

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 2024 to 28 February 2025 (the "Period") for its CAs as enumerated in Attachment A, Entrust has:

- disclosed its S/MIME certificate lifecycle management business practices in its Certificate Policy/ Certification Practice Statements ("CP/CPS") as enumerated in Attachment B including its commitment to provide S/MIME certificates in conformity with the CA/Browser Forum Requirements 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 S/MIME certificates it manages is established and protected throughout their lifecycles; and
 - S/MIME subscriber information is properly authenticated (for the registration activities performed by Entrust)
- maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorised individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorised and performed to maintain CA systems integrity

in accordance with the [WebTrust Principles and Criteria for Certification Authorities – S/MIME – v1.0.3](#)

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 – S/MIME – v1.0.3.

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 S/MIME certificate lifecycle management business practices, including its relevant controls over the issuance, renewal, and revocation of S/MIME certificates;
- (2) selectively testing transactions executed in accordance with disclosed S/MIME certificate lifecycle management practices;
- (3) testing and evaluating the operating effectiveness of the controls; and

Deloitte.

(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, because of their nature, controls may not prevent, or detect unauthorised 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.

Other matters

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

Matter topic	Matter description
1 Update on delayed revocation	As publicly disclosed Bug# 1910237 three certificates were issued with errors, which were documented in Bugs #1906467 and 1906470 . The issue was identified following a linting report conducted on July 2, 2024. Entrust completed an internal investigation by July 3, 2024, and revoked the certificates on July 8, 2024.

Basis for qualified opinion

During our procedures, we noted the following which caused a qualification of our opinion:

Observation	Relevant portion of WebTrust - CA for S/MIME Criteria
As publicly disclosed in Bug # 1906467 ; One (1) certificate, issued on July 2, 2024, was mis-issued because a mailbox address in the subject commonName was not included. As a result relevant portion of the criterion 2.13 in Principle 2 of WebTrust Principles and Criteria for Certification Authorities – S/MIME – v1.0.3 was not met.	P2 - 2.13: The CA maintains controls to provide reasonable assurance that for Subscriber certificates issued: •The subjectAltName extension is present and contains at least one entry
As publicly disclosed in Bug # 1906470 ; two (2) S/MIME certificates, issued on October 5, 2023, were issued with a mailbox address case mismatch between the subject name and the subjectAltName. Identified two mis-issued certificates were revoked in July 2024. As a result relevant portion of the criterion 2.14 in Principle 2 of WebTrust Principles and Criteria for Certification Authorities – S/MIME – v1.0.3 was not met.	P2 - 2.14: The CA maintains controls to provide reasonable assurance that it does not include a Mailbox Address in a Mailbox Field except as verified in accordance with Section 3.2.2 of the S/MIME Baseline Requirements. •All Mailbox Addresses in the subject field or entries of type dirName of this extension SHALL be repeated as rfc822Name or otherName values of type id-on-SmtpUTF8Mailbox in this extension.
As publicly disclosed in Bug # 1914065 ; 1,039 S/MIME certificates were missing verification of the OU and did not	P2-2.15: The CA maintains controls to provide reasonable assurance that Subject information of Certificates

Deloitte.

Observation	Relevant portion of WebTrust - CA for S/MIME Criteria
<p>comply with S/MIME Baseline Requirements (BRs) section 7.1.4.2.2.c.</p> <p>As a result relevant portion of the criterion 2.15 in Principle 2 of WebTrust Principles and Criteria for Certification Authorities – S/MIME – v1.0.3 was not met.</p>	<p>conforms to the S/MIME Baseline Requirements, including:</p> <ul style="list-style-type: none"> •commonName •organizationName •organizationalUnitName •organizationalIdentifier •givenName •Pseudonym •serialNumber •emailAddress •title •streetAddress •localityName •stateOrProvinceName •postalCode •countryName •Subject Information for Root and Subordinate CA certificates
<p>As publicly disclosed in Bug# 1914065: 1,039 certificates were identified as mis-issued due to the lacking of OU field on August 15, 2024. Entrust initiated and completed its investigation by August 19, 2024.</p> <p>As a result relevant part of the criterion 5.2 in Principle 2 of WebTrust Principles and Criteria for Certification Authorities – S/MIME – v1.0.3 was not met.</p>	<p>P2-5.2: The CA maintains controls to provide reasonable assurance that it:</p> <ul style="list-style-type: none"> •begins investigation of Certificate Problem Reports within 24 hours and provide a preliminary report on its findings to both the Subscriber and the entity who filed the Certificate Problem Report.

