

INDEPENDENT ASSURANCE REPORT

To the management of Entrust Limited ("Entrust"):

Scope

We have been engaged, in a reasonable assurance engagement, to report on Entrust management's [statement](#) that for its Certification Authority ("CA") operations in Ottawa, Ontario, Canada and Toronto, Ontario, Canada, throughout the period March 1, 2025 to September 17, 2025 (the "Period") for its CAs as enumerated in [Attachment A](#), Entrust has maintained effective controls to provide reasonable assurance that it meets the Network and Certificate System Security Requirements as set forth by the CA/Browser Forum in accordance with the [WebTrust Principles and Criteria for Certification Authorities – Network Security – Version 1.7](#).

Certification authority's responsibilities

Entrust's management is responsible for its statement, including the fairness of its presentation, and the provision of its described services in accordance with the [WebTrust Principles and Criteria for Certification Authorities – Network Security – Version 1.7](#).

Our independence and quality management

We have complied with the relevant rules of professional conduct / code of ethics applicable to the practice of public accounting and related to assurance engagements, issued by various professional accounting bodies, which are founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

The firm applies Canadian Standard on Quality Management 1, *Quality Management for Firms that Perform Audits or Reviews of Financial Statements, or Other Assurance or Related Services Engagements*, which requires the firm to design, implement and operate a system of quality management, including policies or procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Practitioner's responsibilities

Our responsibility is to express an opinion on management's statement based on our procedures. We conducted our procedures in accordance with Canadian Standard on Assurance Engagements 3000, *Attestation Engagements Other than Audits or Reviews of Historical Financial Information*, set out in the CPA Canada Handbook – Assurance. This standard requires that we plan and perform our procedures to obtain reasonable assurance about whether, in all material respects, management's statement is fairly stated, and, accordingly, included:

- (1) obtaining an understanding of Entrust's network and certificate system security to meet the requirements so forth by the CA/Browser Forum;
- (2) testing and evaluating the operating effectiveness of the controls; and
- (3) performing such other procedures as we considered necessary in the circumstances.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

The relative effectiveness and significance of specific controls at Entrust and their effect on assessments of control risk for subscribers and relying parties are dependent on their interaction with the controls, and other factors present at individual subscriber and relying party locations. We have performed no procedures to evaluate the effectiveness of controls at individual subscriber and relying party locations.

Inherent limitations

There are inherent limitations in the effectiveness of any system of internal control, including the possibility of human error and the circumvention of controls. For example, because of their nature, controls may not prevent, or detect unauthorized



access to systems and information, or failure to comply with internal and external policies or requirements. Also, the projection to the future of any conclusions based on our findings is subject to the risk that controls may become ineffective.

Emphasis of Matters:

Without modifying our opinion, we noted the following matter during our procedures. We considered the nature of these matters in our risk assessment and in determining the nature, timing, and extent of our procedures. We performed additional procedures to understand the root cause, as well as the facts and circumstances.

#	Observation	Relevant WebTrust Authorities – Network Security
1	<p>As disclosed by Entrust management statement and publicly reported in Bugzilla 1968246, privileged access to Certificate Systems for one infrastructure user was not fully revoked within twenty-four (24) hours of termination on 17 April 2025. The user was identified during the quarterly user access review in May 2025, and privileged access was revoked on 21 May 2025. Entrust performed an exposure check and confirmed the privileged access was not exploited which has been independently assessed by Deloitte.</p> <p>In response, Entrust enhanced the access deprovisioning process as of May 30, 2025.</p> <p>Deloitte tested all trusted role terminations subject to the new process, between May 30, 2025, to September 17, 2025, and noted that access to Certificate Systems was removed appropriately and timely.</p>	<p>P2 - 2.12 The CA maintains controls to provide reasonable assurance that it disables all privileged access of an individual to Certificate Systems within twenty-four (24) hours, upon termination of the individual’s employment or contracting relationship with the CA or Delegated Third Party.</p>

Opinion

In our opinion, throughout the period March 1, 2025 to September 17, 2025, Entrust management’s statement, as referred to above, is fairly stated, in all material respects, in accordance with the [WebTrust Principles and Criteria for Certification Authorities– Network Security v1.7](#).

This report does not include any representation as to the quality of Entrust’s services beyond those covered by the [WebTrust Principles and Criteria for Certification Authorities – Network Security v1.7](#), nor the suitability of any of Entrust’s services for any customer’s intended purpose.

Use of the WebTrust Seal

Entrust’s use of the WebTrust for Certification Authorities – Network Security Seal constitutes a symbolic representation of the contents of this report, and it is not intended, nor should it be construed, to update this report or provide any additional assurance.

Deloitte LLP
Chartered Professional Accountants
Toronto, Ontario, Canada
November 21, 2025

ATTACHMENT A

LIST OF IN SCOPE CAs

Root CAs	
1.	Entrust.net Certification Authority (2048)
2.	Entrust Root Certification Authority
3.	Entrust Root Certification Authority - G2
4.	Entrust Root Certification Authority - G4
5.	Entrust Root Certification Authority – EC1
6.	Entrust Code Signing Root Certification Authority - CSBR1
7.	Entrust Digital Signing Root Certification Authority - DSR1
8.	Entrust Verified Mark Root Certification Authority - VMCR1
9.	Entrust 4K EV TLS Root CA - 2022
10.	Entrust P384 EV TLS Root CA - 2022
11.	Entrust 4K TLS Root CA - 2022
12.	Entrust P384 TLS Root CA - 2022
13.	Entrust SMIME Root CA - 2022
14.	AffirmTrust Commercial
15.	AffirmTrust Networking
16.	AffirmTrust Premium
17.	AffirmTrust Premium ECC
18.	AffirmTrust 4K TLS Root CA – 2022
Intermediate CAs	
19.	Entrust Certification Authority – AATL1
20.	Entrust Enterprise Intermediate CA - ICA1
Issuing CAs	
21.	AffirmTrust Certificate Authority – DV1
22.	AffirmTrust 4K TLS Certification Authority - DVTLS1
23.	Entrust Certification Authority – L1F
24.	Entrust Certification Authority – L1K
25.	Entrust 4K TLS Certification Authority - OVTLS1
26.	Entrust P384 TLS Certification Authority - OVTLS2
27.	CrowdStrike TLS CA 2022
28.	Siemens Issuing CA Internet Server 2020
29.	Namirial OV SSL CA 2023
30.	AffirmTrust Certificate Authority – OV1
31.	Entrust Certification Authority – L1E
32.	Entrust Certification Authority – L1J
33.	Entrust Certification Authority – L1M
34.	Entrust Certification Authority – L1N
35.	Entrust Certification Authority – ES QWAC2
36.	Entrust 4K TLS Certification Authority - EVTLS1
37.	Entrust P384 TLS Certification Authority - EVTLS2
38.	Namirial EV SSL CA 2023
39.	AffirmTrust Extended Validation CA – EV1
40.	AffirmTrust Extended Validation CA – EV2
41.	AffirmTrust Extended Validation CA – EV3
42.	AffirmTrust Extended Validation CA – EVEC1
43.	Entrust Code Signing CA – OVCS1
44.	Entrust Code Signing CA – OVCS2
45.	Entrust Extended Validation Code Signing CA – EVCS1
46.	Entrust Extended Validation Code Signing CA – EVCS2
47.	Entrust Class 1 Client CA - SHA256
48.	Entrust Class 2 Client CA
49.	Entrust Class 2 Client CA – C2CA2
50.	Entrust Personal Email Certification Authority - SMIME1
51.	Entrust Enterprise Email CA - SMIME2
52.	Entrust Certification Authority – ES QTS1
53.	Entrust Timestamping CA – TS1
54.	Entrust Timestamping CA – TS2
55.	Entrust Time Stamping CA – TS3
56.	Entrust Time Stamping CA - TS4



