

Certificate Authorities that are BuiltIn Object Tokens

Firefox Version: 3.5.1

- The Approval Bug # column shows the bug number in which approval was achieved based on the Mozilla CA Policy.
- Bug numbers that are underlined were found in the pending/index.xml page.
- Bug numbers that are not underlined were found by going through the CVS Log of security/nss/lib/ckfw/builtins/certdata.txt, and reviewing the content of the bugs to verify that the root was approved for inclusion.
- “Legacy” means that I could not find any evidence in either Bugzilla or the CVS Log that indicated that the root was approved via the Mozilla CA Policy.
- “In Process” or “Reviewed” means that the root has undergone a recent review (e.g. for enablement of an additional trust bit or of EV) that has verified that the root follows the Mozilla CA Policy.

OU and O	Root CN	Valid From	Valid To	Key length	Signature Algorithm	Trust Bits	Approval Bug #
O = (c) 2005 TÜRKTRUST Bilgi İletişim ve Bilişim Güvenliği Hizmetleri A.Ş.	TÜRKTRUST Elektronik Sertifika Hizmet Sağlayıcısı	2005 May 13	2015 Mar 22	2048	SHA-1	Websites Email Code	<u>380635</u>
O = ABA.ECOM, INC.	ABA.ECOM Root CA	1999 Jul 12	2009 Jul 09	2048	SHA-1	Websites Email Code	Legacy
OU = http://www.chambersign.org O = AC Camerfirma SA CIF A82743287	Chambers of Commerce Root	2003 Sep 30	2037 Sep 30	2048	SHA-1	Websites Email Code	261778
OU = http://www.chambersign.org O = AC Camerfirma SA CIF A82743287	Global Chambersign Root	2003 Sep 30	2037 Sep 30	2048	SHA-1	Websites Email Code	261778
OU = AddTrust TTP Network O = AddTrust AB	AddTrust Class 1 CA Root	2000 May 30	2020 May 30	2048	SHA-1	Websites Email	Legacy
OU = AddTrust External TTP Network O = AddTrust AB	AddTrust External CA Root	2000 May 30	2020 May 30	2048	SHA-1	Websites Email Code	Legacy
OU = AddTrust TTP Network O = AddTrust AB	AddTrust Public CA Root	2000 May 30	2020 May 30	2048	SHA-1	Websites Email Code	Legacy

OU = AddTrust TTP Network O = AddTrust AB	AddTrust Qualified CA Root	2000 May 30	2020 May 30	2048	SHA-1	Websites Email Code	Legacy
O = America Online Inc.	America Online Root Certification Authority 1	2002 May 27	2037 Nov 19	2048	SHA-1	Websites Email Code	Legacy
O = America Online Inc.	America Online Root Certification Authority 2	2002 May 27	2037 Sep 29	4096	SHA-1	Websites Email Code	Legacy
OU = America Online Inc. O = AOL Time Warner Inc.	AOL Time Warner Root Certification Authority 1	2002 May 28	2037 Nov 20	2048	SHA-1	Websites Email Code	Legacy
OU = America Online Inc. O = AOL Time Warner Inc.	AOL Time Warner Root Certification Authority 2	2002 May 28	2037 Sep 28	4096	SHA-1	Websites Email Code	Legacy
No O or OU	Autoridad de Certificacion Firmaprofesional CIF A62634068	2001 Oct 24	2013 Oct 24	2048	SHA-1	Websites Email	342426
OU = CyberTrust O = Baltimore	Baltimore CyberTrust Root	2000 May 12	2025 May 12	2048	SHA-1	Websites Email	In Process 430698
OU = beTRUSTed Root CAs O = beTRUSTed	beTRUSTed Root CA	2000 Jun 20	2010 Jun 20	2048	SHA-1	Websites Email Code	Legacy
OU = beTRUSTed Root CAs O = beTRUSTed	beTRUSTed Root CA - Baltimore Implementation	2002 Apr 11	2022 Apr 11	2048	SHA-1	Websites Email Code	Legacy
OU = beTRUSTed Root CAs O = beTRUSTed	beTRUSTed Root CA - Entrust Implementation	2002 Apr 11	2022 Apr 11	2048	SHA-1	Websites Email Code	Legacy
OU = beTRUSTed Root CAs O = beTRUSTed	beTRUSTed Root CA - RSA Implementation	2002 Apr 11	2022 Apr 12	2048	SHA-1	Websites Email Code	Legacy
O = Certplus	Class 2 Primary CA	1999 Jul 07	2019 Jul 06	2048	SHA-1	Websites Email	335392

