7:F7:B6:FA;C = ES	CN = Autoridad de Certificacion Firmaprofesional CIF A62634068
8A:2F:AF:57:53:B1:B0:E6:A1:04:EC:5B:6A:69:71:6D:F6:1C:E2:84;C = TR	L = Ankara, O = E-Tugra EBG A.S., OU = E-Tugra Trust Center, CN = E-Tugra Global Root CA ECC v3
B1:2E:13:63:45:86:A4:6F:1A:B2:60:68:37:58:2D:C4:AC:FD:94:97;C = FR	O = Dhimyotis, CN = Certigna
1F:49:14:F7:D8:74:95:1D:DD:AE:02:C0:BE:FD:3A:2D:82:75:51:85;C = BM	O = QuoVadis Limited, CN = QuoVadis Root CA 3
31:43:64:9B:EC:CE:27:EC:ED:3A:3F:0B:8F:0D:E4:E8:91:DD:EE:CA;C = TR	L = Gebze - Kocaeli, O = Türkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK, OU = Kamu Sertifikasyon Merkezi - Kamu SM, CN = TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1
9B:AA:E5:9F:56:EE:21:CB:43:5A:BE:25:93:DF:A7:F0:40:D1:1D:CB;C = CH	O = SwissSign AG, CN = SwissSign Silver CA - G2

Fingerprint	Subject
BA:29:41:60:77:98:3F:F4:F3:EF:F2:31:05:3B:2E:EA:6D:4D:45:FD;C = US	O = IdenTrust, CN = IdenTrust Public Sector Root CA 1
D4:DE:20:D0:5E:66:FC:53:FE:1A:50:88:2C:78:DB:28:52:CA:E4:74;C = IE	O = Baltimore, OU = CyberTrust, CN = Baltimore CyberTrust Root
2E:03:93:1C:D1:9C:3F:F5:98:5F:B8:7A:AD:C1:53:EB:5D:BD:F1:E3;C = CA	O = AffirmTrust, CN = AffirmTrust 4K TLS Root CA - 2022
96:C9:1B:0B:95:B4:10:98:42:FA:D0:D8:22:79:FE:60:FA:B9:16:83;C = DE	O = D-Trust GmbH, CN = D-TRUST Root Class 3 CA 2 EV 2009
3B:1E:FD:3A:66:EA:28:B1:66:97:39:47:03:A7:2C:A3:40:A0:5B:D5;C = US	ST = Washington, L = Redmond, O = Microsoft Corporation, CN = Microsoft Root Certificate Authority 2010
81:34:0A:BE:4C:CD:CE:CC:E7:7D:CC:8A:D4:57:E2:45:A0:77:5D:CE;C = CH	O = SwissSign AG, CN = SwissSign RSA TLS Root CA 2022 - 1
F3:73:B3:87:06:5A:28:84:8A:F2:F3:4A:CE:19:2B:DD:C7:8E:9C:AC;C = IT	L = Milan, O = Actalis S.p.A./03358520967, CN = Actalis Authentication Root CA
06:08:3F:59:3F:15:A1:04:A0:69:A4:6B:A9:03:D0:06:B7:97:09:91;C = HU	L = Budapest, O = NetLock Kft., OU = Tan\C3\BAs\C3\ADtv\C3\A1nykiad\C3\B3k (Certification Services), CN = NetLock Arany (Class Gold) FC5\91tan\C3\BAs\C3\ADtv\C3\A1ny
5F:B7:EE:06:33:E2:59:DB:AD:0C:4C:9A:E6:D3:8F:1A:61:C7:DC:25;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert High Assurance EV Root CA
9E:BC:75:10:42:B3:02:F3:81:F4:F7:30:62:D4:8F:C3:A7:51:B2:DD;CN = Atos TrustedRoot Root CA ECC TLS 2021	O = Atos, C = DE
27:96:BA:E6:3F:18:01:E2:77:26:1B:A0:D7:77:70:02:8F:20:EE:E4;C = US	O = "The Go Daddy Group, Inc.", OU = Go Daddy Class 2 Certification Authority
AA:40:D2:57:9B:A8:24:24:CD:27:71:9B:1D:6B:1F:35:71:73:80:99;C = CZ	organizationIdentifier = NTRCZ-47114983, O = "\C4\8Cesk\C3\A1 po\C5\A1ta, s.p.", CN = PostSignum Root QCA 4
58:E8:AB:B0:36:15:33:FB:80:F7:9B:1B:6D:29:D3:FF:8D:5F:00:F0;C = DE	O = D-Trust GmbH, CN = D-TRUST Root Class 3 CA 2 2009

CA trust list for Multiplatform Phones

Fingerprint	Subject
62:FF:D9:9E:C0:65:0D:03:CE:75:93:D2:ED:3F:2D:32:C9:E3:E5:4A;C = ES	O = FNMT-RCM, OU = Ceres, organizationIdentifier = VATES-Q2826004J, CN = AC RAIZ FNMT-RCM SERVIDORES SEGUROS
4A:BD:EE:EC:95:0D:35:9C:89:AE:C7:52:A1:2C:5B:29:F6:D6:AA:0C;C = EU	L = Madrid (see current address at www.camerfirma.com/address), serialNumber = A82743287, O = AC Camerfirma S.A., CN = Global Chambersign Root - 2008

Fingerprint	Subject
6C:15:5E:D7:27:1A:90:4A:0D:C0:40:F0:C8:57:FF:53:BF:6D:B2:90;C = BR	O = ICP-Brasil, OU = Instituto Nacional de Tecnologia da Informacao - ITI, CN = Autoridade Certificadora Raiz Brasileira v10
DA:FA:F7:FA:66:84:EC:06:8F:14:50:BD:C7:C2:81:A5:BC:A9:64:57;C = NO	O = Buypass AS-983163327, CN = Buypass Class 3 Root CA
58:A2:D0:EC:20:52:81:5B:C1:F3:F8:64:02:24:4E:C2:8E:02:4B:02;C = HK	ST = Hong Kong, L = Hong Kong, O = Hongkong Post, CN = Hongkong Post Root CA 3
2B:8F:1B:57:33:0D:BB:A2:D0:7A:6C:51:F7:0E:E9:0D:DA:B9:AD:8E;C = US	ST = New Jersey, L = Jersey City, O = The USERTRUST Network, CN = USERTrust RSA Certification Authority
46:5B:26:BE:BE:71:06:DD:85:44:C1:13:9D:9F:A2:57:00:C1:D7:BD;C = AT	ST = Wien, L = Wien, O = e-commerce monitoring GmbH, OU = GLOBALTRUST Certification Service, CN = GLOBALTRUST 2015
01:0C:06:95:A6:98:19:14:FF:BF:5F:C6:B0:B6:95:EA:29:E9:12:A6;C = GR	L = Athens, O = Hellenic Academic and Research Institutions Cert. Authority, CN = Hellenic Academic and Research Institutions RootCA 2015
9A:44:49:76:32:DB:DE:FA:D0:BC:FB:5A:7B:17:BD:9E:56:09:24:94;C = US	O = Google Trust Services LLC, CN = GTS Root R2
7E:B1:A0:42:9B:E5:F4:28:AC:2B:93:97:1D:7C:84:48:A5:36:07:0C;C = ES	O = Agencia Notarial de Certificacion S.L.U. - CIF B83395988, CN = ANCERT Certificados CGN V2
D1:CB:CA:5D:B2:D5:2A:7F:69:3B:67:4D:E5:F0:5A:1D:0C:95:7D:F0;C = US	ST = New Jersey, L = Jersey City, O = The USERTRUST Network, CN = USERTrust ECC Certification Authority
EA:DB:0A:B9:DC:79:38:02:14:35:FE:D1:3E:48:84:06:A1:AA:29:2A;C = US	O = "Entrust, Inc.", CN = Entrust 4K EV TLS Root CA - 2022
EC:2C:83:40:72:AF:26:95:10:FF:0E:F2:03:EE:31:70:F6:78:9D:CA;C = US	O = SSL Corporation, CN = SSL.com TLS RSA Root CA 2022
07:E0:32:E0:20:B7:2C:3F:19:2F:06:28:A2:59:3A:19:A7:0F:06:9E;C = PL	O = Unizeto Technologies S.A., OU = Certum Certification Authority, CN = Certum Trusted Network CA
2B:B1:F5:3E:55:0C:1D:C5:F1:D4:E6:B7:6A:46:4B:55:06:02:AC:21;CN = Atos TrustedRoot 2011	O = Atos, C = DE
EA:F8:3D:84:27:89:75:76:CD:D1:B3:09:57:77:3E:5F:74:B9:B7:CC;C = FI	O = Digi- ja vaestotietovirasto CA, OU = Certification Authority Services, OU = Varmennepalvelut, CN = DVV Gov. Root CA - G3 RSA
83:51:50:9B:7D:F8:CF:E8:7B:AE:62:AE:B9:B0:3A:52:F4:E6:2C:79;C = SA	O = National Center for Digital Certification, OU = Saudi National Root CA
CF:9E:87:6D:D3:EB:FC:42:26:97:A3:B5:A3:7A:A0:76:A9:06:23:48;C = TW	O = TAIWAN-CA, OU = Root CA, CN = TWCA Root Certification Authority
30:D4:24:6F:07:FF:DB:91:89:8A:0B:E9:49:66:11:EB:8C:5E:46:E5;C = US	O = Google Trust Services LLC, CN = GTS Root R3
9F:F1:71:8D:92:D5:9A:F3:7D:74:97:B4:BC:6F:84:68:0B:BA:B6:66;C = GR	L = Athens, O = Hellenic Academic and Research Institutions Cert. Authority, CN = Hellenic Academic and Research Institutions ECC RootCA 2015
14:88:4E:86:26:37:B0:26:AF:59:62:5C:40:77:EC:35:29:BA:96:01;C = US	O = "Entrust, Inc.", OU = See www.entrust.net/legal-terms , OU = "(c) 2015 Entrust, Inc. - for authorized use only", CN = Entrust Root Certification Authority - G4