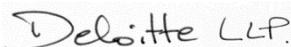
Opinion

In our opinion, except for the matters described in the table presented in the 'Basis for qualified opinion' section above, throughout the period 1 March 2024 to 28 February 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 – S/MIME – v1.0.3

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 – S/MIME – v1.0.3, 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 – S/MIME Certificates 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.

Deloitte LLP
Chartered Professional Accountants
Toronto, Ontario, Canada
June 27, 2025

Deloitte.

ATTACHMENT A

LIST OF IN SCOPE CAs

Root Cas
1. Entrust.net Certification Authority (2048) 2. Entrust Root Certification Authority- EV Root 3. Entrust Root Certification Authority – G2 4. Entrust Root Certification Authority – G4 5. Entrust Root Certification Authority – EC1 6. Entrust Root Certification Authority - SMIMER 2022 7. AffirmTrust Commercial 8. AffirmTrust Networking 9. AffirmTrust Premium 10. AffirmTrust Premium ECC
Intermediate Cas
11. Entrust Certification Authority – AATL1 12. Entrust Certification Authority – ICA1
OV SSL Issuing Cas
13. Entrust Certification Authority – L1K
Secure Email (S/MIME) CA
14. Class 1 Client CA – SHA256 15. Entrust Class 2 Client CA 16. Entrust Class 2 Client CA – C2CA2 17. Entrust SMIME1 Client CA 18. Entrust SMIME2 Client CA
Document Signing CA
19. Entrust Class 3 Client CA - SHA256 20. Entrust Certification Authority - ES QSeal1 21. Entrust Certification Authority – ES QSig1

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 lab.) 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 lab.) O=Entrust.net	3863def8	RSA 2048-bits	RSA SHA-1	12/24/1999 17:50	7/24/2029 14:15			55e481d11180bed889b908a331f9a1240916b970	6DC47172E01CBCB0BF62580D895FE2B8AC9AD4F873801E0C10B9C837D21EB177
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	11/27/2006 20:23	11/27/2026 20:53			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	7/7/2009 17:25	12/7/2030 17:55			6a72267ad01eeffde73b6951d46c8d9f901266ab	43DF5774B03E7FEF5FE40D931A7BEDF1BB2E6B42738C4E6D3841103D3AA7F339
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	9/12/2014 17:28	9/13/2024 3:12			6a72267ad01eeffde73b6951d46c8d9f901266ab	CBCE622D06F9D2C093FAD75CEBB7852EF553FFF146AD522AB321B3A4B2BD8F8
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	9/12/2014 19:23	9/13/2024 3:12			6a72267ad01eeffde73b6951d46c8d9f901266ab	16296E3BEF9A64CFEDE3509F36D700A5CD61CF938EC3A955BF36D17D97E16E8D
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	9/22/2014 17:14	9/23/2024 1:31			6a72267ad01eeffde73b6951d46c8d9f901266ab	6B143C2005D5539CC2EAB5F772DB2A9FE87467FEFFA07FCF0A9F7D28274CA7A
3	5	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	3/06/2024 16:00	11/26/2026 23:59			6a72267ad01eeffde73b6951d46c8d9f901266ab	65F0358FC93934CD5AAC43122F37948D7BD042D148E6FD88B2E65AA9AC399DDD
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	00d9b5437fafaf9390f00000005565ad58	RSA 4096-bits	RSA SHA-256	5/27/2015 11:11	12/27/2037 11:41			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	00a68b7929000000050d091f9	EC 384-bits	ECDSA SHA-384	12/18/2012 15:25	12/18/2037 15:55			b763e71add8de908a65583a4e06a504165114249	02ED0EB28C14DA45165C566791700D6451D7FB56F0B2AB1D3B8EB070E56EDFF5