O = COMODO CA Limited	COMODO ECC Certification Authority	2008 Mar 05	2038 Jan 18	ECC	SECG elliptic curve secp384r1 (aka NIST P-384)	Websites Email Code	421946
O = Comodo CA Limited	AAA Certificate Services	2003 Dec 31	2028 Dec 31	2048	SHA-1	Websites Email Code	249710
O = Comodo CA Limited	Secure Certificate Services	2003 Dec 31	2028 Dec 31	2048	SHA-1	Websites Email Code	249710
O = Comodo CA Limited	Trusted Certificate Services	2003 Dec 31	2028 Dec 31	2048	SHA-1	Websites Email Code	249710
O = COMODO CA Limited	COMODO Certification Authority	2006 Nov 30	2029 Dec 31	2048	SHA-1	Websites Email Code	401587
O = ComSign	ComSign Secured CA	2004 Mar 24	2029 Mar 16	2048	SHA-1	Websites Code	420705
O = ComSign	ComSign CA	2004 Mar 24	2029 Mar 19	2048	SHA-1	Email	420705
O = Cybertrust, Inc	Cybertrust Global Root	2006 Dec 15	2021 Dec 15	2048	SHA-1	Websites	430700
OU = T-TeleSec Trust Center O = Deutsche Telekom AG	Deutsche Telekom Root CA 2	1999 Jul 09	2019 Jul 09	2048	SHA-1	Websites Email Code	378882
O = Deutscher Sparkassen Verlag GmbH	S-TRUST Authentication and Encryption Root CA 2005:PN	2005 Jun 21	2030 Jun 21	2048	SHA-1	Email	370627
O = Dhimyotis	Certigna	2007 Jun 29	2027 Jun 29	2048	SHA-1	Websites Email	393166
OU = www.digicert.com O = DigiCert Inc	DigiCert Assured ID Root CA	2006 Nov 09	2031 Nov 09	2048	SHA-1	Websites Email	364568
OU = www.digicert.com O = DigiCert Inc	DigiCert Global Root CA	2006 Nov 09	2031 Nov 09	2048	SHA-1	Websites Email	364568
OU = www.digicert.com O = DigiCert Inc	DigiCert High Assurance EV Root CA	2006 Nov 09	2031 Nov 09	2048	SHA-1	Websites Email	364568
O = DigiNotar	DigiNotar Root CA	2007 May 16	2025 Mar 31	4096	SHA-1	Websites Code	369357

OU = DST ACES O = Digital Signature Trust	DST ACES CA X6	2003 Nov 20	2017 Nov 20	2048	SHA-1	Websites	359069
OU = DSTCA E1 O = Digital Signature Trust Co.	No CN Cert Name: Digital Signature Trust Co. Global CA 1	1998 Dec 10	2018 Dec 10	1024	SHA-1	Websites Email Code	Legacy
OU = DSTCA E2 O = Digital Signature Trust Co.	No CN Cert Name: Digital Signature Trust Co. Global CA 3	1998 Dec 09	2018 Dec 09	1024	SHA-1	Websites Email Code	Legacy
OU = DSTCA X1 O = Digital Signature Trust Co.	DST RootCA X1	1998 Dec 01	2008 Nov 28	2048	SHA-1	Websites Email Code	Legacy, Expired, Replaced by X3
OU = DSTCA X2 O = Digital Signature Trust Co.	DST RootCA X2	1998 Nov 30	2008 Nov 27	2048	SHA-1	Websites Email Code	Legacy, Expired, Replaced by X6
O = Digital Signature Trust Co.	DST Root CA X3	2000 Sep 30	2021 Sep 30	2048	SHA-1	Websites	359069
OU = (c) 2006 Entrust, Inc. OU = www.entrust.net/CPS is incorporated by reference O = Entrust, Inc.	Entrust Root Certification Authority	2006 Nov 27	2026 Nov 27	2048	SHA-1	Websites	382352
OU = (c) 1999 Entrust.net Limited OU = www.entrust.net/CPS incorp. by ref. (limits liab.) O = Entrust.net	Entrust.net Secure Server Certification Authority	1999 May 25	2019 May 25	1024	SHA-1	Websites Email Code	Reviewed 416544
OU = (c) 1999 Entrust.net Limited OU = www.entrust.net/Client_CA_Inf o/CPS incorp. by ref. limits liab. O = Entrust.net	Entrust.net Client Certification Authority	1999 Oct 12	2019 Oct 12	1024	MD5	Websites Email Code	Legacy