Fingerprint	Subject
67:65:0D:F1:7E:8E:7E:5B:82:40:A4:F4:56:4B:CF:E2:3D:69:C6:F0;C = TW	O = "Chunghwa Telecom Co., Ltd.", OU = ePKI Root Certification Authority
54:D3:AC:B3:BD:57:56:F6:85:9D:CE:E5:C3:21:E2:D4:AD:83:D0:93;C = DE	O = Deutsche Telekom Security GmbH, CN = Telekom Security TLS RSA Root 2023
28:90:3A:63:5B:52:80:FA:E6:77:4C:0B:6D:A7:D6:BA:A6:4A:F2:E8;C = ES	O = Agència Catalana de Certificació (NIF Q-0801176-I), OU = Serveis Públics de Certificació, OU = Vegeu https://www.catcert.net/verarrel (c)03, OU = Jerarquia Entitats de Certificació Catalanes, CN = EC-ACC
92:5A:8F:8D:2C:6D:04:E0:66:5F:59:6A:FF:22:D8:63:E8:25:6F:3F;C = US	ST = Arizona, L = Scottsdale, O = "Starfield Technologies, Inc.", CN = Starfield Services Root Certificate Authority - G2
B7:AB:33:08:D1:EA:44:77:BA:14:80:12:5A:6F:BD:A9:36:49:0C:BB;C = US	ST = Texas, L = Houston, O = SSL Corporation, CN = SSL.com Root Certification Authority RSA
D6:9B:56:11:48:F0:1C:77:C5:45:78:C1:09:26:DF:5B:85:69:76:AD;OU = GlobalSign Root CA - R3	O = GlobalSign, CN = GlobalSign
74:3A:F0:52:9B:D0:32:A0:F4:4A:83:CD:D4:BA:A9:7B:7C:2E:C4:9A;C = US	ST = Texas, L = Houston, O = SSL Corporation, CN = SSL.com EV Root Certification Authority RSA R2
1F:24:C6:30:CD:A4:18:EF:20:69:FF:AD:4F:DD:5F:46:3A:1B:69:AA;OU = GlobalSign ECC Root CA - R5	O = GlobalSign, CN = GlobalSign
C3:03:C8:22:74:92:E5:61:A2:9C:5F:79:91:2B:1E:44:13:91:30:3A;C = JP	O = "SECOM Trust Systems CO.,LTD.", CN = Security Communication RootCA3
EE:86:93:87:FF:FD:83:49:AB:5A:D1:43:22:58:87:89:A4:57:B0:12;C = GB	ST = Greater Manchester, L = Salford, O = COMODO CA Limited, CN = COMODO Certification Authority
4C:DD:51:A3:D1:F5:20:32:14:B0:C6:C5:32:23:03:91:C7:46:42:6D;C = US	ST = Texas, L = Houston, O = SSL Corporation, CN = SSL.com EV Root Certification Authority ECC
CA:BD:2A:79:A1:07:6A:31:F2:1D:25:36:35:CB:03:9D:43:29:A5:E8;C = US	O = Internet Security Research Group, CN = ISRG Root X1
47:BE:AB:C9:22:EA:E8:0E:78:78:34:62:A7:9F:45:C2:54:FD:E6:8B;C = US	ST = Arizona, L = Scottsdale, O = "GoDaddy.com, Inc.", CN = Go Daddy Root Certificate Authority - G2
3A:49:79:B4:0F:A8:41:48:82:00:B5:82:FB:EE:B6:3A:AB:99:19:AE;C = SI	O = Republika Slovenija, organizationIdentifier = VATSI-17659957, CN = SI-TRUST Root
61:DB:8C:21:59:69:03:90:D8:7C:9C:12:86:54:CF:9D:3D:F4:DD:07;C = DE	O = D-Trust GmbH, CN = D-TRUST EV Root CA 1 2020
66:31:BF:9E:F7:4F:9E:B6:C9:D5:A6:0C:BA:6A:BE:D1:F7:BD:EF:7B;C = GB	ST = Greater Manchester, L = Salford, O = COMODO CA Limited, CN = COMODO Certification Authority
B8:23:6B:00:2F:1D:16:86:53:01:55:6C:11:A4:37:CA:EB:FF:C3:BB;C = US	O = AffirmTrust, CN = AffirmTrust Premium ECC
89:D4:83:03:4F:9E:9A:48:80:5F:72:37:D4:A9:A6:EF:CB:7C:1F:D1;C = HU	L = Budapest, O = Microsec Ltd., organizationIdentifier = VATHU-23584497, CN = e-Szigno Root CA 2017