- 57. Entrust Verified Mark CA - VMC2
- 58. Entrust Class 3 Client CA - SHA256
- 59. Entrust Certification Authority - ES QSeal1

CA IDENTIFYING INFORMATION for in Scope CAs

CA #	Cert #	Note	Subject	Issuer	Serial Number	Key Type	Hash Type	Not Before	Not After	Revoked Date	Extended Key Usage	Subject Key Identifier	SHA256 Fingerprint
1	1	1,2	CN=Entrust.net Certification Authority (2048) OU=(c) 1999 Entrust.net Limited OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.) O=Entrust.net	CN=Entrust.net Certification Authority (2048) OU=(c) 1999 Entrust.net Limited OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.) O=Entrust.net	3863def8	RSA 2048-bits	RSA SHA-1	12/24/1999 17:50	7/24/2029 14:15			55e481d11180bed889b908a331f9a1240916b970	6DC47172E01C8C80B6F62580D895FE2B8AC9AD4F873801E0C10B9C837D21EB177
2	1	1,2	CN=Entrust Root Certification Authority OU=(c) 2006 Entrust, Inc. OU=www.entrust.net/CPS is incorporated by reference O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority OU=(c) 2006 Entrust, Inc. OU=www.entrust.net/CPS is incorporated by reference O=Entrust, Inc. C=US	456b5054	RSA 2048-bits	RSA SHA-1	11/27/2006 20:23	11/27/2026 20:53			6890e467a4a65380c78666a4f174b43fb84bd6d	73C176434F18C6D5ADF45B0E76E727287C8DE57616C1E6E6141A2B2CBC7D8E4C
3	1	1,2	CN=Entrust Root Certification Authority - G2 OU=(c) 2009 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - G2 OU=(c) 2009 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	4a538c28	RSA 2048-bits	RSA SHA-256	7/17/2009 17:25	12/17/2030 17:55			6a72267ad01eef7de73b6951d46c8d9f901266ab	43DF5774B03E7FEF5FE40D931A7BEDF1BB2E6B42738C4E6D3841103D3AA7F339
	2		CN=Entrust Root Certification Authority - G2 OU=(c) 2009 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority OU=(c) 2006 Entrust, Inc. OU=www.entrust.net/CPS is incorporated by reference O=Entrust, Inc. C=US	525c32e349f48525bc8d7810d7aabb67	RSA 2048-bits	RSA SHA-256	3/6/2024 16:00	11/26/2026 23:59			6a72267ad01eef7de73b6951d46c8d9f901266ab	65F0358FC93934CD5AAC43122F37948D7BD042D148E6FD88B2E65AA9AC399DDD
4	1	1,2	CN=Entrust Root Certification Authority - G4 OU=(c) 2015 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - G4 OU=(c) 2015 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	00d9b5437afa9390f00000005565ad58	RSA 4096-bits	RSA SHA-256	5/27/2015 11:11	12/27/2037 11:41			9f38c45623c339e8a0716ce8544ce4e83ab1bf67	DB3517D1F6732A2D5AB97C533EC70779EE3270A62FB4AC4238372460E6F01E88
5	1	1,2	CN=Entrust Root Certification Authority - EC1 OU=(c) 2012 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - EC1 OU=(c) 2012 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	00a68b7929000000050d091f9	EC 384-bits	ECDSA SHA-384	12/18/2012 15:25	12/18/2037 15:55			b763e71add8de908a65583a4e06a504165114249	02ED0E828C14DA45165C566791700D6451D7FB56F0B2A81D388EB070E56EDFF5
	2		CN=Entrust Root Certification Authority - EC1 OU=(c) 2012 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority OU=(c) 2006 Entrust, Inc. OU=www.entrust.net/CPS is incorporated by reference O=Entrust, Inc. C=US	008011196de613db16000000051d3575e	EC 384-bits	RSA SHA-256	6/10/2016 14:58	11/10/2026 15:28			b763e71add8de908a65583a4e06a504165114249	3FDE0D36E02686E8EBE2C28883607C8651DE10B06C1FCAD365E560F4EA2F3B03
6	1	1,2	CN=Entrust Code Signing Root Certification Authority - CSBR1 O=Entrust, Inc. C=US	CN=Entrust Code Signing Root Certification Authority - CSBR1 O=Entrust, Inc. C=US	7ff1a8f9f43ae876e2dc6ff5e433db2ee30a643	RSA 4096-bits	RSA SHA-512	5/7/2021 13:26	12/30/2040 13:26			82bad63d97ce9fcf71e89237affdb3b5693557cf	B80847FDA453BF6ED876CA7BC046A2481909E15B6ED376E665E7AD09F3864E71
	2		CN=Entrust Code Signing Root Certification Authority - CSBR1 O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - G2 OU=(c) 2009 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	4e40e43754ede68c000000051d3947f	RSA 4096-bits	RSA SHA-256	5/7/2021 15:43	11/7/2030 16:13		Code Signing, Time Stamping	82bad63d97ce9fcf71e89237affdb3b5693557cf	18DD9A467054C74A5AE46182843A6F4EC46D5E338D91ADF4E5980B50193FB94B

Note:
 1- Copy of the key was destroyed during Key Destruction Ceremony on September 4, 2025 or September 16, 2025
 2-Backup Key was transferred to Sectigo on August 14, 2025