OU = (c) 1999 Entrust.net Limited OU = www.entrust.net/CPS_2048 incorp. by ref. (limits liab.) O = Entrust.net	Entrust.net Certification Authority (2048)	1999 Dec 24	2019 Dec 24	2048	SHA-1	Websites Email Code	Reviewed 416544
OU = (c) 2000 Entrust.net Limited OU = www.entrust.net/SSL_CPS incorp. by ref. (limits liab.) O = Entrust.net	Entrust.net Secure Server Certification Authority	2000 Feb 04	2020 Feb 04	1024	MD5	Websites Email Code	Legacy
OU = (c) 2000 Entrust.net Limited OU = www.entrust.net/GCCA_CPS incorp. by ref. (limits liab.) O = Entrust.net	Entrust.net Client Certification Authority	2000 Feb 07	2020 Feb 07	1024	MD5	Websites Email Code	Legacy
OU = Equifax Secure Certificate Authority O = Equifax	No CN Cert Name: Equifax Secure CA	1998 Aug 22	2018 Aug 22	1024	SHA-1	Websites Email Code	Legacy
OU = Equifax Secure eBusiness CA-2 O = Equifax Secure	No CN Cert Name: Equifax Secure eBusiness CA 2	1999 Jun 23	2019 Jun 23	1024	SHA-1	Websites Email Code	Legacy
O = Equifax Secure Inc.	Equifax Secure Global eBusiness CA-1 Cert Name: MD5 Collisions Inc. (http://www.phreedom.org/md5)	2004 Jul 30	2004 Sep 01	1024	MD5		471715
O = Equifax Secure Inc.	Equifax Secure Global eBusiness CA-1	1999 Jun 20	2020 Jun 20	1024	MD5	Websites Email Code	Legacy
O = Equifax Secure Inc.	Equifax Secure eBusiness CA-1	1999 Jun 20	2020 Jun 20	1024	MD5	Websites Email Code	Legacy

O = GeoTrust Inc.	GeoTrust Global CA	2002 May 20	2022 May 20	2048	SHA-1	Websites Email Code	Legacy
O = GeoTrust Inc.	GeoTrust Global CA 2	2004 Mar 03	2019 Mar 03	2048	SHA-1	Websites Email Code	294916
O = GeoTrust Inc.	GeoTrust Universal CA	2004 Mar 03	2029 Mar 03	4096	SHA-1	Websites Email Code	294916
O = GeoTrust Inc.	GeoTrust Universal CA 2	2004 Mar 03	2029 Mar 03	4096	SHA-1	Websites Email Code	294916
O = GeoTrust Inc.	GeoTrust Primary Certification Authority	2006 Nov 26	2036 Jul 16	2048	SHA-1	Websites	407168
O = GlobalSign OU = GlobalSign Root CA - R2	GlobalSign	2006 Dec 15	2021 Dec 15	2048	SHA-1	Websites Email Code	367245
OU = Root CA O = GlobalSign nv-sa	GlobalSign Root CA	1998 Sep 01	2028 Jan 28	2048	SHA-1	Websites Email Code	406794
O = Government Root Certification Authority	No CN Cert Name: Taiwan GRCA	2002 Dec 05	2032 Dec 05	4096	SHA-1	Websites Email Code	274106
O = GTE Corporation	GTE CyberTrust Root	1996 Feb 23	2006 Feb 23	1024	MD5	Websites Email Code	Legacy, Expired, Request to remove 416684
OU = GTE CyberTrust Solutions, Inc. O = GTE Corporation	GTE CyberTrust Global Root	1998 Aug 12	2018 Aug 13	1024	MD5	Websites Email Code	Reviewed 430694
OU = IPS CA Timestamping Certification Authority O = ips@mail.ips.es C.I.F. B- 60929452 O = IPS Internet publishing Services s.l.	IPS CA Timestamping Certification Authority	2001 Dec 28	2025 Dec 26	1024	SHA-1	Websites Email Code	232695