Fingerprint	Subject
B1:BC:96:8B:D4:F4:9D:62:2A:A8:9A:81:F2:15:01:52:A4:1D:82:9C;C = BE	O = GlobalSign nv-sa, OU = Root CA, CN = GlobalSign Root CA
B2:14:2A:A9:69:EB:0D:DB:5C:E9:02:46:84:CD:85:0B:69:E4:18:E5;C = FI	O = Digi- ja vaestotietovirasto CA, OU = Certification Authority Services, OU = Varmennepalvelut, CN = DVV Gov. Root CA - G3 ECC
2C:A6:69:D0:B2:79:08:F7:29:C9:10:C6:23:17:8E:98:14:35:9B:C9;O = Cisco	CN = Cisco Basic Assurance Root CA 2099
66:F2:DC:FB:3F:81:4D:DE:E9:B3:20:6F:11:DE:FE:1B:FB:DF:E1:32;C = TH	O = Electronic Transactions Development Agency (Public Organization), OU = Thailand National Root Certification Authority, CN = Thailand National Root Certification Authority - G1
99:9A:64:C3:7F:F4:7D:9F:AB:95:F1:47:69:89:14:60:EE:C4:C3:C5;C = US	O = Microsoft Corporation, CN = Microsoft ECC Root Certificate Authority 2017
0A:B5:C3:CD:74:48:B8:6D:71:1E:77:A5:49:83:8B:87:CE:52:5F:7F;C = SG	O = Netrust Pte Ltd, OU = Netrust Certificate Authority, CN = Netrust Root CA 2
7E:04:DE:89:6A:3E:66:6D:00:E6:87:D3:3F:FA:D9:3B:E8:3D:34:9E;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G3
05:63:B8:63:0D:62:D7:5A:BB:C8:AB:1E:4B:DF:B5:A8:99:B2:4D:43;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Assured ID Root CA
C3:C5:07:48:C7:65:24:3C:F8:B0:06:60:69:10:72:D9:55:62:D6:70;OU = Phoenix	O = Cisco, CN = IT Private Root CA
2F:78:3D:25:52:18:A7:4A:65:39:71:B5:2C:A2:9C:45:15:6F:E9:19;C = ES	O = IZENPE S.A., CN = Izenpe.com
26:C7:6B:43:65:E0:03:17:F4:51:62:90:25:98:B0:71:72:BB:25:E8;O = Cisco	CN = Cisco ECC Root CA
3C:3F:EF:57:0F:FE:65:93:86:9E:A0:FE:B0:F6:ED:8E:D1:13:C7:E5;C = US	O = CommScope, CN = CommScope Public Trust ECC Root-02
5C:A9:5F:B6:E2:98:0E:C1:5A:FB:68:1B:BB:7E:62:B5:AD:3F:A8:B8;O = Cisco	CN = Cisco Licensing Root CA
2A:1D:60:27:D9:4A:B1:0A:1C:4D:91:5C:CD:33:A0:CB:3E:2D:54:CB;C = US	O = Google Trust Services LLC, CN = GTS Root R4
D5:EC:8D:7B:4C:BA:79:F4:E7:E8:CB:9D:6B:AE:77:83:10:03:21:6A;C = CN	O = BEIJING CERTIFICATE AUTHORITY, CN = BJCA Global Root CA1
3A:44:73:5A:E5:81:90:1F:24:86:61:46:1E:3B:9C:C4:5F:F5:3A:1B;C = US	O = SecureTrust Corporation, CN = Secure Global CA
F6:B1:1C:1A:83:38:E9:7B:DB:B3:A8:C8:33:24:E0:2D:9C:7F:26:66;C = TW	O = TAIWAN-CA, OU = Root CA, CN = TWCA CYBER Root CA
A8:31:11:74:A6:14:15:0D:CA:77:DD:0E:E4:0C:5D:58:FC:A0:72:A5;C = ES	O = Firmaprofesional SA, organizationIdentifier = VATES-A62634068, CN = FIRMAPROFESIONAL CA ROOT-A WEB
B8:0E:26:A9:BF:D2:B2:3B:C0:EF:46:C9:BA:C7:BB:F6:1D:0D:41:41;C = JP	O = "SECOM Trust Systems CO.,LTD.", CN = Security Communication ECC RootCA1
D1:EB:23:A4:6D:17:D6:8F:D9:25:64:C2:F1:F1:60:17:64:D8:E3:49;C = GB	ST = Greater Manchester, L = Salford, O = Comodo CA Limited, CN = AAA Certificate Services
B9:99:CD:D1:73:50:8A:C4:47:05:08:9C:8C:88:FB:BE:A0:2B:40:CD;C = FI	O = Telia Finland Oyj, CN = Telia Root CA v2
A0:F8:DB:3F:0B:F4:17:69:3B:28:2E:B7:4A:6A:D8:6D:F9:D4:48:A3;C = CZ	O = "\C4\8Cesk\C3\A1 po\C5\A1ta, s.p. [\C4\8C 47114983]", CN = PostSignum Root QCA 2
57:73:A5:61:5D:80:B2:E6:AC:38:82:FC:68:07:31:AC:9F:B5:92:5A;C = CN	O = "TrustAsia Technologies, Inc.", CN = TrustAsia Global Root CA G4

Fingerprint	Subject
F3:3E:78:3C:AC:DF:F4:A2:CC:AC:67:55:69:56:D7:E5:16:3C:E1:ED;C = PL	O = Asseco Data Systems S.A., OU = Certum Certification Authority, CN = Certum EC-384 CA
A1:4B:48:D9:43:EE:0A:0E:40:90:4F:3C:E0:A4:C0:91:93:51:5D:3F;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Assured ID Root G2
82:EF:4C:64:F0:57:CA:00:38:F0:DB:5B:76:C2:4B:65:4D:7C:DA:78;C = US	O = VISA, OU = Visa International Service Association, CN = Visa Public RSA Root CA
F6:9C:DB:B0:FC:F6:02:13:B6:52:32:A6:A3:91:3F:16:70:DA:C3:E1;C = CN	O = "iTrusChina Co.,Ltd.", CN = vTrus ECC Root CA
FE:45:65:9B:79:03:5B:98:A1:61:B5:51:2E:AC:DA:58:09:48:22:4D;C = GR	O = Hellenic Academic and Research Institutions Cert. Authority, CN = Hellenic Academic and Research Institutions RootCA 2011
E9:A8:5D:22:14:52:1C:5B:AA:0A:B4:BE:24:6A:23:8A:C9:BA:E2:A9;C = TR	L = Ankara, O = E-Tugra EBG A.S., OU = E-Tugra Trust Center, CN = E-Tugra Global Root CA RSA v3
E1:C9:50:E6:EF:22:F8:4C:56:45:72:8B:92:20:60:D7:D5:A7:A3:E8;C = US	O = Google Trust Services LLC, CN = GTS Root R1
17:F3:DE:5E:9F:0F:19:E9:8E:F6:1F:32:26:6E:20:C4:07:AE:30:EE;C = US	O = "DigiCert, Inc.", CN = DigiCert TLS ECC P384 Root G5
50:30:06:09:1D:97:D4:F5:AE:39:F7:CB:E7:92:7D:7D:65:2D:34:31;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)
B5:1C:06:7C:EE:2B:0C:3D:F8:55:AB:2D:92:F4:FE:39:D4:E7:0F:0E;C = US	ST = Arizona, L = Scottsdale, O = "Starfield Technologies, Inc.", CN = Starfield Root Certificate Authority - G2
76:12:ED:9E:49:B3:65:B4:DA:D3:12:0C:01:E6:03:74:8D:AE:8C:F0;C = KR	O = Government of Korea, OU = GPKI, CN = GPKIRootCA1
93:3D:63:3A:4E:84:0D:A4:C2:8E:89:5D:90:0F:D3:11:88:86:F7:A3;O = Cisco	CN = Cisco Root CA M2
2D:0D:52:14:FF:9E:AD:99:24:01:74:20:47:6E:6C:85:27:27:F5:43;C = FR	O = Dhimyotis, OU = 0002 48146308100036, CN = Certigna Root CA
74:6F:88:F9:AC:16:3C:53:00:9E:EF:92:0C:40:67:75:6A:15:71:7E;C = SE	O = Swedish Social Insurance Agency, CN = Swedish Government Root Authority v3
0F:36:38:5B:81:1A:25:C3:9B:31:4E:83:CA:E9:34:66:70:CC:74:B4;C = CN	O = "GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.", CN = GDCA TrustAUTH R5 ROOT
9F:5F:D9:1A:54:6D:F5:0C:71:F0:EE:7A:BD:17:49:98:84:73:E2:39;C = US	O = SSL Corporation, CN = SSL.com TLS ECC Root CA 2022
48:12:BD:92:3C:A8:C4:39:06:E7:30:6D:27:96:E6:A4:CF:22:2E:7D;C = BM	O = QuoVadis Limited, CN = QuoVadis Root CA 3 G3
6B:A0:B0:98:E1:71:EF:5A:AD:FE:48:15:80:77:10:F4:BD:6F:0B:28;OU = GlobalSign ECC Root CA - R4	O = GlobalSign, CN = GlobalSign
D0:58:49:DE:40:04:DA:6E:86:7D:EE:00:06:71:CD:A8:F4:23:26:6F;C = AT	O = A-Trust GmbH, OU = A-Trust-Root-09, CN = A-Trust-Root-09
E0:11:84:5E:34:DE:BE:88:81:B9:9C:F6:16:26:D1:96:1F:C3:B9:31;C = CH	O = WiSeKey, OU = OISTE Foundation Endorsed, CN = OISTE WiSeKey Global Root GC CA
93:05:7A:88:15:C6:4F:CE:88:2F:FA:91:16:52:28:78:BC:53:64:17;CN = ACCVRAIZ1	OU = PKIACCV, O = ACCV, C = ES

