

INDEPENDENT ASSURANCE REPORT

To the management of Entrust Corporation (“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 1 March 2022 to 28 February 2023 (the “Period”) for its CAs as enumerated in [Attachment A](#), Entrust has:

- disclosed its extended validation SSL (“EV SSL”) certificate lifecycle management business practices in its Certification Practice Statements as enumerated in [Attachment B](#), including its commitment to provide EV SSL certificates in conformity with the CA/Browser Forum Guidelines on the Entrust website, and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and EV SSL certificates it manages is established and protected throughout their lifecycles; and
 - EV SSL subscriber information is properly authenticated (for the registration activities performed by Entrust)

in accordance with the [WebTrust Principles and Criteria for Certification Authorities – Extended Validation SSL v1.7.8](#).

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 – Extended Validation SSL v1.7.8.

Our independence and quality control

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 Control 1, *Quality Control for Firms that Perform Audits and Reviews of Financial Statements, and Other Assurance Engagements*, and accordingly maintains a comprehensive system of quality control including documented policies and 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 EV SSL certificate lifecycle management business practices, including its relevant controls over the issuance, renewal, and revocation of EV SSL certificates;
- (2) selectively testing transactions executed in accordance with disclosed EV SSL certificate lifecycle management practices;
- (3) testing and evaluating the operating effectiveness of the controls; and
- (4) 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.



Relative effectiveness of controls

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, controls may not prevent, or detect and correct, error, fraud, unauthorised access to systems and information, or failure to comply with internal and external policies or requirements. Also, the projection of any conclusions based on our findings to future periods is subject to the risk that changes may alter the validity of such conclusions.

Emphasis of matter

Without modifying our opinion, we noted the following other matters during our procedures:

Matter topic	Matter description
1 Mozilla 'bug' responses	As described in management's statement, management has reported or responded to certain 'bugs' on Mozilla's Bugzilla reporting system. Management's statement contains information on their outcome or resolution.
2 CAs not issuing EV SSL certificates during the Period	The CA#17 to 21 in Attachment A have not issued any EV SSL certificates during the Period.

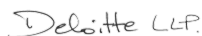
Practitioner's opinion

In our opinion, throughout the period 1 March 2022 to 28 February 2023, 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 – Extended Validation SSL v1.7.8.

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 – Extended Validation SSL v1.7.8, 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 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
18th May 2023, except as to narrative in Topic 2 in emphasis of matter table, which is as of 27th June 2023



ATTACHMENT A

LIST OF IN SCOPE CAs

Root CAs
<ol style="list-style-type: none">1. Entrust.net Certification Authority (2048)2. Entrust Root Certification Authority – EV Root3. Entrust Root Certification Authority – G24. Entrust Root Certification Authority – G45. Entrust Root Certification Authority – EC16. Entrust Root Certification Authority – 4K EVTLSR 20227. Entrust Root Certification Authority – P384 EVTLSR 2022
EV SSL Issuing CAs
<ol style="list-style-type: none">8. Entrust Certification Authority – L1E9. Entrust Certification Authority – L1J10. Entrust Certification Authority – L1M11. Entrust Certification Authority – L1N12. Entrust Certification Authority - EVTLS113. Entrust Certification Authority - EVTLS214. Entrust Certification Authority - Namirial EV SSL
Qualified Certificate EV SSL Issuing CAs
<ol style="list-style-type: none">15. Entrust Certification Authority - QTSP116. Entrust Certification Authority - ES QWAC2
CAs not issuing EV SSL certificates during the Period
<ol style="list-style-type: none">17. Entrust Certification Authority – L1F18. Entrust Certification Authority – L1K19. Entrust Certification Authority – CrowdStrike TLS CA 202220. Siemens 202021. Namirial OV SSL CA 2023