CA #	Cert #	Note	Subject	Issuer	Serial Number	Key Type	Hash Type	Not Before	Not After	Revoked Date	Extended Key Usage	Subject Key Identifier	SHA256 Fingerprint
7	1	1,2	CN=Entrust Digital Signing Root Certification Authority - DSR1 O=Entrust, Inc. C=US	CN=Entrust Digital Signing Root Certification Authority - DSR1 O=Entrust, Inc. C=US	6c73c936b185e50b804d5bcec29f83d21a51c1a3	RSA 4096- bits	RSA SHA- 512	11/12/2021 18:28	12/30/2040 18:28			a6654181f25b87056addfd8a544e8f987bdc23b8	E874FE2531EAE4A4B6B62F37496BBAE90E1D8FC8CEDBEB00A182CFACDC7E61
	2		CN=Entrust Digital Signing Root Certification Authority - DSR1 O=Entrust, Inc. C=US	CN=Entrust.net Certification Authority (2048) OU=(c) 1999 Entrust.net Limited OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.) O=Entrust.net	3e52a4c23935756349c5a8820c03d47f	RSA 4096- bits	RSA SHA- 256	3/6/2024 15:40	7/23/2029 23:59			a6654181f25b87056addfd8a544e8f987bdc23b8	37C4596A91541642B4DD07AE28A6E968999EA95A057A8182695A33DFEB308C4D
8	1	1,2	CN=Entrust Verified Mark Root Certification Authority - VMCR1 O=Entrust, Inc. C=US	CN=Entrust Verified Mark Root Certification Authority - VMCR1 O=Entrust, Inc. C=US	743900bd5b07fc63d7e9150452c89bb701680463	RSA 4096- bits	RSA SHA- 512	5/7/2021 13:31	12/30/2040 13:31			7323567b2b7845809ab8c27ccca586398b2678c5	7831D95A47D42508CD5C9E6264F9096BAC19F04EB9B7C8BDD35FFFC71C189617
9	1	1,2	CN = Entrust 4K EV TLS Root CA - 2022 O = Entrust, Inc. C = US	CN = Entrust 4K EV TLS Root CA - 2022 O = Entrust, Inc. C = US	72429d8f40dfe46dafbe06ebb533194ce90d6c76	RSA 4096- bits	RSA SHA- 384	12/13/2022 16:35	12/7/2047 16:35			0bdd90d58fbb3f5cb60a0551a2482863c413041	647987D98D52645DA4D3DE3B80771A0CE0289B9285E6E86999882170744EC9AA
	2		CN = Entrust Root Certification Authority - G2 O=Entrust, Inc. C = US	CN = Entrust Root Certification Authority - G2 O=Entrust, Inc. C = US	ac9a58d8637568d2cdfddc1c7955cc	RSA 4096- bits	RSA SHA- 256	3/6/2024 15:31	12/6/2030 23:59	9/2/2025		0bdd90d58fbb3f5cb60a0551a2482863c413041	E821B11129110567F1607F0B0F368EC78D811418F0C48CC425450F63EB88095D
10	1	1	CN = Entrust P384 EV TLS Root CA - 2022 O = Entrust, Inc. C = US	CN = Entrust P384 EV TLS Root CA - 2022 O = Entrust, Inc. C = US	097558f5a16c16877bbd064ffd9ce483ba4b040b	EC 384- bits	ECDSA SHA-384	12/13/2022 16:46	12/7/2047 16:46			137210ae82580fc1389bbcb6a64c05ca8e8468bf	937EF8F12276B3C7A3F58E345D09A6EFF01F862F8D2794441CD84D511825FA0C
11	1	1	CN = Entrust 4K TLS Root CA - 2022 O = Entrust, Inc. C = US	CN = Entrust 4K TLS Root CA - 2022 O = Entrust, Inc. C = US	57262836aa751a000c16ba28cc86b590fd225ba	RSA 4096- bits	RSA SHA- 384	12/13/2022 16:26	12/7/2047 16:26			9440ea5affef4963019e09dfe03b803373122056	DD6C44B3940180530BE611207488B80F6056007665C1685EC286750EDC8DF129
12	1	1	CN = Entrust P384 TLS Root CA - 2022 O = Entrust, Inc. C = US	CN = Entrust P384 TLS Root CA - 2022 O = Entrust, Inc. C = US	453eef32daed9068218d5bea0e83d165042e0f31	EC 384- bits	ECDSA SHA-384	12/13/2022 16:41	12/7/2047 16:41			c42e807c5f709204864c9e52cb2b7c5076a8293	420332EF876EBE78F2AF5D28AAACDE24AAD0C10F8FFAAC469EFD7BD941929568
13	1	1,2	CN = Entrust SMIME Root CA - 2022 O = Entrust, Inc. C = US	CN = Entrust SMIME Root CA - 2022 O = Entrust, Inc. C = US	7da23cfefbbe8849c350f2a511e9b96bb71f8d80	RSA 4096- bits	RSA SHA- 384	12/13/2022 17:00	12/7/2047 17:00			94c8e8468d7f53170305441810ac65e06ea2950d	B7A41ED8096D62716BAD7C7F530942197A9E7E3175CE05D11D01E7AD6C12DCBA7
	2		CN = Entrust SMIME Root CA - 2022 O = Entrust, Inc. C = US	CN = Entrust Root Certification Authority - G2 O = Entrust, Inc. CN = US	58cbd5fa3076485c180ac1e25747447d	RSA 4096- bits	RSA SHA- 256	5/17/2023 19:22	12/7/2030 12:59			94c8e8468d7f53170305441810ac65e06ea2950d	E8A2BB3BDE53658E0BE83AAECC646A104B5C1A2CD03D4534FCFCF4BDA1533E0
14	1		CN = AffirmTrust Commercial O = AffirmTrust C = US	CN = AffirmTrust Commercial O = AffirmTrust C = US	7777062726a9b17c	RSA 2048- bits	RSA SHA- 256	1/29/2010 14:06	12/31/2030 14:06			9d93c6538b5ecaaf3f9f1e0fe59995bc24f6948f	0376AB1D54C5F9803CE4B2E201A0EE7EEF7B57B636E8A93C9B8D4860C96F5FA7
15	1		CN = AffirmTrust Networking O = AffirmTrust C = US	CN = AffirmTrust Networking O = AffirmTrust C = US	7c4f04391cd4992d	RSA 2048- bits	RSA SHA- 256	1/29/2010 14:08	12/31/2030 14:08			071fd2e79cdac26ea240b4b07a50105074c4c8bd	0A81EC5A929777F145904AF38D5D509F66B5E2C58FCDB53105880E17F3F0B41B
16	1		CN = AffirmTrust Premium O = AffirmTrust C = US	CN = AffirmTrust Networking O = AffirmTrust C = US	6d8c1446b1a60aee	RSA 2048- bits	RSA SHA- 256	1/29/2010 14:10	12/31/2030 14:10			9dc067a60c22d926f545aba665521127d845ac63	70A73F7F376B60074248904534B11482D5BF0E698ECC498DF5257EBF2E93B9A
17	1		CN = AffirmTrust Premium ECC O = AffirmTrust C = US	CN = AffirmTrust Premium ECC O = AffirmTrust C = US	7497258ac73f7a54	RSA 2048- bits	RSA SHA- 256	1/29/2010 14:20	12/31/2040 14:20			9aaf297ac011353526513000c36afe40d5aed63c	BD71FD6DA97E4CF62D1647ADD2581B07D79ADF8397EB4ECBA9C5E8488821423
18	1	1	CN = AffirmTrust 4K TLS Root CA - 2022 O = AffirmTrust C = CA	CN = AffirmTrust 4K TLS Root CA - 2022 O = AffirmTrust C = CA	4261723e9b00a227d3bd5871e2d5b404687473a5	RSA 2096- bits	RSA SHA- 256	12/13/2022 17:05	12/7/2047 17:05			07875af4076871d9661be264788037805cdef727	A7DE0F5A842167DD12FDA0F2080E732958888BEA71B2094EA0950945A482FC1
19	1		CN=Entrust Certification Authority - AATL1 O=Entrust, Inc. C=US	OU=(c) 2015 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	00c727f51f8f922b2020000005565d8ad	RSA 4096- bits	RSA SHA- 512	7/20/2020 15:46	12/20/2037 16:16	9/2/2025	1.3.6.1.4.1.311. 10.3.12, 1.2.840.113583. 1.1.5, E-mail Protection	63f184dd03bea39f64fa767a47c4567ec06da020	839F9B91C2E49218A66416DF181B984E9BE634D12A95483D98A6199FC0788D74