Fingerprint	Subject
F9:E1:6D:DC:01:89:CF:D5:82:45:63:3E:C5:37:7D:C2:EB:93:6F:2B;C = US	O = Certainly, CN = Certainly Root E1
FF:B7:E0:8F:66:E1:D0:C2:58:2F:02:45:C4:97:02:92:A4:6E:88:03;C = HU	L = Budapest, O = NISZ Nemzeti Infokommunik\C3\A1ci\C3\B3s Szolg\C3\A1ltat\C3\B3 Zrt., CN = F\C5\91tan\C3\BAs\C3\ADtv\C3\A1nykiad\C3\B3 - Korm\C3\A1nyzati Hiteles\C3\ADt\C3\A9s Szolg\C3\A1ltat\C3\B3
30:43:FA:4F:F2:57:DC:A0:C3:80:EE:2E:58:EA:78:B2:3F:E6:BB:C1;C = IN	OU = emSign PKI, O = eMudhra Technologies Limited, CN = emSign ECC Root CA - G3
9F:74:4E:9F:2B:4D:BA:EC:0F:31:2C:50:B6:56:3B:8E:2D:93:C3:11;C = GB	ST = Greater Manchester, L = Salford, O = COMODO CA Limited, CN = COMODO ECC Certification Authority
3B:C6:DC:E0:03:07:BD:67:60:41:EB:D8:59:70:C6:2F:8F:DA:51:09;C = IN	O = India PKI, CN = CCA India 2015 SPL
51:50:1F:BF:CE:69:18:9D:60:9C:FA:F1:40:C5:76:75:5D:CC:1F:DF;C = US	O = WFA Hotspot 2.0, CN = Hotspot 2.0 Trust Root CA - 03
AD:7E:1C:28:B0:64:EF:8F:60:03:40:20:14:C3:D0:E3:37:0E:B5:8A;C = US	O = "Starfield Technologies, Inc.", OU = Starfield Class 2 Certification Authority
CA:3A:FB:CF:12:40:36:4B:44:B2:16:20:88:80:48:39:19:93:7C:F7;C = BM	O = QuoVadis Limited, CN = QuoVadis Root CA 2
8F:43:28:8A:D2:72:F3:10:3B:6F:B1:42:84:85:EA:30:14:C0:BC:FE;C = US	ST = Washington, L = Redmond, O = Microsoft Corporation, CN = Microsoft Root Certificate Authority 2011
34:2C:D9:D3:06:2D:A4:8C:34:69:65:29:7F:08:1E:BC:2E:F6:8F:DC;C = AT	L = Vienna, ST = Austria, O = ARGE DATEN - Austrian Society for Data Protection, OU = GLOBALTRUST Certification Service, CN = GLOBALTRUST, emailAddress = info@globaltrust.info
EC:50:35:07:B2:15:C4:95:62:19:E2:A8:9A:5B:42:99:2C:4C:2C:20;C = ES	O = FNMT-RCM, OU = AC RAIZ FNMT-RCM
6A:92:E4:A8:EE:1B:EC:96:45:37:E3:29:57:49:CD:96:E3:E5:D2:60;C = TW	O = "Chunghwa Telecom Co., Ltd.", CN = HiPKI Root CA - G1
0B:BE:C2:27:22:49:CB:39:AA:DB:35:5C:53:E3:8C:AE:78:FF:B6:FE;C = ES	CN = Autoridad de Certificacion Firmaprofesional CIF A62634068
49:0A:75:74:DE:87:0A:47:FE:58:EE:F6:C7:6B:EB:C6:0B:12:40:99;C = NO	O = Buypass AS-983163327, CN = Buypass Class 2 Root CA
26:F9:93:B4:ED:3D:28:27:B0:B9:4B:A7:E9:15:1D:A3:8D:92:E5:32;C = RO	O = CERTSIGN SA, OU = certSIGN ROOT CA G2
5F:3B:8C:F2:F8:10:B3:7D:78:B4:CE:EC:19:19:C3:73:34:B9:C7:74;C = JP	O = "SECOM Trust Systems CO.,LTD.", OU = Security Communication RootCA2
28:F9:78:16:19:7A:FF:18:25:18:AA:44:FE:C1:A0:CE:5C:B6:4C:8A;C = CN	O = UniTrust, CN = UCA Global G2 Root
63:CF:B6:C1:27:2B:56:E4:88:8E:1C:23:9A:B6:2E:81:47:24:C3:C7;C = CN	O = "TrustAsia Technologies, Inc.", CN = TrustAsia Global Root CA G3
87:82:C6:C3:04:35:3B:CF:D2:96:92:D2:59:3E:7D:44:D9:34:FF:11;C = US	O = SecureTrust Corporation, CN = SecureTrust CA
EC:93:DE:08:3C:93:D9:33:A9:86:B3:D5:CD:E2:5A:CB:2F:EE:CF:8E;C = HU	L = Budapest, O = NetLock Kft., OU = Tan\C3\BAs\C3\ADtv\C3\A1nykiad\C3\B3k (Certification Services), CN = NetLock Platina (Class Platinum) F\C5\91tan\C3\BAs\C3\ADtv\C3\A1ny
ED:E5:71:80:2B:C8:92:B9:5B:83:3C:D2:32:68:3F:09:CD:A0:1E:46;C = US	O = Google Trust Services LLC, CN = GTS Root R3
39:B4:6C:D5:FE:80:06:EB:E2:2F:4A:BB:08:33:A0:AF:DB:B9:DD:84;C = BE	O = GlobalSign nv-sa, CN = GlobalSign Root E46

Fingerprint	Subject
8D:A7:F9:65:EC:5E:FC:37:91:0F:1C:6E:59:FD:C1:CC:6A:6E:DE:16;C = US	O = Amazon, CN = Amazon Root CA 1
D8:EB:6B:41:51:92:59:E0:F3:E7:85:00:C0:3D:B6:88:97:C9:EE:FC;C = NL	O = Staat der Nederlanden, CN = Staat der Nederlanden Root CA - G3
FA:B7:EE:36:97:26:62:FB:2D:B0:2A:F6:BF:03:FD:E8:7C:4B:2F:9B;C = RO	O = certSIGN, OU = certSIGN ROOT CA
77:D3:03:67:B5:E0:0C:15:F6:0C:38:61:DF:7C:E1:3B:92:46:4D:47;C = US	O = Google Trust Services LLC, CN = GTS Root R4
2D:E1:6A:56:77:BA:CA:39:E1:D6:8C:30:DC:B1:4A:BE:22:A6:17:9B;C = ES	ST = MADRID, L = MADRID, OU = see current address at www.camerfirma.com/address , OU = CHAMBERS OF COMMERCE ROOT - 2016, serialNumber = A82743287, organizationIdentifier = VATES-A82743287, O = AC CAMERFIRMA S.A., CN = CHAMBERS OF COMMERCE ROOT - 2016
AD:98:F9:F3:E4:7D:75:3B:65:D4:82:B3:A4:52:17:BB:6E:F5:E4:38;C = GB	O = Sectigo Limited, CN = Sectigo Public Server Authentication Root R46
A0:50:EE:0F:28:71:F4:27:B2:12:6D:6F:50:96:25:BA:CC:86:42:AF;C = US	O = Certainly, CN = Certainly Root R1
02:2D:05:82:FA:88:CE:14:0C:06:79:DE:7F:14:10:E9:45:D7:A5:6D;C = GR	O = Hellenic Academic and Research Institutions CA, CN = HARICA TLS RSA Root CA 2021
A7:88:49:DC:5D:7C:75:8C:8C:DE:39:98:56:B3:AA:D0:B2:A5:71:35;C = US	O = "DigiCert, Inc.", CN = DigiCert TLS RSA4096 Root G5
E1:C4:B3:D3:CD:48:E0:7C:53:F6:F9:BA:9A:B9:4F:92:42:41:C2:63;OU = Arcturus	O = Cisco, CN = Internal Customer Root CA
EA:B0:E2:52:1B:89:93:4C:11:68:F2:D8:9A:AC:22:4C:A3:8A:57:AE;C = US	O = CommScope, CN = CommScope Public Trust RSA Root-02
7A:22:1E:3D:DE:1B:06:AC:9E:C8:47:70:16:8E:3C:E5:F7:6B:06:F4;C = JP	O = "Cybertrust Japan Co., Ltd.", CN = SecureSign Root CA12
D0:67:C1:13:51:01:0C:AA:D0:C7:6A:65:37:31:16:26:4F:53:71:A2;C = AT	O = e-commerce monitoring GmbH, CN = GLOBALTRUST 2020
07:86:C0:D8:DD:8E:C0:80:98:06:98:D0:58:7A:EF:DE:A6:CC:A2:5D;C = US	O = CommScope, CN = CommScope Public Trust ECC Root-01
E7:2E:F1:DF:FC:B2:09:28:CF:5D:D4:D5:67:37:B1:51:CB:86:4F:01;C = US	OU = emSign PKI, O = eMudhra Inc, CN = emSign Root CA - C1
9C:B1:E6:FB:C2:1A:AF:3D:68:97:3C:B5:16:E9:32:C4:4C:B9:D5:60;C = US	O = VISA, OU = Visa International Service Association, CN = Visa Public ECC Root CA
91:21:98:EE:F2:3D:CA:C4:09:39:31:2F:EE:97:DD:56:0B:AE:49:B1;C = US	O = Verizon Business, OU = OmniRoot, CN = Verizon Global Root CA
11:39:A4:9E:84:84:AA:F2:D9:0D:98:5E:C4:74:1A:65:DD:5D:94:E2;C = ES	ST = MADRID, L = MADRID, OU = see current address at www.camerfirma.com/address , OU = GLOBAL CHAMBERSIGN ROOT - 2016, serialNumber = A82743287, organizationIdentifier = VATES-A82743287, O = AC CAMERFIRMA S.A., CN = GLOBAL CHAMBERSIGN ROOT - 2016
BC:B0:C1:9D:E9:98:92:70:19:38:57:E9:8D:A7:B4:5D:6E:EE:01:48;C = GR	O = Hellenic Academic and Research Institutions CA, CN = HARICA TLS ECC Root CA 2021
09:3C:61:F3:8B:8B:DC:7D:55:DF:75:38:02:05:00:E1:25:F5:C8:36;C = BM	O = QuoVadis Limited, CN = QuoVadis Root CA 2 G3
1B:8E:EA:57:96:29:1A:C9:39:EA:B8:0A:81:1A:73:73:C0:93:79:67;C = BM	O = QuoVadis Limited, CN = QuoVadis Root CA 1 G3