CA IDENTIFYING INFORMATION

CA #	Cert #	Subject	Issuer	Serial Number	Key Type	Hash Type	Not Before	Not After	Revoked Date	Extended Key Usage	Subject Key Identifier	SHA256 Fingerprint
1	1	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	1999-12-24 17:50:51	2029-07-24 14:15:12			55e481d11180bed889b908a331f9a1240916b970	6dc47172e01c9cb0bf62580d895fe2b8ac9ad4f873801e0c10b9c837d21eb177
2	1	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	2006-11-27 20:23:42	2026-11-27 20:53:42			6890e467a4a65380c78666a4f1f74b43fb84bd6d	73c176434f1bc6d5adf45b0e76e727287c8de57616c1e6e6141a2b2cbc7d8e4c
3	1	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	2009-07-07 17:25:54	2030-12-07 17:55:54			6a72267ad01eef7de73b6951d46c8d9f901266ab	43df5774b03e7fe5fe40d931a7bedf1bb2e6b42738c4e6d3841103d3aa7f339
3	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	51d33f09	RSA 2048-bits	RSA SHA-1	2014-09-12 17:28:27	2024-09-13 03:12:02			6a72267ad01eef7de73b6951d46c8d9f901266ab	cbce622d06f9d2c093fad75cebb7852ef553ffff146ad522ab321b3a4b2bd8f8
3	3	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	51d33f24	RSA 2048-bits	RSA SHA-1	2014-09-12 19:23:57	2024-09-13 03:12:23			6a72267ad01eef7de73b6951d46c8d9f901266ab	16296e3bef9a64cfe3509f36d700a5cd61cf938ec3a955bf36d17d97e16e8d
3	4	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	51d34044	RSA 2048-bits	RSA SHA-256	2014-09-22 17:14:57	2024-09-23 01:31:53			6a72267ad01eef7de73b6951d46c8d9f901266ab	6b143c2005d5539cc22eab5f772db2a9fe87467feffa07fcfa9f7d28274ca7a
4	1	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	00d9b5437fafa939f0f00000005565ad58	RSA 4096-bits	RSA SHA-256	2015-05-27 11:11:16	2037-12-27 11:41:16			9f38c45623c339e8a0716ce8544ce4e83ab1bf67	db3517d1f6732a2d5ab97c533ec70779ee3270a62fb4ac4238372460e6f01e88
5	1	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	00a68b79290000000050d091f9	EC 384-bits	ECDSA SHA-384	2012-12-18 15:25:36	2037-12-18 15:55:36			b763e71add8de908a65583a4e06a504165114249	02ed0eb28c14da45165c566791700d6451d7fb56f0b2ab1d3b8eb070e56edff5
5	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	008011196de613db160000000051d3575e	EC 384-bits	RSA SHA-256	2016-06-10 14:58:55	2026-11-10 15:28:55			b763e71add8de908a65583a4e06a504165114249	3fde0d36e026b6e8be2c28883607c8651de10bd6c1fad365e560f4ea2f3b03
6	1	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	2022-12-13 12:35:08	2047-12-07 12:35:08			0bdd90d58fb3f5c5bd60a0551a2482863c413041	647987D98D52645DA4D3DE3B80771A0CE02B9B9285E6E8699882170744EC9AA
7	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	2022-12-13 12:46:44	2047-12-7 12:46:44			137210ae82580fc1389bbcb6a64c05ca8e8468bf	937EF8F12276B3C7A3F58E345D09A6EFF01F862F8D2794441CD84D511825FA0C
8	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	008666b02ac1cb54400000000051d3589c	RSA 2048-bits	RSA SHA-256	2019-06-19 16:52:08	2026-11-19 17:22:08		TLS Web Server Authentication, TLS Web Client Authentication	5b418ab2c443c1bdfbc85441559de096adff9a1	232f6367cf561e00c83e180a9fca8546b3771fb450ebcb4a0526f8349c8ca139
9	1	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	2016-04-05 20:19:54	2037-10-05 20:49:54		TLS Web Server Authentication, TLS Web Client Authentication	c3f94503bec8f90b3c4535f3eb72ece7e8eb949b	3447b74b5e500a549983fa2ced73a56426a6aec78829546158437df66d7435b8
10	1	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 OU=(c) 2006 Entrust, Inc. OU=www.entrust.net/CPS is incorporated by reference O=Entrust, Inc. C=US	51d346e1	RSA 2048-bits	RSA SHA-256	2014-11-18 20:59:32	2024-11-19 06:33:02		TLS Web Client Authentication, TLS Web Server Authentication	c3f7d0b52a30adaf0d9121703954ddbc8970c73a	ca290389e0d8c62a4083f628a39f52fe3f38b73199cfa7c0372378a440fb6a
10	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	2014-12-15 15:25:03	2030-10-15 15:55:03		TLS Web Client Authentication, TLS Web Server Authentication	c3f7d0b52a30adaf0d9121703954ddbc8970c73a	75c5b3f01fd1f51a2c447ab7c785d72e69fa9c472c08571e7eadf3b8eabae70c