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20	1	1,2	CN=Entrust Enterprise Intermediate CA - ICA1 O=Entrust, Inc. C=US	CN=Entrust.net Certification Authority (2048) OU=(c) 1999 Entrust.net Limited OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.) O=Entrust.net	3eeb174d9b443ba9000000051ce1981	RSA 2048-bits	RSA SHA-256	5/7/2021 15:32	7/7/2029 16:02		TLS Web Client Authentication, E-mail Protection, Microsoft Smart card login, Microsoft Encrypted File System, 1.3.6.1.4.1.311.10.3.4.1, 1.3.6.1.4.1.311.67.1.1	c838d40a70dda357a8e596592d1313c920d5dcb3	C54D8B12C438725C2755B4AD81825F6975CBDA6C258A2BFBB8247A14F03BD22A
21	1		CN = AffirmTrust Certificate Authority - DV1 O = See www.affirmtrust.com/repository ON = AffirmTrust CN = CA	CN = AffirmTrust Commercial ON = AffirmTrust CN = US	6345009686538276405	RSA 2048-bits	RSA SHA-256	4/7/2017 15:10	12/2/2030 04:00	9/9/2025	TLS Web Server Authentication, TLS Web Client Authentication	33DF7A3E027996EBB60CC063FA75BF9222CD91FA	CA4389C89DDFC31BEC26C74B44A8498C58B2D838516FA01B14F1393629E58A40
	2		CN = AffirmTrust Certificate Authority - DV1 O = See www.affirmtrust.com/repository ON = AffirmTrust CN = CA	CN = AffirmTrust Commercial ON = AffirmTrust CN = US	62b4c3eba53918177f127a837b574f96	RSA 2048-bits	RSA SHA-256	3/21/2019 20:21	12/2/2030 04:00	9/9/2025	TLS Web Server Authentication, TLS Web Client Authentication	33DF7A3E027996EBB60CC063FA75BF9222CD91FA	4563B936E35A897576F5AEF1935D9BC7E9977841F0573BD2E16BCAC9534A6AF9
22	1	1	CN = AffirmTrust 4K TLS Certification Authority - DVTLS1 O = AffirmTrust C = CAS	CN = AffirmTrust 4K TLS Root CA - 2022 O = AffirmTrust C = CA	04e911e082864b911d97267aa3388c5a	RSA 4096-bits	SHA384	12/14/2022 18:09	12/29/2040 23:59		TLS Web Server Authentication, TLS Web Client Authentication	45c174f7f45d03320f133efb8da6179886f5c96	FB327FE14AB3FEC5C96D9169A8B536382B97B1B325543C3DCD8A10F8C431E103
23	1	1,2	CN=Entrust Certification Authority - L1F OU=(c) 2016 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - EC1 OU=(c) 2012 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	b601913d8553bafa0000000051d4c1f6	EC 384-bits	ECDSA SHA-384	4/5/2016 20:17	10/5/2037 20:47		TLS Web Server Authentication, TLS Web Client Authentication	2e62f014ee87cdb335033defe4b999ef3bb8a3c9	1835B0E482EA65536FC010E4BC13C060F65668165FBA97E2F542CE96CA6DFEFC
	2		CN=Entrust Certification Authority - L1F OU=(c) 2016 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - EC1 OU=(c) 2012 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	a25b1769bad80ad70000000051ce1941	EC 384-bits	RSA SHA-256	2/5/2021 16:34	7/5/2029 17:04		TLS Web Server Authentication, TLS Web Client Authentication	2e62f014ee87cdb335033defe4b999ef3bb8a3c9	0C5A09D88AEDF7D2D1DDE14DCCC2DB6EA959BCF6F010360D836C342C624D7E0E
24	1	1,2	CN=Entrust Certification Authority - L1K OU=(c) 2012 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - G2 OU=(c) 2009 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	79851D5CBC895C56D97FEF2D5CF3D6	RSA 2048-bits	RSA SHA-256	10/5/2015 19:13	12/5/2030 19:43			82a27074ddbc533fcf7bd4f7cd7fa760c60a4cbf	052C0174E806F9474AEC865129A04867F385087B631393B4D8A7F26B43733348
	2		CN=Entrust Certification Authority - L1K OU=(c) 2012 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - G2 OU=(c) 2009 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	0ee94cc30000000051d37785	RSA 2048-bits	RSA SHA-256	10/5/2015 19:13	12/5/2030 19:43			82a27074ddbc533fcf7bd4f7cd7fa760c60a4cbf	13EFB39A2F6654E8C67BD04F4C6D4C90C6CAB5091BCEDC73787F6B77D3D3FE7
	3		CN = Entrust Certification Authority - L1K OU = (c) 2012 Entrust, Inc. - for authorized use only OU = See www.entrust.net/legal-terms O = Entrust, Inc. C = US	CN = Entrust.net Certification Authority (2048) OU = (c) 1999 Entrust.net Limited OU = www.entrust.net/CPS_2048 incorp. by ref. (limits liab.) O = Entrust.net	2e0451ce5d2424c72b5d6576716506d8	RSA 2048-bits	RSA SHA-256	11/25/2022 21:19	7/23/2029 00:00		Server Authentication (1.3.6.1.5.5.7.3.1) Client Authentication (1.3.6.1.5.5.7.3.2)	82a27074ddbc533fcf7bd4f7cd7fa760c60a4cbf	7F4325CC24107A39441552F27FDC34185802482E164D1794AA415EF1E4206BA7

Note:

- 1- Copy of the key was destroyed during Key Destruction Ceremony on September 4, 2025 or September 16, 2025
- 2-Backup Key was transferred to Sectigo on August 14, 2025