Fingerprint	Subject
F5:17:A2:4F:9A:48:C6:C9:F8:A2:00:26:9F:DC:0F:48:2C:AB:30:89;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Assured ID Root G3
C8:83:44:C0:18:AE:9F:CC:F1:87:B7:8F:22:D1:C5:D7:45:84:BA:E5;C = PL	O = Asseco Data Systems S.A., OU = Certum Certification Authority, CN = Certum Trusted Root CA
C3:19:7C:39:24:E6:54:AF:1B:C4:AB:20:95:7A:E2:C3:0E:13:02:6A;C = US	ST = Texas, L = Houston, O = SSL Corporation, CN = SSL.com Root Certification Authority ECC
D2:73:96:2A:2A:5E:39:9F:73:3F:E1:C7:1E:64:3F:03:38:34:FC:4D;C = US	O = Google Trust Services LLC, CN = GTS Root R2
83:E5:E5:DE:32:54:14:97:0B:26:30:11:08:44:56:E5:FA:A1:3F:FA;CN = I.CA TLS Root CA/RSA 05/2022	O = "Prvn\C3\AD certifika\C4\8Dn\C3\AD autorita, a.s.", organizationIdentifier = NTRCZ-26439395, C = CZ
9D:70:BB:01:A5:A4:A0:18:11:2E:F7:1C:01:B9:32:C5:34:E7:88:A8;C = FR	O = Certinomis, OU = 0002 433998903, CN = Certinomis - Root CA
87:B8:E6:D3:8F:1A:39:CD:97:F0:4A:9E:17:4B:3C:9E:E7:EE:11:15;C = US	O = "DigiCert, Inc.", CN = DigiCert RSA4096 Root G5
E5:8C:1C:C4:91:3B:38:63:4B:E9:10:6E:E3:AD:8E:6B:9D:D9:81:4A;C = US	O = Google Trust Services LLC, CN = GTS Root R1
8A:C7:AD:8F:73:AC:4E:C1:B5:75:4D:A5:40:F4:FC:CF:7C:B5:8E:8C;C = IN	OU = emSign PKI, O = eMudhra Technologies Limited, CN = emSign Root CA - G1
DF:3C:24:F9:BF:D6:66:76:1B:26:80:73:FE:06:D1:CC:8D:4F:82:A4;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G2
A9:CA:FE:9D:FD:67:F4:14:5A:D3:97:D0:E2:F3:05:0D:19:8D:E6:EE;C = AU	O = GOV, OU = DoD, OU = PKI, OU = CAs, CN = Australian Defence Public Root CA
5A:4D:0E:8B:5F:DC:FD:F6:4E:72:99:A3:6C:06:0D:B2:22:CA:78:E4;C = US	O = VISA, OU = Visa International Service Association, CN = Visa Information Delivery Root CA
B4:90:82:DD:45:0C:BE:8B:5B:B1:66:D3:E2:A4:08:26:CD:ED:42:CF;C = US	ST = Illinois, L = Chicago, O = "Trustwave Holdings, Inc.", CN = Trustwave Global ECC P256 Certification Authority
4B:6B:D2:D3:88:4E:46:C8:0C:E2:B9:62:BC:59:8C:D9:D5:D8:40:13;C = US	ST = MN, L = Minneapolis, O = Open Access Technology International Inc, CN = OATI WebCARES Root CA
31:F9:FC:8B:A3:80:59:86:B7:21:EA:72:95:C6:5B:3A:44:53:42:74;C = US	ST = Washington, L = Redmond, O = Microsoft Corporation, CN = Microsoft ECC TS Root Certificate Authority 2018
59:0D:2D:7D:88:4F:40:2E:61:7E:A5:62:32:17:65:CF:17:D8:94:E9;C = DE	O = T-Systems Enterprise Services GmbH, OU = T-Systems Trust Center, CN = T-TeleSec GlobalRoot Class 2
EC:B6:90:69:61:3B:39:31:E9:75:C0:6A:1B:18:EA:C6:37:3E:9E:E6;OU = Pollux	O = Cisco, CN = IT Application Root CA
69:69:56:2E:40:80:F4:24:A1:E7:19:9F:14:BA:F3:EE:58:AB:6A:BB;OU = GlobalSign ECC Root CA - R4	O = GlobalSign, CN = GlobalSign
D8:A6:33:2C:E0:03:6F:B1:85:F6:63:4F:7D:6A:06:65:26:32:28:27;C = US	O = AffirmTrust, CN = AffirmTrust Premium
55:A6:72:3E:CB:F2:EC:CD:C3:23:74:70:19:9D:2A:BE:11:E3:81:D1;C = DE	O = T-Systems Enterprise Services GmbH, OU = T-Systems Trust Center, CN = T-TeleSec GlobalRoot Class 3

Fingerprint	Subject
2F:8F:36:4F:E1:58:97:44:21:59:87:A5:2A:9A:D0:69:95:26:7F:B5;C = US	ST = Illinois, L = Chicago, O = "Trustwave Holdings, Inc.", CN = Trustwave Global Certification Authority
DD:FB:16:CD:49:31:C9:73:A2:03:7D:3F:C8:3A:4D:7D:77:5D:05:E4;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Trusted Root G4
59:22:A1:E1:5A:EA:16:35:21:F8:98:39:6A:46:46:B0:44:1B:0F:A9;C = CH	O = WISEKey, OU = Copyright (c) 2005, OU = OISTE Foundation Endorsed, CN = OISTE WISEKey Global Root GA CA
B8:01:86:D1:EB:9C:86:A5:41:04:CF:30:54:F3:4C:52:B7:E5:58:C6;C = US	OU = www.xrampsecurity.com, O = XRamp Security Services Inc, CN = XRamp Global Certification Authority
F6:10:84:07:D6:F8:BB:67:98:0C:C2:E2:44:C2:EB:AE:1C:EF:63:BE;C = US	O = Amazon, CN = Amazon Root CA 4
6F:62:DE:B8:6C:85:58:5A:E4:2E:47:8D:B4:D7:6D:B3:67:58:5A:E6;C = ES	O = Agencia Notarial de Certificacion S.L.U. - CIF B83395988, CN = ANCERT Certificados Notariales V2
AC:1E:DE:2E:1C:97:0F:ED:3E:E8:5F:8C:3A:CF:E2:BA:C0:4A:13:76;O = Cisco	CN = Cisco Root CA 2099
9B:09:59:89:81:54:08:1B:F6:A9:0E:9B:9E:58:A4:69:0C:9B:A1:04;C = CZ	O = "Prvn\C3\AD certifika\C4\8Dn\C3\AD autorita, a.s.", CN = I.CA Root CA/RSA, serialNumber = NTRCZ-26439395
80:94:64:0E:B5:A7:A1:CA:11:9C:1F:DD:D5:9F:81:02:63:A7:FB:D1;OU = GlobalSign Root CA - R6	O = GlobalSign, CN = GlobalSign
43:13:BB:96:F1:D5:86:9B:C1:4E:6A:92:F6:CF:F6:34:69:87:82:37;O = TeliaSonera	CN = TeliaSonera Root CA v1
DD:50:C0:F7:79:B3:64:2E:74:A2:B8:9D:9F:D3:40:DD:BB:F0:F2:4F;C = JP	O = "Cybertrust Japan Co., Ltd.", CN = SecureSign Root CA14
B6:AF:43:C2:9B:81:53:7D:F6:EF:6B:C3:1F:1F:60:15:0C:EE:48:66;C = US	OU = emSign PKI, O = eMudhra Inc, CN = emSign ECC Root CA - C3
1F:5B:98:F0:E3:B5:F7:74:3C:ED:E6:B0:36:7D:32:CD:F4:09:41:67;C = DE	O = D-Trust GmbH, CN = D-TRUST BR Root CA 1 2020
29:36:21:02:8B:20:ED:02:F5:66:C5:32:D1:D6:ED:90:9F:45:00:2F;C = US	O = AffirmTrust, CN = AffirmTrust Networking
E2:B8:29:4B:55:84:AB:6B:58:C2:90:46:6C:AC:3F:B8:39:8F:84:83;C = CN	O = China Financial Certification Authority, CN = CFCA EV ROOT
BD:B1:B9:3C:D5:97:8D:45:C6:26:14:55:F8:DB:95:C7:5A:D1:53:AF;C = US	O = Internet Security Research Group, CN = ISRG Root X2
19:3C:2A:76:F8:CA:DD:84:F3:5B:F5:2E:E7:AA:50:66:57:91:7A:38;C = US	O = "Entrust, Inc.", CN = Entrust 4K TLS Root CA - 2022
D3:DD:48:3E:2B:BF:4C:05:E8:AF:10:F5:FA:76:26:CF:D3:DC:30:92;C = PL	O = Unizeto Technologies S.A., OU = Certum Certification Authority, CN = Certum Trusted Network CA 2
84:1A:69:FB:F5:CD:1A:25:34:13:3D:E3:F8:FC:B8:99:D0:C9:14:B7;C = CN	O = "iTrusChina Co.,Ltd.", CN = vTrus Root CA
B5:61:EB:EA:A4:DE:E4:25:4B:69:1A:98:A5:57:47:C2:34:C7:D9:71;C = SK	L = Bratislava, O = Disig a.s., CN = CA Disig Root R2
8F:6B:F2:A9:27:4A:DA:14:A0:C4:F4:8E:61:27:F9:C0:1E:78:5D:D1;C = KR	O = NAVER BUSINESS PLATFORM Corp., CN = NAVER Global Root Certification Authority