OU = IPS CA Chained CAs Certification Authority O = ips@mail.ips.es C.I.F. B-60929452 O = IPS Internet publishing Services s.l.	IPS CA Chained CAs Certification Authority	2001 Dec 28	2025 Dec 26	1024	SHA-1	Websites Email Code	232695
OU = IPS CA CLASE1 Certification Authority O = ips@mail.ips.es C.I.F. B-60929452 O = IPS Internet publishing Services s.l.	IPS CA CLASE1 Certification Authority	2001 Dec 28	2025 Dec 26	1024	SHA-1	Websites Email Code	232695
OU = IPS CA CLASE3 Certification Authority O = ips@mail.ips.es C.I.F. B-60929452 O = IPS Internet publishing Services s.l.	IPS CA CLASE3 Certification Authority	2001 Dec 28	2025 Dec 26	1024	SHA-1	Websites Email Code	232695
OU = IPS CA CLASEA1 Certification Authority O = ips@mail.ips.es C.I.F. B-60929452 O = IPS Internet publishing Services s.l.	IPS CA CLASEA1 Certification Authority	2001 Dec 28	2025 Dec 26	1024	SHA-1	Websites Email Code	232695
OU = IPS CA CLASEA3 Certification Authority O = ips@mail.ips.es C.I.F. B-60929452 O = IPS Internet publishing Services s.l.	IPS CA CLASEA3 Certification Authority	2001 Dec 28	2025 Dec 26	1024	SHA-1	Websites Email Code	232695
OU = Certificaciones O = IPS Seguridad CA	IPS SERVIDORES	1998 Jan 01	2009 Dec 29	1024	MD5	Websites Email Code	232695
OU = e-Szigno CA O = Microsec Ltd.	Microsec e-Szigno Root CA	2005 Apr 06	2017 Apr 06	2048	SHA-1	Websites Email Code	370505

OU = Tanusitvanykiadok O = NetLock Halozatbiztonsagi Kft.	NetLock Minositett Kozjegyzoi (Class QA) Tanusitvanykiado	2003 Mar 29	2022 Dec 14	2048	SHA-1	Email Code	313942
OU = Tanusitvanykiadok O = NetLock Halozatbiztonsagi Kft.	NetLock Kozjegyzoi (Class A) Tanusitvanykiado	1999 Feb 24	2019 Feb 19	2048	MD5	Websites Email Code	279728
OU = Tanusitvanykiadok O = NetLock Halozatbiztonsagi Kft.	NetLock Uzleti (Class B) Tanusitvanykiado	1999 Feb 25	2019 Feb 20	1024	MD5	Websites Email Code	279728
OU = Tanusitvanykiadok O = NetLock Halozatbiztonsagi Kft.	NetLock Expressz (Class C) Tanusitvanykiado	1999 Feb 25	2019 Feb 20	1024	MD5	Websites Email Code	279728
O = Network Solutions L.L.C.	Network Solutions Certificate Authority	2006 Nov 30	2029 Dec 31	2048	SHA-1	Websites	403915
OU = DCSSI O = PM/SGDN	IGC/A	2002 Dec 13	2020 Oct 17	2048	SHA-1	Websites Email Code	368970
OU = Root Certification Authority O = QuoVadis Limited	QuoVadis Root Certification Authority	2001 Mar 19	2021 Mar 17	2048	SHA-1	Websites Email Code	238381
O = QuoVadis Limited	QuoVadis Root CA 2	2006 Nov 24	2031 Nov 24	4096	SHA-1	Websites Email Code	365281
O = QuoVadis Limited	QuoVadis Root CA 3	2006 Nov 24	2031 Nov 24	4096	SHA-1	Websites Email Code	365281
OU = Secure Server Certification Authority O = RSA Data Security, Inc.	No CN Cert Name: Verisign/RSA Secure Server CA	1994 Nov 08	2010 Jan 07	1000	MD2	Websites Email Code	Legacy
OU = RSA Security 2048 V3 O = RSA Security Inc	No CN Cert Name: RSA Security 2048 v3	2001 Feb 22	2026 Feb 22	2048	SHA-1	Websites Email Code	Legacy
OU = RSA Security 1024 V3 O = RSA Security Inc	No CN Cert Name: RSA Security 1024 v3	2001 Feb 22	2026 Feb 22	1024	SHA-1	Websites Email Code	Legacy