CA #	Cert #	Subject	Issuer	Serial Number	Key Type	Hash Type	Not Before	Not After	Revoked Date	Extended Key Usage	Subject Key Identifier	SHA256 Fingerprint
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	008011196de613db16000000051d3575e	EC 384-bits	RSA SHA-256	6/10/2016 14:58	11/10/2026 15:28			b763e71add8de908a65583a4e06a504165114249	3FDE0D36E026B6E8EBE2C28883607C8651DE10BD6C1FCAD365E560F4EA2F3B03
6	1	CN = Entrust SMIME Root CA - 2022 O = Entrust, Inc. C = US	CN = Entrust SMIME Root CA - 2022 O = Entrust, Inc. C = US	7da23fcefbbe8849c350f2a511e9b96bb71f8d80	RSA 4096-bits	RSA SHA-384	2022-12-13 13:00:46	2047-12-7 13:00:46			94c8e8468d7f53170305441810ac65e06ea2950d	B7A41ED8096D62716BADC7F530942197A9E7E3175CE05D11D01E7AD6C12DCBA7
6	2	CN = Entrust SMIME Root CA - 2022 O = Entrust, Inc. C = US	CN = Entrust Root Certification Authority - G2 O = Entrust, Inc. CN = US	58cbd5fa3076485c180a1ce25747447d	RSA 4096-bits	RSA SHA-256	5/17/2023 19:22:00	12/7/2030 23:59:00			94c8e8468d7f53170305441810ac65e06ea2950d	E8A2BB3BDE5365BE0BE83AAECC646A104B5C1A2CD03D4534F6CF4BDA1533E0
7	1	CN = AffirmTrust Commercial O = AffirmTrust C = US	CN = AffirmTrust Commercial O = AffirmTrust C = US	7777062726a9b17c	RSA 2048-bits	RSA SHA-256	01/29/2010 09:06	12/31/2030 09:06			9d93c6538b5ecaaf3f9fe0fe59995bc24f6948f	0376AB1D54C5F9803CE4B2E201A0EE7EEF7B57B636E8A93C988D4860C96F5FA7
8	1	CN = AffirmTrust Networking O = AffirmTrust C = US	CN = AffirmTrust Networking O = AffirmTrust C = US	7c4f04391cd4992d	RSA 2048-bits	RSA SHA-256	01/29/2010 09:08	12/31/2030 09:08			071fd2e79cdac26ea240b4b07a50105074c4c8bd	0A81EC5A929777F145904AF38D5D509F66B5E2C58FCDB531058B0E17F3F0B41B
9	1	CN = AffirmTrust Premium O = AffirmTrust C = US	CN = AffirmTrust Networking O = AffirmTrust C = US	6d8c1446b1a60aee	RSA 2048-bits	RSA SHA-256	01/29/2010 09:10	12/31/2030 09:10			9dc067a60c22d926f545aba665521127d845ac63	70A73F7F376860074248904534B11482D5BF0E698ECC498DF52577EBF2E93B9A
10	1	CN = AffirmTrust Premium ECC O = AffirmTrust C = US	CN = AffirmTrust Premium ECC O = AffirmTrust C = US	7497258ac73f7a54	RSA 2048-bits	RSA SHA-256	01/29/2010 09:20	12/31/2040 09:20			9aaef297ac011353526513000c36afe40d5aed63c	BD71FDF6DA97E4CF62D1647ADD2581B07D79ADF8397EB4ECBA9C5E8488821423
11	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	00c727f51f8f922b0200000005565d8ad	RSA 4096-bits	RSA SHA-512	7/20/2020 15:46	12/20/2037 16:16		1.3.6.1.4.1.311.10.3.12, 1.2.840.113583.1.1.5, E-mail Protection	63f184dd03bea39f64fa767a47c4567ec06da020	839F9B91C2E49218A66416DF181B984E9BE634D12A95483D98A6199FC0788D74
12	1	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
13	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	79851D5CBC895C56D97FEF2D5CF3D6	RSA 2048-bits	RSA SHA-256	10/05/2015 19:13	12/05/2030 19:43			82a27074ddbc533fcf7bd4f7cd7fa760c60a4cbf	052C0174E806F9474AEC865129A04867F385087B631393B4D8A7F26B4373348
13	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	8/26/2014 17:14	8/27/2024 8:34			82a27074ddbc533fcf7bd4f7cd7fa760c60a4cbf	3B0CC20384AD7F24EB438F2B80C63E8E003F7F215B8877E418EBB0484028DB57
13	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	10/10/2014 15:23	10/11/2024 6:22			82a27074ddbc533fcf7bd4f7cd7fa760c60a4cbf	D6C3FC493BACD1DF8A1BA30F4AE26254B2A4528E4876081EACC6A16A090AA36A