CA #	Cert #	Note	Subject	Issuer	Serial Number	Key Type	Hash Type	Not Before	Not After	Revoked Date	Extended Key Usage	Subject Key Identifier	SHA256 Fingerprint
25	1	1	CN = Entrust 4K TLS Certification Authority - OV TLS1 O = Entrust, Inc. C = US	CN = Entrust 4K TLS Root CA - 2022 O = Entrust, Inc. C = US	68ca04736adceb10432a6bd6ef8a34	EC 384-bits	RSA SHA-256	12/14/2022 18:23	12/29/2040 23:59		Server Authentication (1.3.6.1.5.5.7.3.1) Client Authentication (1.3.6.1.5.5.7.3.2)	a80003c10185b8c0272aa9bc08acfad44abe51a5	9EC6CA44D6ADB5DAEFEC9D773787E3BB8E1243F5455341B8438A6776869333B
26	1	1	CN = Entrust P384 TLS Certification Authority - OV TLS2 O = Entrust, Inc. C = US	CN = Entrust P384 TLS Root CA - 2022 O = Entrust, Inc. C = US	68772973693c55320a742ff1433ca0a2	EC 384-bits	RSA SHA-256	12/14/2022 18:25	12/29/2040 23:59		Server Authentication (1.3.6.1.5.5.7.3.1) Client Authentication (1.3.6.1.5.5.7.3.2)	c25b7126ed58efa51419aa2ef60456546f9a39c9	2D8842F824321277291266B230ABC31DE13C1D48852D6C21C9B1007D5AC20681
27	1	1,2	CN = CrowdStrike TLS CA 2022 O = CrowdStrike, Inc. C = US	CN = Entrust Root Certification Authority - G2 OU = (c) 2009 Entrust, Inc. - for authorized use only OU = See www.entrust.net/legal-terms O = Entrust, Inc. C = US	309dc7b318912d0ecb7d1df27ab75cdf	RSA 2048-bits	RSA SHA-256	11/15/2022 16:50	12/6/2030 00:00:00			55eaa745b99af7b671311a31dfa176fe7692997a	2C4AD64B4E862D7D46424D9FA13EA9A974A62F7C4B608AE1A871424CC9A6873D
28	1		CN=Siemens Issuing CA Internet Server 2020 O=Siemens C=DE	CN=Entrust Root Certification Authority - G2 OU=(c) 2009 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	00fab27dfff80d09a0000000051d39440	RSA 2048-bits	RSA SHA-256	8/10/2020 14:11	11/10/2030 14:41	9/2/2025	TLS Web Server Authentication, TLS Web Client Authentication	c9a757cb86c96107c6c2b48665a91ec1cae1029b	A665007A05EFE1889D66A40DEECBC6C1A271E919006811FDB8DBD7E0675212D1
29	1	1,2	CN = Namirial OV SSL CA 2023 O = Namirial S.p.A C = IT	CN = Entrust Root Certification Authority - G2 OU = (c) 2009 Entrust, Inc. - for authorized use only OU = See www.entrust.net/legal-terms O = Entrust, Inc. C = US	17c236215a437f11aae022348b6b7f2d	RSA 2048-bits	RSA SHA-256	2/9/2023 20:09	12/7/2030 12:59		Server Authentication (1.3.6.1.5.5.7.3.1) Client Authentication (1.3.6.1.5.5.7.3.2)	9a9f6a5f8fe34fc102bed2f89c6b9d7c692d31e	F4E26BEB0279228D96D47B05DF744AE6CE6AAD88A3B757D249E83D22D27F4C6
30	1		CN AffirmTrust Certificate Authority – OV1 OU= See www.affirmtrust.com/repository ON= AffirmTrust C=CA	CN= AffirmTrust Commercial ON= AffirmTrust C=US	1764987999490089933	RSA 2048-bits	RSA SHA-256	11/29/2016 16:49	12/2/2030 04:00	9/2/2025		FE60C30DA4A29D214F7A784C62C5DB14FC3978C4	EA4EE2FAA57AE4B539B63977FE5B8205B6AFB32F7A73B2B363E4BE02CD8A91E9
	2		CN= AffirmTrust Certificate Authority – OV1 OU= See www.affirmtrust.com/repository ON= AffirmTrust C=CA	CN= AffirmTrust Commercial ON= AffirmTrust C=US	53f6a611092e528ed963f19149532204	RSA 2048-bits	RSA SHA-256	3/21/2019 20:25	12/2/2030 04:00	9/2/2025	TLS Web Server Authentication, TLS Web Client Authentication	FE60C30DA4A29D214F7A784C62C5DB14FC3978C4	B5FD6F800334F56503680999F8310B580B07268395D8B267005697AF7301C5E8
31	1		CN=Entrust Certification Authority - L1E OU=(c) 2009 Entrust, Inc. OU=www.entrust.net/rpa is incorporated by reference O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority OU=(c) 2006 Entrust, Inc. OU=www.entrust.net/CPS is incorporated by reference O=Entrust, Inc. C=US	008666b02ac1cb5440000000051d3589c	RSA 2048-bits	RSA SHA-256	6/19/2019 16:52	11/19/2026 17:22	9/2/2025	TLS Web Server Authentication, TLS Web Client Authentication	5b418ab2c443c1bdfc85441559de096adffb9a1	232F6367CF561E00C83E180A9FCA8546B3771FB450EBCB4A0526F8349C8CA139
32	1	1,2	CN=Entrust Certification Authority - L1J OU=(c) 2016 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - EC1 OU=(c) 2012 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	0a83d4803e7e9f510000000051d4c1f7	EC 384-bits	ECDSA SHA-384	4/5/2016 20:19	10/5/2037 20:49		TLS Web Server Authentication, TLS Web Client Authentication	c3f94503bec8f90b3c4535f3eb72ece7e8eb949b	3447B74B5E500A549983FA2CED73A5642E6AAEC78829546158437DF66D7435B8
33	1	1,2	CN=Entrust Certification Authority - L1M OU=(c) 2014 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - G2 OU=(c) 2009 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	61a1e7d20000000051d366a6	RSA 2048-bits	RSA SHA-256	12/15/2014 15:25	10/15/2030 15:55		TLS Web Client Authentication, TLS Web Server Authentication	c3f7d0b52a30adaf0d9121703954ddbc8970c73a	75C583F01FD1F51A2C447AB7C785D72E69FA9C472C08571E7EADF38EABAE70C
34	1		CN=Entrust Certification Authority - L1N OU=(c) 2014 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - G4 OU=(c) 2015 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	00abec77ff1b410c7000000005565d805	RSA 2048-bits	RSA SHA-256	11/22/2017 20:04	12/22/2030 20:3	9/2/2025	TLS Web Server Authentication, TLS Web Client Authentication	ee47d18571f1d2db73fbb3e6358771749400e95	B14D5089079C1D8F7649DB9A5D3CEFB1AAC06F6AFC49225C5BE2AA19FD41A35

Note:
1- Copy of the key was destroyed during Key Destruction Ceremony on September 4, 2025 or September 16, 2025
2-Backup Key was transferred to Sectigo on August 14, 2025