OU = Security Communication EV RootCA1 O = SECOM Trust Systems CO.,LTD.	No CN Cert Name: Security Communication EV RootCA1	2007 Jun 05	2037 Jun 05	2048	SHA-1	Websites	394419
OU = Security Communication RootCA1 O = SECOM Trust.net	No CN Cert Name: Security Communication Root CA	2003 Sep 29	2023 Sep 29	2048	SHA-1	Websites Email Code	260259
O = SecureTrust Corporation	SecureTrust CA	2006 Nov 07	2029 Dec 31	2048	SHA-1	Websites Code	409837
O = SecureTrust Corporation	Secure Global CA	2006 Nov 07	2029 Dec 31	2048	SHA-1	Websites Email Code	409838
O = Sociedad Cameral de Certificación Digital - Certicámara S.A.	AC Raíz Certicámara S.A.	2006 Nov 27	2030 Apr 02	4096	SHA-1	Websites Email Code	401262
O = Sonera	Sonera Class1 CA	2001 Apr 06	2021 Apr 06	2048	SHA-1	Email	258416
O = Sonera	Sonera Class2 CA	2001 Apr 06	2021 Apr 06	2048	SHA-1	Websites Email Code	258416
O = Staat der Nederlanden	Staat der Nederlanden Root CA	2002 Dec 17	2015 Dec 16	2048	SHA-1	Websites Email Code	243424
OU = Starfield Class 2 Certification Authority O = Starfield Technologies, Inc.	No CN Cert Name: Starfield Class 2 CA	2004 Jun 29	2034 Jun 29	2048	SHA-1	Websites Email Code	284677
OU = CA Authority Dep. O = StartCom Ltd.	Free SSL Certification Authority	2005 Mar 17	2035 Mar 10	1024	MD5	Websites Email	338552
OU = Secure Digital Certificate Signing O = StartCom Ltd.	StartCom Certification Authority	2006 Sep 17	2036 Sep 17	4096	SHA-1	Websites Email Code	362304
OU = Digital Certificate Services O = Swisscom	Swisscom Root CA 1	2005 Aug 18	2025 Aug 18	4096	SHA-1	Websites Email Code	342470
O = SwissSign AG	SwissSign Platinum CA - G2	2006 Oct 25	2036 Oct 25	4096	SHA-1	Email Code	343756

O = SwissSign AG	SwissSign Gold CA - G2	2006 Oct 25	2036 Oct 25	4096	SHA-1	Websites Email Code	343756
O = SwissSign AG	SwissSign Silver CA - G2	2006 Oct 25	2036 Oct 25	4096	SHA-1	Websites Email Code	343756
OU = TC TrustCenter Class 2 CA O = TC TrustCenter for Security in Data Networks GmbH	No CN Cert Name: TC TrustCenter, Germany, Class 2 CA	1998 Mar 09	2011 Jan 01	1024	MD5	Websites Email Code	Legacy
OU = TC TrustCenter Class 3 CA O = TC TrustCenter for Security in Data Networks GmbH	No CN Cert Name: TC TrustCenter, Germany, Class 3 CA	1998 Mar 09	2011 Jan 01	1024	MD5	Websites Email Code	Legacy
OU = TC TrustCenter Class 2 CA O = TC TrustCenter GmbH	TC TrustCenter Class 2 CA II	2006 Jan 12	2025 Dec 31	2048	SHA-1	Websites Email Code	392024
OU = TC TrustCenter Class 3 CA O = TC TrustCenter GmbH	TC TrustCenter Class 3 CA II	2006 Jan 12	2025 Dec 31	2048	SHA-1	Websites Email Code	392024
OU = TC TrustCenter Universal CA O = TC TrustCenter GmbH	TC TrustCenter Universal CA I	2006 Mar 22	2025 Dec 31	2048	SHA-1	Websites Email Code	392024
O = TDC	TDC OCES CA	2003 Feb 11	2037 Feb 11	2048	SHA-1	Websites Email Code	204839
OU = TDC Internet Root CA O = TDC Internet	No CN Cert Name: TDC Internet Root CA	2001 Apr 05	2021 Apr 05	2048	SHA-1	Websites Email Code	204839
OU = Thawte Certification O = Thawte	Thawte Timestamping CA	1996 Dec 31	2020 Dec 31	1024	MD5	Websites Email Code	Legacy
OU = Certification Services Division O = Thawte Consulting	Thawte Personal Basic CA	1995 Dec 31	2020 Dec 31	1024	MD5	Email Code	Legacy