CA #	Cert #	Subject	Issuer	Serial Number	Key Type	Hash Type	Not Before	Not After	Revoked Date	Extended Key Usage	Subject Key Identifier	SHA256 Fingerprint
11	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	00abec77ff1b410c0700000005565d805	RSA 2048-bits	RSA SHA-256	2017-11-22 20:04:20	2030-12-22 20:34:20		TLS Web Server Authentication, TLS Web Client Authentication	ee47d18571f1fd2db73fbb3e6358771749400e95	b14d5089079c1d8f7649db9a5d3cefb1aac06f66afc49225c5be2aa19fd41a35
12	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	2022-12-14 14:16:26	2040-12-29 19:59:59		Server Authentication (1.3.6.1.5.5.7.3.1) Client Authentication (1.3.6.1.5.5.7.3.2)	9930115c04d2448b259713c665d21616c9678792	AAC8B9394C3BB0376622444235343371C59E951FF85A151B3FE19C288076E2B5
13	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	2ecf71fbc3f43015ca8bea5edd3dc763	EC 384-bits	ECDSA SHA-384	2022-12-14 14:20:13	2040-12-29 19:59:59		Server Authentication (1.3.6.1.5.5.7.3.1) Client Authentication (1.3.6.1.5.5.7.3.2)	2cc1fad3279c77e73038c8c95ca43c02a36775c4	2426c77CFA12EBCDB68013225496C0E7AAD66D63597AE5EF9A0EB8380C23EC2
14	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	2023-02-09 16:13:06	2030-12-07 8:59:59		Server Authentication (1.3.6.1.5.5.7.3.1) Client Authentication (1.3.6.1.5.5.7.3.2)	eafee5847b833d9d2367bc88c677ab1338b8d52	366dd61ece49ef68a7e0705915ece7ee7baa3c5d71b9363cd487e0fe0242a634
15	1	C=ES O=Entrust Datacard Europe S.L. organizationIdentifier=VATES-B81188047 CN=Entrust Certification Authority - QTSF1	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	009c6cf695700c6000000000051d393a6	RSA 2048-bits	RSA SHA-256	2019-07-26 18:31:45	2030-11-26 19:01:45		TLS Web Server Authentication, TLS Web Client Authentication	1cad3f9cd72d2219a19c4be9daf12a33f7fba0d	681ebc1822b079b97e0404e4687d9b6c0c0892c820f55738a282aae62529bdd8
16	1	CN=Entrust Certification Authority - ES QWAC2 organizationIdentifier=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	7a8872b868a359dab1b02ecf4fc9718d	RSA 2048-bits	RSA SHA-256	2021-11-16 00:00:00	2030-12-01 00:00:00		TLS Web Server Authentication, TLS Web Client Authentication	41cfae2b1d633bc4cf5904479b65a2489df929c	c97f2f6e8adb6ecfe4978f08ca8f6f0123a94784522b610adf6ab51439fc62
17	1	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	00b601913d8553bafa0000000051d4c1f6	EC 384-bits	ECDSA SHA-384	2016-04-05 20:17:29	2037-10-05 20:47:29		TLS Web Server Authentication, TLS Web Client Authentication	2e62f014ee87cdb335033defe4b99efd3bb8a3c9	1835b0e482ea65536fc010e4bc13c060f65668165fba97e2f542ce96ca6dfefc
17	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.net Certification Authority (2048) OU=(c) 1999 Entrust.net Limited OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.) O=Entrust.net	00a25b1769bad80ad70000000051ce1941	EC 384-bits	RSA SHA-256	2021-02-05 16:34:34	2029-07-05 17:04:34		TLS Web Server Authentication, TLS Web Client Authentication	2e62f014ee87cdb335033defe4b99efd3bb8a3c9	0c5a09db8aedf7d2d1dde14dccc2db6ea959bcf6f010360d836c342c624d7e0e
18	1	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	51d360ce	RSA 2048-bits	RSA SHA-256	2014-08-26 17:07:28	2024-08-27 05:48:52			82a27074ddbc533fc7bd4f7cd7fa760c60a4cbf	3b6dd5581c9853092007db1bb0106fc61205e88e360543d7cae02d68e7a25ac3
18	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	51d360cf	RSA 2048-bits	RSA SHA-256	2014-08-26 17:14:49	2024-08-27 08:34:47			82a27074ddbc533fc7bd4f7cd7fa760c60a4cbf	3b0cc20384ad7f24eb438f2b80c63ebe003f7f215b8877e418ebb0484028db57
18	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	51ce00fe	RSA 2048-bits	RSA SHA-256	2014-10-10 15:23:17	2024-10-11 06:22:47			82a27074ddbc533fc7bd4f7cd7fa760c60a4cbf	d6c3fc493bacd1df8a1ba30f4ae26254b2a4528e4876081eacc6a16a090aa36a
18	4	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	51d360ee	RSA 2048-bits	RSA SHA-256	2014-10-22 17:05:14	2024-10-23 07:33:22			82a27074ddbc533fc7bd4f7cd7fa760c60a4cbf	f5c2f23c6518f9d19b6f39beaea4fbae10031ba9dc985ce1563a520da0ad4116
18	5	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	0ee94cc3000000051d37785	RSA 2048-bits	RSA SHA-256	2015-10-05 19:13:56	2030-12-05 19:43:56			82a27074ddbc533fc7bd4f7cd7fa760c60a4cbf	13efb39a2f6654e8c67bd04f4c6d4c90cd6cab5091bcedc73787f6b77d3d3fe7
18	6	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	2022-11-25 17:19:43	2029-7-22 20:00:00		Server Authentication (1.3.6.1.5.5.7.3.1) Client Authentication (1.3.6.1.5.5.7.3.2)	82a27074ddbc533fc7bd4f7cd7fa760c60a4cbf	7f4325cc24107a39441552f27fcd34185802482e164d1794aa415ef1e4206ba7