CA #	Cert #	Subject	Issuer	Serial Number	Key Type	Hash Type	Not Before	Not After	Revoked Date	Extended Key Usage	Subject Key Identifier	SHA256 Fingerprint
13	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	10/22/2014 17:05	10/23/2024 7:33			82a27074ddbc533fcf7bd4f7cd7fa760c60a4cbf	F5C2F23C6518F9D19B6F39BEAEA4FBAE10031BA9DC985CE1563A520DA0AD4116
13	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	10/5/2015 19:13	12/5/2030 19:43			82a27074ddbc533fcf7bd4f7cd7fa760c60a4cbf	13EFB39A2F6654E8C67BD04F4C6D4C90CD6CAB5091BCEDC73787F6B77D3D3FE7
13	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)	82a27074ddbc533fcf7bd4f7cd7fa760c60a4cbf	7F4325CC24107A39441552F27FDC34185802482E164D1794AA415EF1E4206BA7
14	1	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	2019-04-16 15:35:52	2030-11-16 16:05:52		TLS Web Client Authentication, E-mail Protection	e249b9ec25deb70cdee550185b48cc0c8e15f2a6	C6E9E993C258B72124AAD3C9C068B6EF23576155F310B305733361E20B17C943
15	1	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	00bcb4d843035b759f000000051ce1709	RSA 2048-bits	RSA SHA-256	2017-06-20 20:34:33	2028-12-20 21:04:33		E-mail Protection, TLS Web Client Authentication	0991a5bae9f22e2a75dfcd7efe77caf2de6b9b24	95AD94E88F5B8604E40E5FFF36B0D34BE46C1D5BA06C0E735B72AA396735C415
15	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	00af1c04b2ac8cff9b000000051ce18e3	RSA 2048-bits	RSA SHA-256	2020-07-29 15:48:30	2029-06-29 16:18:30		E-mail Protection, TLS Web Client Authentication	0991a5bae9f22e2a75dfcd7efe77caf2de6b9b24	1A20FEF46482A98BAC6F6C7397C017310AC7FB78495438BC7A7DE9035C246679
16	1	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	0088068b45c3fd464000000051ce1961	RSA 2048-bits	RSA SHA-256	2021-03-16 14:22:40	2029-07-16 14:52:40		TLS Web Client Authentication, E-mail Protection	a2714ad5c264652f8dc2ae2c1b6e70dd0f932e4	B14CF550D8F573D93E90963C32A85FB51C983C98164F54D78915F6358C954F0E
17	1	CN = Entrust Personal Email Certification Authority - SMIME1 O = Entrust, Inc. C = US	CN = Entrust SMIME Root CA - 2022 O = Entrust, Inc. C = US	1bb7bc5a6a4f06be4f716105ecdf2a74	RSA 4096-bits	SHA-384	2022-12-14 18:31	2040-12-29 23:59		E-mail Protection, TLS Web Client Authentication	03219B5F18632EC87EF9AEDAD9179FB6C91B8360	97E229CD78B38BD7B74AC431FA57E294CBA35EB238293DEDE04B20B218D92BA
18	1	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	2024-06-26 16:05	2040-12-29 23:59:59		E-mail Protection, TLS Web Client Authentication	E08815F1C58A919DBF95E8E676AD71CD0780F87F	D9F628050929FC422B1FCB73C11496923D7DB0E155769A134313C0E5E81FB2A8
19	1	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	2016-02-25 18:08:16	2029-06-25 18:38:16		TLS Web Client Authentication, E-mail Protection, 1.3.6.1.4.1.311.10.3.12, 2.16.840.1.114027.40.11	069f64ea2294e0f0cae17bfb69846efadb83b72	33857338361ECFC4858DDFF6B9EF6273E3DB856AB9CEA1C0E2C65925D1C87978
20	1	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	2020-07-27 14:39:07	2037-12-19 23:59:00		E-mail Protection, 1.3.6.1.4.1.311.10.3.12, 1.2.840.1.113583.1.1.5	5680152395717fe72d90d0cd063a4f67637d3d75	1701DE38124C4458F32B88AE7E62AC15876C427A3AD3BBAE8FD1479FF00030F3
21	1	CN=Entrust Certification Authority - ES QSig1 C=ES O=Entrust Datacard Europe, S.L. organizationIdentifier=VATES-B81188047	CN=Entrust Certification Authority - AATL1 C=US O=Entrust, Inc.	4491ca5825be79842b29b0c37286215f	RSA 4096-bits	RSA SHA-512	2020-07-29 16:33:00	2037-12-19 23:59:00	2024-09-25	E-mail Protection, 1.3.6.1.4.1.311.10.3.12, 1.2.840.1.113583.1.1.5	5a53088a6130a90dead54397d3983b951e2e6d02	B2874B588A94034798319D5D329DB265F83A47F315BA5831A4970CB57166D594