OU = Certification Services Division O = Thawte Consulting	Thawte Personal Premium CA	1995 Dec 31	2020 Dec 31	1024	MD5	Email Code	Legacy
OU = Certification Services Division O = Thawte Consulting	Thawte Personal Freemail CA	1995 Dec 31	2020 Dec 31	1024	MD5	Email	Legacy
OU = Certification Services Division O = Thawte Consulting cc	Thawte Server CA	1996 Jul 31	2020 Dec 31	1024	MD5	Websites Code	Legacy
OU = Certification Services Division O = Thawte Consulting cc	Thawte Premium Server CA	1996 Jul 31	2020 Dec 31	1024	MD5	Websites Code	Legacy
OU = (c) 2006 thawte, Inc. - For authorized use only OU = Certification Services Division O = thawte, Inc.	thawte Primary Root CA	2006 Nov 16	2036 Jul 16	2048	SHA-1	Websites	407163
OU = Go Daddy Class 2 Certification Authority O = The Go Daddy Group, Inc.	No CN Cert Name: Go Daddy Class 2 CA	2004 Jun 29	2034 Jun 29	2048	SHA-1	Websites Email Code	284677
OU = http://www.usertrust.com O = The USERTRUST Network	UTN-USERFirst-Network Applications	1999 Jul 09	2019 Jul 09	2048	SHA-1	Websites Email Code	Legacy
OU = http://www.usertrust.com O = The USERTRUST Network	UTN - DATA Corp SGC	1999 Jun 24	2019 Jun 24	2048	SHA-1	Websites	242610
OU = http://www.usertrust.com O = The USERTRUST Network	UTN-USERFirst-Client Authentication and Email	1999 Jul 09	2019 Jul 09	2048	SHA-1	Email	242610
OU = http://www.usertrust.com O = The USERTRUST Network	UTN-USERFirst-Hardware	1999 Jul 09	2019 Jul 09	2048	SHA-1	Websites	242610
OU = http://www.usertrust.com O = The USERTRUST Network	UTN-USERFirst-Object	1999 Jul 09	2019 Jul 09	2048	SHA-1	Code	242610

O = TÜRKTRUST Bilgi İletişim ve Bilişim Güvenliği Hizmetleri A.Ş. (c) Kasım 2005	TÜRKTRUST Elektronik Sertifika Hizmet Sağlayıcısı	2005 Nov 07	2015 Sep 16	2048	SHA-1	Websites Email Code	380635
O = Unizeto Sp. z o.o.	Certum CA	2002 Jun 11	2027 Jun 11	2048	SHA-1	Websites Email Code	167572
OU = ValiCert Class 1 Policy Validation Authority O = ValiCert, Inc.	http://www.valicert.com/	1999 Jun 25	2019 Jun 25	1024	SHA-1	Websites Email Code	Legacy
OU = ValiCert Class 2 Policy Validation Authority O = ValiCert, Inc.	http://www.valicert.com/	1999 Jun 25	2019 Jun 25	1024	SHA-1	Websites Email Code	Reviewed 403437
OU = ValiCert Class 3 Policy Validation Authority O = ValiCert, Inc.	http://www.valicert.com/	1999 Jun 25	2019 Jun 25	1024	SHA-1	Websites Email Code	Legacy
OU = (c) 2006 VeriSign, Inc. - For authorized use only OU = VeriSign Trust Network O = VeriSign, Inc.	VeriSign Class 3 Public Primary Certification Authority - G5	2006 Nov 07	2036 Jul 16	2048	SHA-1	Websites	402947
OU = Class 3 Public Primary Certification Authority O = VeriSign, Inc.	No CN Cert Name: VeriSign Class 3 Public Primary Certification Authority	1996 Jan 28	2028 Aug 01	1024	MD2	Websites Email Code	Legacy
OU = Class 1 Public Primary Certification Authority O = VeriSign, Inc.	No CN Cert Name: VeriSign Class 1 Public Primary Certification Authority	1996 Jan 28	2028 Aug 01	1024	MD2	Email	Legacy
OU = Class 2 Public Primary Certification Authority O = VeriSign, Inc.	No CN Cert Name: VeriSign Class 2 Public Primary Certification Authority	1996 Jan 28	2028 Aug 01	1024	MD2	Email Code	Legacy
OU = VeriSign Trust Network OU = (c) 1998 VeriSign, Inc. - For authorized use only OU = Class 1 Public Primary Certification Authority - G2	No CN Cert Name: VeriSign Class 1 Public Primary Certification Authority - G2	1998 May 17	2028 Aug 01	1024	SHA-1	Email	In Process 490895