Fingerprint	Subject
42:4A:AE:6D:0C:8C:76:24:81:7C:DB:9C:CB:51:0D:ED:62:32:19:1D;C = US	O = "Entrust, Inc.", CN = Entrust P384 TLS Root CA - 2022
62:52:DC:40:F7:11:43:A2:2F:DE:9E:F7:34:8E:06:42:51:B1:81:18;C = PL	O = Unizeto Sp. z o.o., CN = Certum CA
EC:8A:39:6C:40:F0:2E:BC:42:75:D4:9F:AB:1C:1A:5B:67:BE:D2:9A;C = GB	O = Sectigo Limited, CN = Sectigo Public Server Authentication Root E46
D4:96:59:2B:30:57:07:38:6C:C5:F3:CD:B2:59:AE:66:D7:66:1F:CA;C = ES	serialNumber = Q2863006I, O = CONSEJO GENERAL DE LA ABOGACIA, CN = ACA ROOT
E7:F3:A3:C8:CF:6F:C3:04:2E:6D:0E:67:32:C5:9E:68:95:0D:5E:D2;C = US	ST = Illinois, L = Chicago, O = "Trustwave Holdings, Inc.", CN = Trustwave Global ECC P384 Certification Authority
5B:6E:68:D0:CC:15:B6:A0:5F:1E:C1:5F:AE:02:FC:6B:2F:5D:6F:74;serialNumber = G63287510	C = ES, O = ANF Autoridad de Certificacion, OU = ANF CA Raiz, CN = ANF Secure Server Root CA
89:DF:74:FE:5C:F4:0F:4A:80:F9:E3:37:7D:54:DA:91:E1:01:31:8E;C = HU	L = Budapest, O = Microsec Ltd., CN = Microsec e-Szigno Root CA 2009, emailAddress = info@e-szigno.hu
CF:E9:70:84:0F:E0:73:0F:9D:F6:0C:7F:2C:4B:EE:20:46:34:9C:BB;C = TN	O = Agence Nationale de Certification Electronique, CN = TunTrust Root CA
B3:1E:B1:B7:40:E3:6C:84:02:DA:DC:37:D4:4D:F5:D4:67:49:52:F9;C = US	O = "Entrust, Inc.", OU = www.entrust.net/CPS is incorporated by reference, OU = "(c) 2006 Entrust, Inc.", CN = Entrust Root Certification Authority
F4:27:86:EB:6E:B8:6D:88:31:67:02:FB:BA:66:A4:53:00:AA:7A:A6;C = CN	O = BEIJING CERTIFICATE AUTHORITY, CN = BJCA Global Root CA2
20:D8:06:40:DF:9B:25:F5:12:25:3A:11:EA:F7:59:8A:EB:14:B5:47;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
0F:F9:40:76:18:D3:D7:6A:4B:98:F0:A8:35:9E:0C:FD:27:AC:CC:ED;C = CH	O = WiSeKey, OU = OISTE Foundation Endorsed, CN = OISTE WiSeKey Global Root GB CA
36:79:CA:35:66:87:72:30:4D:30:A5:FB:87:3B:0F:A7:7B:B7:0D:54;C = US	O = "VeriSign, Inc.", OU = VeriSign Trust Network, OU = "(c) 2008 VeriSign, Inc. - For authorized use only", CN = VeriSign Universal Root Certification Authority
55:9B:BA:7B:0F:FE:80:D6:D3:82:9B:1F:D0:7A:A4:D3:22:19:47:90;CN = CAEDICOM Root	O = EDICOM, C = ES
18:52:3B:0D:06:37:E4:D6:3A:DF:23:E4:98:FB:5B:16:FB:86:74:48;CN = Atos TrustedRoot Root CA RSA TLS 2021	O = Atos, C = DE
73:A5:E6:4A:3B:FF:83:16:FF:0E:DC:CC:61:8A:90:6E:4E:AE:4D:74;C = US	O = Microsoft Corporation, CN = Microsoft RSA Root Certificate Authority 2017
78:6A:74:AC:76:AB:14:7F:9C:6A:30:50:BA:9E:A8:7E:FE:9A:CE:3C;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
57:1A:80:28:12:9A:5F:44:74:D9:62:83:E2:A9:50:E1:95:43:3D:2B;OU = Corvus	O = Cisco, CN = Internal Private Root
D9:9B:10:42:98:59:47:63:F0:B9:A9:27:B7:92:69:CB:47:DD:15:8B;C = TW	O = "Chunghwa Telecom Co., Ltd.", CN = ePKI Root Certification Authority - G2