ATTACHMENT B

LIST OF ENTRUST CERTIFICATION PRACTICE STATEMENTS

CPS Name	Version	Date
Entrust Certificate Services Certification Practice Statement	3.29	21 Feb 2025
Entrust Certificate Services Certification Practice Statement	3.28	21 Nov 2024
Entrust Certificate Services Certification Practice Statement	3.27	7 Nov 2024
Entrust Certificate Services Certification Practice Statement	3.26	15 Oct 2024
Entrust Certificate Services Certification Practice Statement	3.25	9 Oct 2024
Entrust Certificate Services Certification Practice Statement	3.24	19 Sept 2024
Entrust Certificate Services Certification Practice Statement	3.23	11 Sept 2024
Entrust Certificate Services Certification Practice Statement	3.22	31 July 2024
Entrust Certificate Services Certification Practice Statement	3.21	14 May 2024
Entrust Certificate Services Certification Practice Statement	3.20	26 March 2024
Entrust Certificate Services Certification Practice Statement	3.19	25 March 2024
Entrust Certificate Services Certification Practice Statement	3.18	22 March 2024
Entrust Certificate Services Certification Practice Statement	3.17	21 March 2024
Entrust Certificate Services Certification Practice Statement	3.16	20 Feb 2024
Entrust EU, S.L. Certification Practice Statement	2.2	27 Jan 2025
Entrust EU, S.L. Certification Practice Statement	2.1	1 May 2024
Entrust EU, S.L. Certification Practice Statement	2.0	31 Oct 2023
AffirmTrust Certification Practice Statement	3.18	15 Jan 2025
AffirmTrust Certification Practice Statement	3.17	21 Mar 2024
AffirmTrust Certification Practice Statement	3.16	20 Feb 2024



ENTRUST MANAGEMENT'S STATEMENT

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

The management of Entrust is responsible for establishing and maintaining effective controls over its S/MIME CA operations, including its S/MIME CA business practices disclosure on its [website](#), S/MIME key lifecycle management controls, and S/MIME 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 CA services. Based on that assessment, in Entrust management's opinion, in providing its CA services at Ottawa, Ontario, Canada and Toronto, Ontario, Canada throughout the period 1 March 2024 to 28 February 2025, Entrust has:

- disclosed its S/MIME certificate lifecycle management business practices in its:
 - Certificate Policy/ Certification Practice Statements ("CP/CPS") as enumerated in [Attachment B](#) including its commitment to provide S/MIME certificates in conformity with the CA/Browser Forum Requirements 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 S/MIME certificates it manages is established and protected throughout their lifecycles; and
 - S/MIME subscriber information is properly authenticated (for the registration activities performed by Entrust)
- maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorised individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorised and performed to maintain CA systems integrity

in accordance with the [WebTrust Principles and Criteria for Certification Authorities – S/MIME – v1.0.3](#)

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

Bug ID	Summary	Opened	Closed
1906467	S/MIME mailbox address not in subjectAltName	7/2/2024	11/13/2024
1906470	S/MIME mailbox address case mismatch between subject and subjectAltName	7/3/2024	12/5/2024
1910237	Delayed Revocation for S/MIME certificates	7/27/2024	11/13/2024
1914065	S/MIME certificates lacking OU verification	8/20/2024	02/28/2025

A handwritten signature in black ink that reads "Bruce Morton".

Bruce Morton
Director, Entrust Certificate Services
June 27, 2025



ATTACHMENT A

LIST OF IN SCOPE CAs

Root Cas
1. Entrust.net Certification Authority (2048) 2. Entrust Root Certification Authority- EV Root 3. Entrust Root Certification Authority – G2 4. Entrust Root Certification Authority – G4 5. Entrust Root Certification Authority – EC1 6. Entrust Root Certification Authority - SMIMER 2022 7. AffirmTrust Commercial 8. AffirmTrust Networking 9. AffirmTrust Premium 10. AffirmTrust Premium ECC
Intermediate Cas
11. Entrust Certification Authority – AATL1 12. Entrust Certification Authority – ICA1
OV SSL Issuing Cas
13. Entrust Certification Authority – L1K
Secure Email (S/MIME) CA
14. Class 1 Client CA – SHA256 15. Entrust Class 2 Client CA 16. Entrust Class 2 Client CA – C2CA2 17. Entrust SMIME1 Client CA 18. Entrust SMIME2 Client CA
Document Signing CA
19. Entrust Class 3 Client CA - SHA256 20. Entrust Certification Authority - ES QSeal1 21. Entrust Certification Authority – ES QSig1

ATTACHMENT B

LIST OF ENTRUST CERTIFICATION PRACTICE STATEMENTS

CPS Name	Version	Date
Entrust Certificate Services Certification Practice Statement	3.29	21 Feb 2025
Entrust Certificate Services Certification Practice Statement	3.28	21 Nov 2024
Entrust Certificate Services Certification Practice Statement	3.27	7 Nov 2024
Entrust Certificate Services Certification Practice Statement	3.26	15 Oct 2024
Entrust Certificate Services Certification Practice Statement	3.25	9 Oct 2024
Entrust Certificate Services Certification Practice Statement	3.24	19 Sept 2024
Entrust Certificate Services Certification Practice Statement	3.23	11 Sept 2024
Entrust Certificate Services Certification Practice Statement	3.22	31 July 2024
Entrust Certificate Services Certification Practice Statement	3.21	14 May 2024



Entrust Certificate Services Certification Practice Statement	3.20	26 March 2024
Entrust Certificate Services Certification Practice Statement	3.19	25 March 2024
Entrust Certificate Services Certification Practice Statement	3.18	22 March 2024
Entrust Certificate Services Certification Practice Statement	3.17	21 March 2024
Entrust Certificate Services Certification Practice Statement	3.16	20 Feb 2024
Entrust EU, S.L. Certification Practice Statement	2.2	27 Jan 2025
Entrust EU, S.L. Certification Practice Statement	2.1	1 May 2024
Entrust EU, S.L. Certification Practice Statement	2.0	31 Oct 2023
AffirmTrust Certification Practice Statement	3.18	15 Jan 2025
AffirmTrust Certification Practice Statement	3.17	21 Mar 2024
AffirmTrust Certification Practice Statement	3.16	20 Feb 2024