CA #	Cert #	Subject	Issuer	Serial Number	Key Type	Hash Type	Not Before	Not After	Revoked Date	Extended Key Usage	Subject Key Identifier	SHA256 Fingerprint
19	1	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	309dc7b318912d0ecb7d1df27ab75 cdf	RSA 2048-bits	RSA SHA-256	2022-11-15 12:50:48	2030-12-5 20:00:00			55eaa745b99af7b671311a31dfa176fe7692997a	2c4ad64b4e862d7d46424d9fa13ea9a974a62f7c4b608ae1a871424cc9a6873d
20	1	C=DE O=Siemens CN=Siemens Issuing CA Internet Server 2020	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	00fab27dfff80d09a000000051d3 9440	RSA 2048-bits	RSA SHA-256	2020-08-10 14:11:48	2030-11-10 14:41:48		TLS Web Server Authentication, TLS Web Client Authentication	c9a757cb86c96107c6c2b48665a91ec1cae1029b	a665007a05efe1889d66a40deecbc6c1a271e919006811fdb8dbd7e0675212d1
21	1	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	17c236215a437f11aae022348b6b7f 2d	RSA 2048-bits	RSA SHA-256	2023--2-9 16:09:10	2030-12-7 8:59:59		Server Authentication (1.3.6.1.5.5.7.3. 1) Client Authentication (1.3.6.1.5.5.7.3. 2)	9a9f6fa5f8fe34fc102deb2f89c6b9d7c692d31e	f4e26beb0279228d96d47b05df744ae6ce6aad888a3b757d249eb3d22d27f4c6