Fingerprint	Subject
53:A2:B0:4B:CA:6B:D6:45:E6:39:8A:8E:C4:0D:D2:BF:77:C3:A2:90;C = BE	O = GlobalSign nv-sa, CN = GlobalSign Root R46
AE:3B:31:BF:8F:D8:91:07:9C:F1:DF:34:CB:CE:6E:70:D3:7F:B5:B0;CN = ComSign Global Root CA	O = ComSign Ltd., C = IL
A8:98:5D:3A:65:E5:E5:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root CA
DF:71:7E:AA:4A:D9:4E:C9:55:84:99:60:2D:48:DE:5F:BC:F0:3A:25;C = US	O = IdenTrust, CN = IdenTrust Commercial Root CA 1
23:D7:31:FE:DC:5C:8B:B9:7D:E6:DC:8E:13:B4:11:BD:4F:24:00:4F;C = SI	O = Halcom d.d., organizationIdentifier = VATSI-43353126, CN = Halcom Root Certificate Authority
CB:BA:83:C8:C1:5A:5D:F1:F9:73:6F:CA:D7:EF:28:13:06:4A:07:7D;C = JP	O = "Cybertrust Japan Co., Ltd.", CN = SecureSign Root CA15
62:02:BF:16:9A:F2:7F:A6:7E:D0:CE:C6:6B:78:2B:83:22:61:26:E9;C = HR	O = Financijska agencija, CN = Fina Root CA
2C:8A:FF:CE:96:64:30:BA:04:C0:4F:81:DD:4B:49:C7:1B:5B:81:A0;C = US	O = Cisco Systems, CN = Cisco RXC-R2
46:AF:7A:31:B5:99:46:0D:46:9D:60:41:14:5B:13:65:1D:F9:17:0A;C = PT	O = MULTICERT - Serviço de Certificação Electrónica S.A., CN = MULTICERT Root Certification Authority 01
AF:E5:D2:44:A8:D1:19:42:30:FF:47:9F:E2:F8:97:BB:CD:7A:8C:B4;C = GB	ST = Greater Manchester, L = Salford, O = COMODO CA Limited, CN = COMODO RSA Certification Authority
8C:F4:27:FD:79:0C:3A:D1:66:06:8D:E8:1E:57:EF:BB:93:22:72:D4;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
45:AD:6B:B4:99:01:1B:B4:E8:4E:84:31:6A:81:C2:7D:89:EE:5C:E7;O = Cisco	CN = Cisco Root CA M1
D8:C5:38:8A:B7:30:1B:1B:6E:D4:7A:E6:45:25:3A:6F:9F:1A:27:61;C = CH	O = SwissSign AG, CN = SwissSign Gold CA - G2
F9:B5:B6:32:45:5F:9C:BE:EC:57:5F:80:DC:E9:6E:2C:C7:B2:78:B7;C = US	O = AffirmTrust, CN = AffirmTrust Commercial
6D:0A:5F:F7:B4:23:06:B4:85:B3:B7:97:64:FC:AC:75:F5:33:F2:93;C = US	O = CommScope, CN = CommScope Public Trust RSA Root-01
06:F1:AA:33:0B:92:7B:75:3A:40:E6:8C:DF:22:E3:4B:CB:EF:33:52;C = US	ST = Washington, L = Redmond, O = Microsoft Corporation, CN = Microsoft ECC Product Root Certificate Authority 2018
44:9C:05:26:FD:99:F9:35:1F:81:2D:C0:05:13:21:38:5C:BC:39:04;O = Cisco	CN = TRS Bundle Root CA
5A:8C:EF:45:D7:A6:98:59:76:7A:8C:8B:44:96:B5:78:CF:47:4B:1A;C = US	O = Amazon, CN = Amazon Root CA 2
D1:EE:B1:E8:C0:90:20:BA:B8:5D:3D:E2:7F:78:EE:33:A0:6C:AE:DB;C = US	O = "DigiCert, Inc.", CN = DigiCert ECC P384 Root G5
1E:6C:44:DC:64:73:D4:81:9B:E8:9F:B2:37:AF:48:83:FC:37:69:87;C = US	O = "Entrust, Inc.", CN = Entrust P384 EV TLS Root CA - 2022
C0:F8:96:C5:A9:3B:01:06:21:07:DA:18:42:48:BC:E9:9D:88:D5:EC;C = DE	O = Deutsche Telekom Security GmbH, CN = Telekom Security TLS ECC Root 2020
E2:52:FA:95:3F:ED:DB:24:60:BD:6E:28:F3:9C:CC:CF:5E:B3:3F:DE;C = PL	O = Krajowa Izba Rozliczeniowa S.A., CN = SZAFIR ROOT CA2
F4:35:F8:5F:01:08:DA:68:4E:7B:FD:51:7C:90:C6:27:BB:9A:6C:F5;C = FI	O = Vaestorekisterikeskus CA, OU = Certification Authority Services, OU = Varmennepalvelut, CN = VRK Gov. Root CA - G2

Fingerprint	Subject
A3:A1:B0:6F:24:61:23:4A:E3:36:A5:C2:37:FC:A6:FF:DD:F0:D7:3A;C = CN	O = UniTrust, CN = UCA Extended Validation Root
1B:18:15:AF:92:5D:14:0E:FC:5A:F9:A1:AA:55:EE:BB:4F:FB:C5:61;C = AT	O = A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH, OU = A-Trust-Root-07, CN = A-Trust-Root-07
A1:58:51:87:15:65:86:CE:F9:C4:54:E2:2A:B1:5C:58:74:56:07:B4;C = CH	O = The Federal Authorities of the Swiss Confederation, OU = Services, OU = Certification Authorities, CN = Swiss Government Root CA I
0D:44:DD:8C:3C:8C:1A:1A:58:75:64:81:E9:0F:2E:2A:FF:B3:D2:6E;C = US	O = Amazon, CN = Amazon Root CA 3
DE:99:0C:ED:99:E0:43:1F:60:ED:C3:93:7E:7C:D5:BF:0E:D9:E5:FA;O = Cisco Systems	CN = Cisco Root CA 2048
9C:BB:48:53:F6:A4:F6:D3:52:A4:E8:32:52:55:60:13:F5:AD:AF:65;C = TW	O = TAIWAN-CA, OU = Root CA, CN = TWCA Global Root CA
65:F9:90:1C:54:9C:9B:EC:6B:F4:22:B7:FD:8E:E3:82:F6:26:18:6B;C = KR	O = Ministry of the Interior and Safety, CN = MOIS SSL Root CA
3B:C4:9F:48:F8:F3:73:A0:9C:1E:BD:F8:5B:B1:C3:65:C7:D8:11:B3;C = JP	O = "Japan Certification Services, Inc.", CN = SecureSign RootCA11
AE:C5:FB:3F:C8:E1:BF:C4:E5:4F:03:07:5A:9A:E8:00:B7:F7:B6:FA;C = ES	CN = Autoridad de Certificacion Firmaprofesional CIF A62634068
8A:2F:AF:57:53:B1:B0:E6:A1:04:EC:5B:6A:69:71:6D:F6:1C:E2:84;C = TR	L = Ankara, O = E-Tugra EBG A.S., OU = E-Tugra Trust Center, CN = E-Tugra Global Root CA ECC v3
B1:2E:13:63:45:86:A4:6F:1A:B2:60:68:37:58:2D:C4:AC:FD:94:97;C = FR	O = Dhimyotis, CN = Certigna
1F:49:14:F7:D8:74:95:1D:DD:AE:02:C0:BE:FD:3A:2D:82:75:51:85;C = BM	O = QuoVadis Limited, CN = QuoVadis Root CA 3
31:43:64:9B:EC:CE:27:EC:ED:3A:3F:0B:8F:0D:E4:E8:91:DD:EE:CA;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
9B:AA:E5:9F:56:EE:21:CB:43:5A:BE:25:93:DF:A7:F0:40:D1:1D:CB;C = CH	O = SwissSign AG, CN = SwissSign Silver CA - G2
BA:29:41:60:77:98:3F:F4:F3:EF:F2:31:05:3B:2E:EA:6D:4D:45:FD;C = US	O = IdenTrust, CN = IdenTrust Public Sector Root CA 1
D4:DE:20:D0:5E:66:FC:53:FE:1A:50:88:2C:78:DB:28:52:CA:E4:74;C = IE	O = Baltimore, OU = CyberTrust, CN = Baltimore CyberTrust Root
2E:03:93:1C:D1:9C:3F:F5:98:5F:B8:7A:AD:C1:53:EB:5D:BD:F1:E3;C = CA	O = AffirmTrust, CN = AffirmTrust 4K TLS Root CA - 2022
96:C9:1B:0B:95:B4:10:98:42:FA:D0:D8:22:79:FE:60:FA:B9:16:83;C = DE	O = D-Trust GmbH, CN = D-TRUST Root Class 3 CA 2 EV 2009
3B:1E:FD:3A:66:EA:28:B1:66:97:39:47:03:A7:2C:A3:40:A0:5B:D5;C = US	ST = Washington, L = Redmond, O = Microsoft Corporation, CN = Microsoft Root Certificate Authority 2010
81:34:0A:BE:4C:CD:CE:CC:E7:7D:CC:8A:D4:57:E2:45:A0:77:5D:CE;C = CH	O = SwissSign AG, CN = SwissSign RSA TLS Root CA 2022 - 1
F3:73:B3:87:06:5A:28:84:8A:F2:F3:4A:CE:19:2B:DD:C7:8E:9C:AC;C = IT	L = Milan, O = Actalis S.p.A./03358520967, CN = Actalis Authentication Root CA