CA #	Cert #	Note	Subject	Issuer	Serial Number	Key Type	Hash Type	Not Before	Not After	Revoked Date	Extended Key Usage	Subject Key Identifier	SHA256 Fingerprint
35	1	1,2	CN=Entrust Certification Authority - ES QWAC2 ON=VATES-B81188047 O=Entrust EU, S.L. C=ES	CN=Entrust Root Certification Authority - G2 OU=(c) 2009 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	7a8872b868a359dab1b02ecf4c9718d	RSA 2048-bits	RSA SHA-256	11/16/2021 00:00	12/01/2030 00:00		TLS Web Server Authentication, TLS Web Client Authentication	41cfae2b1d633bc4cf5904479b65a2489df929c	C97F2F6E6A8ADB6ECFE4978F08CA8F6F0123A94784522B610ADF6AB51439FC62
36	1	1	CN = Entrust 4K TLS Certification Authority - EVTLS1 O = Entrust, Inc. C = US	CN = Entrust 4K EV TLS Root CA - 2022 O = Entrust, Inc. C = US	31ef81d7823f9a0f27b5d3085df41ec0	EC 384-bits	ECDSA SHA-384	12/14/2022 14:16	12/29/2040 19:59		Server Authentication (1.3.6.1.5.5.7.3.1) Client Authentication (1.3.6.1.5.5.7.3.2)	9930115c04d2448b259713c665d21616c9678792	AAC8B9394C3BB037662444235343371C59E951FF85A151B3FE19C288076E2B5
37	1	1	CN = Entrust P384 TLS Certification Authority - EVTLS2 O = Entrust, Inc. C = US	CN = Entrust P384 EV TLS Root CA - 2022 O = Entrust, Inc. C = US	2ec7f1bc3f43015ca8bea5edd3dc763	EC 384-bits	ECDSA SHA-384	12/14/2022 14:20	12/29/2040 19:59		Server Authentication (1.3.6.1.5.5.7.3.1) Client Authentication (1.3.6.1.5.5.7.3.2)	2cc1fad3279c77e73038c8c95ca43c02a36775c4	2426C77CFA12EBCDB68013225496C0E7AAD66D63597AE5EF9A0EB83830C23EC2
38	1		CN = Namirial EV SSL CA 2023 O = Namirial S.p.A C = IT	CN = Entrust Root Certification Authority - G2 OU = (c) 2009 Entrust, Inc. - for authorized use only OU = See www.entrust.net/legal-terms O = Entrust, Inc. C = US	7b0350a7b1d46885af4cc8c740a568b0	RSA 2048-bits	RSA SHA-256	2/9/2023 16:13	12/7/2030 8:59	9/2/2025	Server Authentication (1.3.6.1.5.5.7.3.1) Client Authentication (1.3.6.1.5.5.7.3.2)	eafeeb5847b83d9d2367bc88c677ab1338b8d52	366DD61ECE49EF68A7E0705915ECE7EE7BAA3C5D71B9363CD487E0FE0242A634
39	1		CN= AffirmTrust Extended Validation CA - EV1 OU= See www.affirmtrust.com/repository ON= AffirmTrust C= CA	CN= AffirmTrust Commercial ON= AffirmTrust C= US	4679446353986764952	RSA 2048-bits	RSA SHA-256	11/29/2016 04:00	12/2/2030 04:00	9/2/2025		DBEF65370BE547CB35D1901F03C1BC88C7A7EA80	CF88915CF996932C2B4CBE3039076D119BB728B4F31E49863A5022FE65489A12
	2		CN= AffirmTrust Extended Validation CA - EV1 OU= See www.affirmtrust.com/repository ON= AffirmTrust C= CA	CN= AffirmTrust Commercial ON= AffirmTrust C= US	1729551ed68e7fb1edf57300f35d7fd5	RSA 2048-bits	RSA SHA-256	3/21/2019 20:27	12/2/2030 04:00	9/2/2025		DBEF65370BE547CB35D1901F03C1BC88C7A7EA80	ED3C991466CBC45BFD1DA281028F9587B8219523647E0CA1B47F2C527D2920F
40	1		CN= AffirmTrust Extended Validation CA - EV2 OU= See www.affirmtrust.com/repository ON= AffirmTrust C= CA	CN= AffirmTrust Premium ON= AffirmTrust C= US	5371c8eb0784fd5108e5d4f3e323ec46	RSA 2048-bits	RSA SHA-256	3/21/2019 20:46	12/2/2030 04:00	9/2/2025		737C9A38683C517C4108FEA11F2A1EB461DBCDC3C	9DF77488C4B74AC32E3CEC4C643D001D5C3B8AFA4001FFD193DCA10C8BE5CB3A
41	1		CN= AffirmTrust Extended Validation CA - EV3 OU= See www.affirmtrust.com/repository ON= AffirmTrust C= CA	CN= AffirmTrust Networking ON= AffirmTrust C= US	3424a1ecf8f0a35fe746b7011c43e844	RSA 2048-bits	RSA SHA-256	3/21/2019 20:46	12/2/2030 04:00	9/2/2025		791EB1C917C71EACB1C714D7C3E87FBCB9509B15	8700BA49AF4D19E72F815A2DAC3C213BA44C319FA7DA92772B3682E128781093
42	1		CN= AffirmTrust Extended Validation CA - EV EC1 OU= See www.affirmtrust.com/repository ON= AffirmTrust C= CA	CN= AffirmTrust Premium ECC ON= AffirmTrust C= US	0202a584c134064dc9f32d207ea37298	RSA 2048-bits	RSA SHA-256	3/21/2019 20:55	12/2/2030 04:00	9/2/2025		C6908C028D75DE3BE3B9C2ED5657D2A1060EEES	CDE23A52303CA67A4BBCC9582FF5C9203AA98CB0F387139308CE2289506A2
43	1	1,2	CN=Entrust Code Signing CA - OVCS1 OU=(c) 2015 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - G2 OU=(c) 2009 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	7ab8c4fc000000051d373d4	RSA 2048-bits	RSA SHA-256	6/9/2015 18:00	6/9/2025 18:33		Code Signing	7e1a1f1a11745c64c90c1f9401abfd81642ea12c	7FBA43A4CCBB37B1CCC2DD11CE0C911DA3A2917B0CA0E846056854EF464C50C4
	2		CN=Entrust Code Signing CA - OVCS1 OU=(c) 2015 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - G2 OU=(c) 2009 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	43c10b1c000000051d373da	RSA 2048-bits	RSA SHA-256	6/10/2015 13:46	11/10/2030 14:16		Code Signing	7e1a1f1a11745c64c90c1f9401abfd81642ea12c	CC5B7A0E5D6771BA348D3D763752F0667026B3531C5396EDBE24ADCE93215723
44	1	1,2	CN=Entrust Code Signing CA - OVCS2 O=Entrust, Inc. C=US	CN=Entrust Code Signing Root Certification Authority - CSBR1 O=Entrust, Inc. C=US	71ef574af3554c35a2c69f66f4b6bcd	RSA 4096-bits	RSA SHA-512	5/7/2021 19:2	12/29/2040 23:59		Code Signing	ef9fba79b073f2251e789c03529c1b5384de8ded	95F843046BAC035572A3BA1B821DF8B759467F58512DDFA8A72F0799447D6368
45	1	1,2	CN=Entrust Extended Validation Code Signing CA - EVCS1 OU=(c) 2015 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - G2 OU=(c) 2009 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	417ace39000000051d373bb	RSA 2048-bits	RSA SHA-256	6/9/2015 17:54	6/9/2025 18:24		Code Signing	2a0af322c292021766ab1ac8c3caf938e0e6ba2	578C151D924C5A43B57B6433A58A93885F773B4631FDECB85C9FC3545529F274

Note:
1- Copy of the key was destroyed during Key Destruction Ceremony on September 4, 2025 or September 16, 2025
2-Backup Key was transferred to Sectigo on August 14, 2025