ATTACHMENT B

LIST OF ENTRUST CERTIFICATION PRACTICE STATEMENTS

CPS Name	Version	Date
Entrust Certificate Services Certification Practice Statement	3.12	31 Jan 2023
Entrust Certificate Services Certification Practice Statement	3.11	30 Sep 2022
Entrust Certificate Services Certification Practice Statement	3.10	18 Feb 2022
Entrust EU, S.L. Certification Practice Statement	1.7	1 Aug 2022
Entrust EU, S.L. Certification Practice Statement	1.6	30 Nov 2021



ENTRUST MANAGEMENT'S STATEMENT

Entrust Corporation ("Entrust") operates the Certification Authority ("CA") services as enumerated in [Attachment A](#), and provides Extended Validation SSL ("EV SSL") CA services.

The management of Entrust is responsible for establishing and maintaining effective controls over EV SSL CA operations, including its EV SSL CA business practices disclosure on its [website](#), EV SSL key lifecycle management controls, and EV SSL certificate lifecycle management 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 disclosures of its certificate practices and controls over its EV SSL CA services. Based on that assessment, in Entrust management's opinion, in providing its EV SSL CA services at Ottawa, Ontario, and Toronto, Ontario throughout the period 1 March 2022 to 28 February 2023, Entrust has:

- disclosed its EV SSL certificate lifecycle management business practices in its Certification Practice Statements as enumerated in [Attachment B](#), including its commitment to provide EV SSL certificates in conformity with the CA/Browser Forum Guidelines on the Entrust website, and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and EV SSL certificates it manages is established and protected throughout their lifecycles; and
 - EV SSL subscriber information is properly authenticated (for the registration activities performed by Entrust)

in accordance with [the WebTrust Principles and Criteria for Certification Authorities – Extended Validation SSL v1.7.8](#)

Entrust management has also reported or responded to the following 'bugs' on Mozilla's Bugzilla reporting system:

Bug ID	Summary	Opened	Closed
1737057	CRLs and OCSP responses not issued as specified in the CPS	21-Oct-2021	8-Mar-2022
1792231	TLS Certificate issued with an incorrect state or province	23-Sep-2022	19-Apr-2023
1802916	EV TLS Certificate incorrect jurisdiction	28-Nov-2022	24-Apr-2023
1804753	Delayed Revocation for EV TLS Certificate incorrect jurisdiction	8-Dec-2022	19-Apr-2023

Bruce Morton
Director, Entrust Certificate Services
18th May 2023
Re-signed: 27th June 2023



ATTACHMENT A

LIST OF IN SCOPE CAs

Root CAs
<ol style="list-style-type: none">1. Entrust.net Certification Authority (2048)2. Entrust Root Certification Authority – EV Root3. Entrust Root Certification Authority – G24. Entrust Root Certification Authority – G45. Entrust Root Certification Authority – EC16. Entrust Root Certification Authority – 4K EVTLSR 20227. Entrust Root Certification Authority – P384 EVTLSR 2022
EV SSL Issuing CAs
<ol style="list-style-type: none">8. Entrust Certification Authority – L1E9. Entrust Certification Authority – L1J10. Entrust Certification Authority – L1M11. Entrust Certification Authority – L1N12. Entrust Certification Authority - EVTLS113. Entrust Certification Authority - EVTLS214. Entrust Certification Authority - Namirial EV SSL
Qualified Certificate EV SSL Issuing CAs
<ol style="list-style-type: none">15. Entrust Certification Authority - QTSP116. Entrust Certification Authority - ES QWAC2
CAs not issuing EV SSL certificate during the Period
<ol style="list-style-type: none">17. Entrust Certification Authority – L1F18. Entrust Certification Authority – L1K19. Entrust Certification Authority – CrowdStrike TLS CA 202220. Siemens 202021. Namirial OV SSL CA 2023



ATTACHMENT B

LIST OF ENTRUST CERTIFICATION PRACTICE STATEMENTS

CPS Name	Version	Date
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