Fingerprint	Subject
06:08:3F:59:3F:15:A1:04:A0:69:A4:6B:A9:03:D0:06:B7:97:09:91;C = HU	L = Budapest, O = NetLock Kft., OU = Tan\C3\BAs\C3\ADtv\C3\A1nykiad\C3\B3k (Certification Services), CN = NetLock Arany (Class Gold) F\C5\91tan\C3\BAs\C3\ADtv\C3\A1ny
5F:B7:EE:06:33:E2:59:DB:AD:0C:4C:9A:E6:D3:8F:1A:61:C7:DC:25;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert High Assurance EV Root CA
9E:BC:75:10:42:B3:02:F3:81:F4:F7:30:62:D4:8F:C3:A7:51:B2:DD;CN = Atos TrustedRoot Root CA ECC TLS 2021	O = Atos, C = DE
27:96:BA:E6:3F:18:01:E2:77:26:1B:A0:D7:77:70:02:8F:20:EE:E4;C = US	O = "The Go Daddy Group, Inc.", OU = Go Daddy Class 2 Certification Authority
AA:40:D2:57:9B:A8:24:24:CD:27:71:9B:1D:6B:1F:35:71:73:80:99;C = CZ	organizationIdentifier = NTRCZ-47114983, O = "\C4\8Cesk\C3\A1 po\C5\A1ta, s.p.", CN = PostSignum Root QCA 4
58:E8:AB:B0:36:15:33:FB:80:F7:9B:1B:6D:29:D3:FF:8D:5F:00:F0;C = DE	O = D-Trust GmbH, CN = D-TRUST Root Class 3 CA 2 2009
82:55:55:D1:CA:D3:00:FB:BF:5B:97:F8:4D:42:77:DE:1C:02:FA:E5;C = US	ST = California, L = San Jose, O = Cisco Small Business, OU = Cisco Small Business Certificate Authority, CN = Cisco Small Business Provisioning Root Authority 1, emailAddress = ciscosb-certadmin@cisco.com
23:44:ED:28:C1:A6:F4:0C:3E:F7:8E:51:5D:C2:7B:BF:5D:01:18:3D;C = US	ST = California, L = San Jose, O = Cisco Small Business, OU = Cisco Small Business Certificate Authority, CN = Cisco Small Business Provisioning Root Authority 2, emailAddress = ciscosb-certadmin@cisco.com
2B:8F:1B:57:33:0D:BB:A2:D0:7A:6C:51:F7:0E:E9:0D:DA:B9:AD:8E;C = US	ST = New Jersey, L = Jersey City, O = The USERTRUST Network, CN = USERTrust RSA Certification Authority
9A:44:49:76:32:DB:DE:FA:D0:BC:FB:5A:7B:17:BD:9E:56:09:24:94;C = US	O = Google Trust Services LLC, CN = GTS Root R2
D1:CB:CA:5D:B2:D5:2A:7F:69:3B:67:4D:E5:F0:5A:1D:0C:95:7D:F0;C = US	ST = New Jersey, L = Jersey City, O = The USERTRUST Network, CN = USERTrust ECC Certification Authority,
92:5A:8F:8D:2C:6D:04:E0:66:5F:59:6A:FF:22:D8:63:E8:25:6F:3F;C = US	ST = Arizona, L = Scottsdale, O = "Starfield Technologies, Inc.", CN = Starfield Services Root Certificate Authority - G2
CA:BD:2A:79:A1:07:6A:31:F2:1D:25:36:35:CB:03:9D:43:29:A5:E8;C = US	O = Internet Security Research Group, CN = ISRG Root X1
2C:A6:69:D0:B2:79:08:F7:29:C9:10:C6:23:17:8E:98:14:35:9B:C9;O = Cisco	CN = Cisco Basic Assurance Root CA 2099
7E:04:DE:89:6A:3E:66:6D:00:E6:87:D3:3F:FA:D9:3B:E8:3D:34:9E;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G3
C3:C5:07:48:C7:65:24:3C:F8:B0:06:60:69:10:72:D9:55:62:D6:70;OU = Phoenix	O = Cisco, CN = IT Private Root CA
26:C7:6B:43:65:E0:03:17:F4:51:62:90:25:98:B0:71:72:BB:25:E8;O = Cisco	CN = Cisco ECC Root CA
5C:A9:5F:B6:E2:98:0E:C1:5A:FB:68:1B:BB:7E:62:B5:AD:3F:A8:B8;O = Cisco	CN = Cisco Licensing Root CA

Fingerprint	Subject
93:3D:63:3A:4E:84:0D:A4:C2:8E:89:5D:90:0F:D3:11:88:86:F7:A3;O = Cisco	CN = Cisco Root CA M2
6B:A0:B0:98:E1:71:EF:5A:AD:FE:48:15:80:77:10:F4:BD:6F:0B:28;OU = GlobalSign ECC Root CA - R4	O = GlobalSign, CN = GlobalSign
CA:3A:FB:CF:12:40:36:4B:44:B2:16:20:88:80:48:39:19:93:7C:F7;C = BM	O = QuoVadis Limited, CN = QuoVadis Root CA 2
49:0A:75:74:DE:87:0A:47:FE:58:EE:F6:C7:6B:EB:C6:0B:12:40:99;C = NO	O = Buypass AS-983163327, CN = Buypass Class 2 Root CA
ED:E5:71:80:2B:C8:92:B9:5B:83:3C:D2:32:68:3F:09:CD:A0:1E:46;C = US	O = Google Trust Services LLC, CN = GTS Root R3
8D:A7:F9:65:EC:5E:FC:37:91:0F:1C:6E:59:FD:C1:CC:6A:6E:DE:16;C = US	O = Amazon, CN = Amazon Root CA 1
77:D3:03:67:B5:E0:0C:15:F6:0C:38:61:DF:7C:E1:3B:92:46:4D:47;C = US	O = Google Trust Services LLC, CN = GTS Root R4
E1:C4:B3:D3:CD:48:E0:7C:53:F6:F9:BA:9A:B9:4F:92:42:41:C2:63;OU = Arcturus	O = Cisco, CN = Internal Customer Root CA
E5:8C:1C:C4:91:3B:38:63:4B:E9:10:6E:E3:AD:8E:6B:9D:D9:81:4A;C = US	O = Google Trust Services LLC, CN = GTS Root R1
DF:3C:24:F9:BF:D6:66:76:1B:26:80:73:FE:06:D1:CC:8D:4F:82:A4;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root G2
EC:B6:90:69:61:3B:39:31:E9:75:C0:6A:1B:18:EA:C6:37:3E:9E:E6;OU = Pollux	O = Cisco, CN = IT Application Root CA
F6:10:84:07:D6:F8:BB:67:98:0C:C2:E2:44:C2:EB:AE:1C:EF:63:BE;C = US	O = Amazon, CN = Amazon Root CA 4
AC:1E:DE:2E:1C:97:0F:ED:3E:E8:5F:8C:3A:CF:E2:BA:C0:4A:13:76;O = Cisco	CN = Cisco Root CA 2099
BD:B1:B9:3C:D5:97:8D:45:C6:26:14:55:F8:DB:95:C7:5A:D1:53:AF;C = US	O = Internet Security Research Group, CN = ISRG Root X2
57:1A:80:28:12:9A:5F:44:74:D9:62:83:E2:A9:50:E1:95:43:3D:2B;OU = Corvus	O = Cisco, CN = Internal Private Root
A8:98:5D:3A:65:E5:E5:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36;C = US	O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root CA
DF:71:7E:AA:4A:D9:4E:C9:55:84:99:60:2D:48:DE:5F:BC:F0:3A:25;C = US	O = IdenTrust, CN = IdenTrust Commercial Root CA 1
2C:8A:FF:CE:96:64:30:BA:04:C0:4F:81:DD:4B:49:C7:1B:5B:81:A0;C = US	O = Cisco Systems, CN = Cisco RXC-R2
45:AD:6B:B4:99:01:1B:B4:E8:4E:84:31:6A:81:C2:7D:89:EE:5C:E7;O = Cisco	CN = Cisco Root CA M1
44:9C:05:26:FD:99:F9:35:1F:81:2D:C0:05:13:21:38:5C:BC:39:04;O = Cisco	CN = TRS Bundle Root CA
5A:8C:EF:45:D7:A6:98:59:76:7A:8C:8B:44:96:B5:78:CF:47:4B:1A;C = US	O = Amazon, CN = Amazon Root CA 2
0D:44:DD:8C:3C:8C:1A:1A:58:75:64:81:E9:0F:2E:2A:FF:B3:D2:6E;C = US	O = Amazon, CN = Amazon Root CA 3
DE:99:0C:ED:99:E0:43:1F:60:ED:C3:93:7E:7C:D5:BF:0E:D9:E5:FA;O = Cisco Systems	CN = Cisco Root CA 2048
D4:DE:20:D0:5E:66:FC:53:FE:1A:50:88:2C:78:DB:28:52:CA:E4:74;C = IE	O = Baltimore, OU = CyberTrust, CN = Baltimore CyberTrust Root