CA #	Cert #	Note	Subject	Issuer	Serial Number	Key Type	Hash Type	Not Before	Not After	Revoked Date	Extended Key Usage	Subject Key Identifier	SHA256 Fingerprint
	2		CN=Entrust Extended Validation Code Signing CA - EVCS1 OU=(c) 2015 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - G2 OU=(c) 2009 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	00d9d6b82000000051d373d8	RSA 2048-bits	RSA SHA-256	6/10/2015 13:39	6/10/2025 14:09		Code Signing	2a0af322c292021766ab1ac8c3caf938e0e6ba2	091C6319936F0CAC4C7B5E027DCCA2B2A2AF4561EA2C71E650C1E3FB905FD0
	3		CN=Entrust Extended Validation Code Signing CA - EVCS1 OU=(c) 2015 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - G2 OU=(c) 2009 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	008782526000000051d373d9	RSA 2048-bits	RSA SHA-256	6/10/2015 13:42	11/10/2030 14:12		Code Signing	2a0af322c292021766ab1ac8c3caf938e0e6ba2	D04D8927C663A8C853D54716DD60C2A4B2FEF9C3AE18FB250447FC5D7771E57
46	1	1,2	CN=Entrust Extended Validation Code Signing CA - EVCS2 O=Entrust, Inc. C=US	CN=Entrust Code Signing Root Certification Authority - CSBR1 O=Entrust, Inc. C=US	35afb77b9d341f6afc8f8446ab31352b	RSA 4096-bits	RSA SHA-512	5/7/2021 19:19	12/29/2040 23:59		Code Signing	ce894f8251aa15a28462ca312361d261fbf8e78	6510DC50A0017DC438C2A85D738F55858286C25361884F3882E207A51F4ED152
47	1	1,2	CN=Entrust Class 1 Client CA - SHA256 OU=(c) 2015 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust Root Certification Authority - G2 OU=(c) 2009 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	6e61669872bc9c30000000051d3931e	RSA 2048-bits	RSA SHA-256	4/16/2019 15:35	11/16/2030 16:05		TLS Web Client Authentication, E-mail Protection	e249b9ec25deb70cdee550185b48cc0c8e15f2a6	C6E9E993C258872124AAD3C9C06886EF23576155F310B305733361E20B17C943
48	1	1,2	CN=Entrust Class 2 Client CA OU=(c) 2010 Entrust, Inc. OU=www.entrust.net/CPS is incorporated by reference O=Entrust, Inc. C=US	CN=Entrust.net Certification Authority (2048) OU=(c) 1999 Entrust.net Limited OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.) O=Entrust.net	00bc4d843035b759f000000051ce1709	RSA 2048-bits	RSA SHA-256	6/20/2017 20:34	12/20/2028 21:04		E-mail Protection, TLS Web Client Authentication	0991a5bae9f22e2a75dfcd7efe77caf2de6b9b24	95AD94E88F5B8604E40E5FFF36B0D348E46C1D58A06C0E735B72AA396735C415
	2		CN=Entrust Class 2 Client CA OU=(c) 2010 Entrust, Inc. OU=www.entrust.net/CPS is incorporated by reference O=Entrust, Inc. C=US	CN=Entrust.net Certification Authority (2048) OU=(c) 1999 Entrust.net Limited OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.) O=Entrust.net	00af1c04b2ac8ff9b000000051ce18e3	RSA 2048-bits	RSA SHA-256	7/29/2020 15:48	6/29/2029 16:18		E-mail Protection, TLS Web Client Authentication	0991a5bae9f22e2a75dfcd7efe77caf2de6b9b24	1A20FEF46482A98BAC6F6C7397C017310AC7F878495438BC7A7DE9035C246679
49	1	1,2	CN=Entrust Class 2 Client CA - C2CA2 O=Entrust, Inc. C=US	CN=Entrust.net Certification Authority (2048) OU=(c) 1999 Entrust.net Limited OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.) O=Entrust.net	0088068b45c3fdd464000000051ce1961	RSA 2048-bits	RSA SHA-256	3/16/2021 14:22	7/16/2029 14:52		TLS Web Client Authentication, E-mail Protection	a2714ad5c264652f8dce2ae2c1b6e70dd0f932e4	B14CF550D8F573D93E90963C32A85F851C983C98164F54D78915F6358C954F0E
50	1	1,2	CN = Entrust Personal Email Certification Authority - SMIME1 O = Entrust, Inc. C = US	CN = Entrust SMIME Root CA - 2022 O = Entrust, Inc. C = US	1bb7bc5a6a4f06be4f716105ecd2a74	RSA 4096-bits	SHA-384	12/14/2022 18:31	12/29/2040 23:59		E-mail Protection, TLS Web Client Authentication	03219B5F18632EC87EF9AEDAD9179F6C91B8360	97E229CD78B38BD7B74AC431FA57E294CBA35E8238293DEDE04B20B218D92BA
51	1	1,2	CN = Entrust Enterprise Email CA - SMIME2 O = Entrust, Inc. C = US	CN = Entrust SMIME Root CA - 2022 O = Entrust, Inc. C = US	1ab5936d245a2fe43421c2ef6513e3f3	RSA 4096-bits	SHA-384	6/26/2024 16:05	12/29/2040 23:59		E-mail Protection, TLS Web Client Authentication	E08815F1C58A919DBF95E8E67AD71CD0780F87F	D9F628050929FC422B1FCB73C11496923D7DB0E155769A134313C0E5E81FB2A8
52	1	1,2	CN = Entrust Certification Authority – ES QTS1 OrganizationIdentifier = VATES-B81188047 O = Entrust EU, S.L. C = ES	CN = Entrust Digital Signing Root Certification Authority – DSR1 O = Entrust, Inc. C = US	10b5a317770d5c645606941116538cdc	RSA 4096-bits	RSA SHA-256	10/3/2022 11:12	12/28/2040 20:00		Time Stamping (1.3.6.1.5.5.7.3.8)	696382cac2f1119a714332858bae37ca9676be80	253F463FB19E06D188A1F81AB6A3CA78C9352B08DC94DD74CF05336809363812
53	1	1,2	CN=Entrust TimeStamping CA - TS1 OU=(c) 2015 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust.net Certification Authority (2048)s OU=(c) 1999 Entrust.net Limited OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.) O=Entrust.net	58da13ff0000000051ce0df7	RSA 2048-bits	RSA SHA-256	7/22/2015 19:02	6/22/2029 19:32		Time Stamping	c3c271d27bd76805ae3b399b34250c6203c75768	44DFCD2C573110E74BF4E85903595F660650ED925B7306542C54E87396671F03
54	1	1,2	CN=Entrust Time Stamping CA - TS2 O=Entrust, Inc. C=US	CN=Entrust Code Signing Root Certification Authority - CSBR1 O=Entrust, Inc. C=US	25cb2bf329ca107f1ea9ba8885d49d3b	RSA 4096-bits	RSA SHA-512	5/7/2021 19:22	12/29/2040 23:59		Time Stamping	260ff0c448081bccdd91f554546b3b3fc99f108	21E81685B35295589ED48F8969BD2E4F95CFB85ED1260CF687FA70A035D0028F
55	1		CN = Entrust Time Stamping CA – TS3 O = Entrust C = US	CN=Entrust Digital Signing Root Certification Authority - DSR1 O=Entrust, Inc. C=US	3408caf88bab2551c998e96caf61b9b6	RSA 4096-bits	RSA SHA-384	1/22/2025 15:07	12/29/2040 23:59	9/2/2025	Time Stamping	0F5327BD8B991DEBF2F978D14CFBECF9F573D9EA	ACBCF68556719222C02B594792FE757BFC14BFDAB2C0C425B9345D546DA556B
56	1		CN = Entrust Time Stamping CA - TS4 O = Entrust C = US	CN=Entrust Code Signing Root Certification Authority - CSBR1 O=Entrust, Inc. C=US	29a427b69f9b74ac2f799250ed090d61	RSA 4096-bits	SHA-512 with RSA	1/22/2025 15:09	12/29/2040 23:59	9/2/2025	Time Stamping	24D2F416FE99F21232AC594D4247EBE641974B7	E46CD7BE45E1519532C06012B6785DF8512CCFF0CC9AD7E850606E185330F2E7
57	1	1,2	CN=Entrust Verified Mark CA - VMC2 O=Entrust, Inc. C=US	CN=Entrust Verified Mark Root Certification Authority - VMCR1 O=Entrust, Inc. C=US	699d8fd758c2c39c1e53d1aa1476d1e6	RSA 4096-bits	RSA SHA-512	5/7/2021 19:23	12/19/2040 23:59		1.3.6.1.5.7.3.3.1	efbc3cb4af3ad045e7654dfc76478e92d1d743f	C2695048491DBF451A695B953711ADC5CD70975B5FCA1E181EBBD2172CB07E0C
58	1	1,2	CN=Entrust Class 3 Client CA - SHA256 OU=(c) 2015 Entrust, Inc. - for authorized use only OU=See www.entrust.net/legal-terms O=Entrust, Inc. C=US	CN=Entrust.net Certification Authority (2048) OU=(c) 1999 Entrust.net Limited OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.) O=Entrust.net	55161515000000051ce160e	RSA 2048-bits	RSA SHA-256	2/25/2016 18:08	6/25/2029 18:38		TLS Web Client Authentication, E-mail Protection, 1.3.6.1.4.1.311.10.3.12, 2.16.840.1.1140.27.40.11	069f6f4ea2294e0fcae17bfb69846efadbb83b72	33857338361ECFC4858DDFF6B9EF6273E3DB856A89CEA1C0E2C65925D1C87978
59	1	1,2	CN=Entrust Certification Authority - ES QSeal1 C=ES O=Entrust Datacard Europe, S.L. organizationIdentifier=VATES-B81188047	CN=Entrust Certification Authority - AATL1 C=US O=Entrust, Inc.	13ee348e492f8dd6b5c49cf073f714ab	RSA 4096-bits	RSA SHA-512	7/27/2020 14:39	12/19/2037 23:59		E-mail Protection, 1.3.6.1.4.1.311.10.3.12, 1.2.840.113583.1.1.5	5680152395717fe72d90d0cd063a4f67637d3d75	1701DE38124C4458F32B88AE7E62AC15876C427A3AD3BBAE8FD1479FF00030F3