OU = VeriSign Trust Network OU = (c) 1998 VeriSign, Inc. - For authorized use only OU = Class 2 Public Primary Certification Authority - G2 O = VeriSign, Inc.	No CN Cert Name: VeriSign Class 2 Public Primary Certification Authority – G2	1998 May 17	2028 Aug 01	1024	SHA-1	Email Code	In Process 490895
OU = VeriSign Trust Network OU = (c) 1998 VeriSign, Inc. - For authorized use only OU = Class 3 Public Primary Certification Authority - G2 O = VeriSign, Inc.	No CN Cert Name: VeriSign Class 3 Public Primary Certification Authority – G2	1998 May 17	2028 Aug 01	1024	SHA-1	Websites Email Code	In Process 490895
OU = VeriSign Trust Network OU = (c) 1998 VeriSign, Inc. - For authorized use only OU = Class 4 Public Primary Certification Authority - G2 O = VeriSign, Inc.	No CN Cert Name: VeriSign Class 4 Public Primary Certification Authority – G2	1998 May 17	2028 Aug 01	1024	SHA-1	Websites Email Code	Legacy
OU = (c) 1999 VeriSign, Inc. - For authorized use only OU = VeriSign Trust Network O = VeriSign, Inc.	VeriSign Class 1 Public Primary Certification Authority - G3	1999 Sep 30	2036 Jul 16	2048	SHA-1	Email	In Process 490895
OU = (c) 1999 VeriSign, Inc. - For authorized use only OU = VeriSign Trust Network O = VeriSign, Inc.	VeriSign Class 2 Public Primary Certification Authority - G3	1999 Sep 30	2036 Jul 16	2048	SHA-1	Email Code	In Process 490895
OU = (c) 1999 VeriSign, Inc. - For authorized use only OU = VeriSign Trust Network O = VeriSign, Inc.	VeriSign Class 3 Public Primary Certification Authority - G3	1999 Sep 30	2036 Jul 16	2048	SHA-1	Websites Email Code	In Process 490895
OU = (c) 1999 VeriSign, Inc. - For authorized use only OU = VeriSign Trust Network O = VeriSign, Inc.	VeriSign Class 4 Public Primary Certification Authority - G3	1999 Sep 30	2036 Jul 16	2048	SHA-1	Websites Email Code	Legacy

OU = VeriSign Trust Network OU = (c) 1998 VeriSign, Inc. - For authorized use only OU = Class 3 Public Primary Certification Authority - G2 O = VeriSign, Inc.	No CN Cert Name: VeriSign Time Stamping Authority CA	2000 Sep 25	2010 Sep 25	1024	SHA-1	Websites Email Code	In Process 490895
OU = Visa International Service Association O = VISA	GP Root 2	2000 Aug 16	2020 Aug 15	2048	SHA-1	Websites Email	Legacy, Removal requested 380067
OU = Visa International Service Association O = VISA	Visa eCommerce Root	2002 Jun 25	2022 Jun 23	2048	SHA-1	Websites Email Code	Legacy
OU = Wells Fargo Certification Authority O = Wells Fargo	Wells Fargo Root Certificate Authority	2000 Oct 11	2021 Jan 14	2048	SHA-1	Websites Email Code	342996
OU = Wells Fargo Bank NA O = Wells Fargo WellsSecure	WellsSecure Public Root Certificate Authority	2007 Dec 13	2022 Dec 13	2048	SHA-1	Websites	428390
OU = OIStE Foundation Endorsed OU = Copyright (c) 2005 O = WISEKey	OIStE WISEKey Global Root GA CA	2005 Dec 11	2037 Dec 11	2048	SHA-1	Websites Email	371362
O = XRamp Security Services Inc OU = www.xrampsecurity.com	XRamp Global Certification Authority	2004 Nov 01	2034 Dec 31	2048	SHA-1	Websites Email Code	273189