Note:
1- Copy of the key was destroyed during Key Destruction Ceremony on September 4, 2025 or September 16, 2025
2-Backup Key was transferred to Sectigo on August 14, 2025

ATTACHMENT B

LIST OF ENTRUST CERTIFICATION PRACTICE STATEMENTS

CPS Name	Version	Date
Entrust Certificate Services Certification Practice Statement	3.29	February 21, 2025
AffirmTrust Certification Practice Statement	3.18	January 15, 2025



ENTRUST MANAGEMENT'S STATEMENT

Entrust Limited ("Entrust") operates the Certification Authority ("CA") services as enumerated in [Attachment A](#), and provides CA services.

The management of Entrust is responsible for establishing and maintaining effective controls over its CA operations, including its network and certificate security system controls. These controls contain monitoring mechanisms, and actions are taken to correct deficiencies identified.

There are inherent limitations in any controls, including the possibility of human error, and the circumvention or overriding of controls. Accordingly, even effective controls can only provide reasonable assurance with respect to Entrust's Certification Authority operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

Entrust management has assessed its controls over its CA services. Based on that assessment, in Entrust management's opinion, in providing its Certification Authority (CA) services at Ottawa, Ontario, Canada and Toronto, Ontario, Canada, throughout the period March 1, 2025 to September 17, 2025, for its CAs as enumerated in [Attachment A](#), Entrust has maintained effective controls to provide reasonable assurance that it meets the Network and Certificate System Security Requirements as set forth by the CA/Browser Forum in accordance with the [WebTrust Principles and Criteria for Certification Authorities – Network Security – Version 1.7](#).

Entrust management has also reported the following 'bug' on Mozilla's Bugzilla reporting system:

Bug ID	Summary	Opened	Closed
1968246	Incomplete privileged access removal within 24 hours	5/23/2025	7/01/2025

In response, Entrust enhanced the access deprovisioning process as of May 30, 2025.

Jim Trovato
Director, Product Compliance
November 21, 2025

Signed by:
Jim Trovato
89D32B44D9C945B...



ATTACHMENT A

LIST OF IN SCOPE CAs

Root CAs	
1.	Entrust.net Certification Authority (2048)
2.	Entrust Root Certification Authority
3.	Entrust Root Certification Authority - G2
4.	Entrust Root Certification Authority - G4
5.	Entrust Root Certification Authority – EC1
6.	Entrust Code Signing Root Certification Authority - CSBR1
7.	Entrust Digital Signing Root Certification Authority - DSR1
8.	Entrust Verified Mark Root Certification Authority - VMCR1
9.	Entrust 4K EV TLS Root CA - 2022
10.	Entrust P384 EV TLS Root CA - 2022
11.	Entrust 4K TLS Root CA - 2022
12.	Entrust P384 TLS Root CA - 2022
13.	Entrust SMIME Root CA - 2022
14.	AffirmTrust Commercial
15.	AffirmTrust Networking
16.	AffirmTrust Premium
17.	AffirmTrust Premium ECC
18.	AffirmTrust 4K TLS Root CA – 2022
Intermediate CAs	
19.	Entrust Certification Authority – AATL1
20.	Entrust Enterprise Intermediate CA - ICA1
Issuing CAs	
21.	AffirmTrust Certificate Authority – DV1
22.	AffirmTrust 4K TLS Certification Authority - DVTLS1
23.	Entrust Certification Authority – L1F
24.	Entrust Certification Authority – L1K
25.	Entrust 4K TLS Certification Authority - OVTLS1
26.	Entrust P384 TLS Certification Authority - OVTLS2
27.	CrowdStrike TLS CA 2022
28.	Siemens Issuing CA Internet Server 2020
29.	Namirial OV SSL CA 2023
30.	AffirmTrust Certificate Authority – OV1
31.	Entrust Certification Authority – L1E
32.	Entrust Certification Authority – L1J
33.	Entrust Certification Authority – L1M
34.	Entrust Certification Authority – L1N
35.	Entrust Certification Authority – ES QWAC2
36.	Entrust 4K TLS Certification Authority - EVTLS1
37.	Entrust P384 TLS Certification Authority - EVTLS2
38.	Namirial EV SSL CA 2023
39.	AffirmTrust Extended Validation CA – EV1
40.	AffirmTrust Extended Validation CA – EV2
41.	AffirmTrust Extended Validation CA – EV3
42.	AffirmTrust Extended Validation CA – EVEC1
43.	Entrust Code Signing CA – OVCS1
44.	Entrust Code Signing CA – OVCS2
45.	Entrust Extended Validation Code Signing CA – EVCS1
46.	Entrust Extended Validation Code Signing CA – EVCS2
47.	Entrust Class 1 Client CA - SHA256
48.	Entrust Class 2 Client CA



49. Entrust Class 2 Client CA – C2CA2
50. Entrust Personal Email Certification Authority - SMIME1
51. Entrust Enterprise Email CA - SMIME2
52. Entrust Certification Authority – ES QTS1
53. Entrust Timestamping CA – TS1
54. Entrust Timestamping CA – TS2
55. Entrust Time Stamping CA – TS3
56. Entrust Time Stamping CA - TS4
57. Entrust Verified Mark CA - VMC2
58. Entrust Class 3 Client CA - SHA256
59. Entrust Certification Authority - ES QSeal1



ATTACHMENT B

LIST OF ENTRUST CERTIFICATION PRACTICE STATEMENTS

CPS Name	Version	Date
Entrust Certificate Services Certification Practice Statement	3.29	February 21, 2025
AffirmTrust Certification Practice Statement	3.18	January 15, 2025