Deloitte LLP
Bay Adelaide Centre, East Tower
8 Adelaide Street West
Suite 200
Toronto, ON M5H 0A9
Canada

Tel: +1 416 601 6150
www.deloitte.ca

INDEPENDENT ASSURANCE REPORT

To the management of Agence Nationale de Certification Electronique ("ANCE" or "TunTrust"):

Scope

We have been engaged, in a reasonable assurance engagement, to report on TunTrust management's statement that in generating and protecting the asymmetric key pairs for its:

1. TnTrust Root CA – G1
2. TnTrust CA – QSign1

(Collectively, "TunTrust CAs") during the period of 20 September 2022 to 23 September 2022 at Ariana, Tunisia, with the following identifying information (full identifying information enumerated in Attachment A):

CA Name	Subject Key Identifier
1.TnTrust Root CA – G1	CB:A5:25:28:43:3E:52:E3:55:46:72:79:3D:6F:FC:A9:59:04:EB:56
2.TnTrust CA – QSign1	48:C0:C1:B5:B6:8B:12:36:14:36:66:09:A8:CB:25:5D:BA:21:69:78

TunTrust has:

- followed the CA key generation and protection requirements in its:
  - TnTrust Sign PKI Certificate Policy / Certification Practice Statement Version 01, 23 September 2022 (CP/CPS)
- Included appropriate, detailed procedures and controls in its Key Generation scripts:
  - PV GAC 04 Key Ceremony Preparation 21 September 2022
  - PV GAC 09 Key Ceremony 21 September 2022
  - PV GAC 20 OCSP Ceremony 22 September 2022
  - PV GAC 06 Key Ceremony Finalisation 23 September 2022
- maintained effective controls to provide reasonable assurance that TunTrust CAs were generated and protected in conformity with the procedures described in its CP/CPS and its Key Generation Scripts
- performed, during the key generation process, the procedures required by the Key Generation Scripts
- generated the CA keys in a physically secured environment as described in its CP and CPS
- generated the CA keys using personnel in trusted roles under multiple person control and split knowledge
- generated the CA keys within cryptographic modules meeting the applicable technical and business requirements as disclosed in its CP and CPS

in accordance with CA Key Generation Criterion 4.1 of the WebTrust Principles and Criteria for Certification Authorities - Version 2.2.2.

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Certification authority's responsibilities

TunTrust 's management is responsible for its management statement, including the fairness of its presentation, and for generating and protecting its CA keys in accordance with CA Key Generation Criterion 4.1 of the WebTrust Principles and Criteria for Certification Authorities v2.2.2.

Our independence and quality control

We have complied with the independence and other ethical requirements of the *Code of Ethics for Professional Accountants* issued by the International Ethics Standards Board for Accountants, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior.

The firm applies International Standard on Quality Control 1, *Quality Control for Firms that Perform Audits and Reviews of Historical Financial Information, and Other Assurance and Related Services,* 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.

Auditor's responsibilities

Our responsibility is to express an opinion on management's statement based on our procedures. We conducted our procedures in accordance with International Standards on Assurance Engagements 3000, *Assurance Engagements Other than Audits or Reviews of Historical Financial Information*, issued by the international Auditing and Assurance Standards Board. 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 TunTrust's documented plan of procedures to be performed for the generation of the certification authority key pairs for the TunTrust CAs;
(2) reviewing the detailed CA key generation scripts for conformance with industry standard practices;
(3) testing and evaluating, during the CA key generation process, the effectiveness of controls over the integrity, confidentiality, and availability of all private keys, including back-up copies, and access keys (including physical keys, tokens and passwords),used in the establishment of the service;
(4) physical observation of all procedures performed during the CA key generation process to ensure that the procedures actually performed from 20 September 2022 to 23 September 2022 were in accordance with the Key Generation Scripts for the TunTrust CAs; and
(5) 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.

Opinion

In our opinion, in all material respects, based on TunTrust's management's statement, TunTrust has generated and protected the asymmetric key pairs for its:

1. TnTrust Root CA – G1
2. TnTrust CA – QSign1

in accordance with CA Key Generation Criterion 4.1 of the Principles and Criteria for Certification Authorities - Version 2.2.2.

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This report does not include any representation as to the quality of TunTrust's services beyond those covered by CA Key Generation Criterion 4.1 of the Principles and Criteria for Certification Authorities - Version 2.2.2, nor the suitability of any of TunTrust's services for any customer's intended purpose.

Deloitte LLP

Deloitte LLP
Chartered Professional Accountants
Toronto, Ontario, Canada

21 October 2022

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Attachment A

TnTrust Root CA – G1

```
Certificate:
   Data:
      Version: 3 (0x2)
      Serial Number:
         3c:89:26:71:a7:5c:ec:cd:6a:9c:20:80:28:47:0a:2d:d3:9f:f6:76
      Signature Algorithm: sha512WithRSAEncryption
      Issuer: CN = TnTrust Root CA - G1, O = AGENCE NATIONALE DE CERTIFICATION ELECTRONIQUE, C
= TN
      Validity
         Not Before: Sep 21 16:27:45 2022 GMT
         Not After : Sep 21 16:27:45 2047 GMT
      Subject: CN = TnTrust Root CA - G1, O = AGENCE NATIONALE DE CERTIFICATION ELECTRONIQUE,
C = TN
      Subject Public Key Info:
         Public Key Algorithm: rsaEncryption
            Public-Key: (8192 bit)
            Modulus:
               00:e8:b3:ea:8f:c7:ba:e6:f3:e4:49:e3:64:46:7a:
               b3:5a:b3:96:2b:cf:ce:ae:14:fc:e8:16:11:f1:3c:
               06:a7:4e:6a:a6:20:bf:8b:54:0e:d2:a0:21:26:45:
               7c:da:57:08:b0:f7:2c:05:37:ff:4f:d6:4c:9c:67:
               39:b5:8d:39:16:9b:e2:c9:17:08:fc:b1:3c:0f:dd:
               98:1c:41:ea:bd:1a:24:0a:04:93:9b:b6:91:f5:b8:
               ae:5f:54:9d:d9:85:5d:7f:43:83:b8:2a:6a:7a:14:
               16:49:59:8f:aa:31:47:06:78:c2:62:d9:9f:90:dc:
               f1:5e:61:47:c1:cb:fd:c8:88:12:e7:80:6b:ed:b8:
               21:b4:60:34:12:b4:60:d0:40:47:9e:86:a2:8a:b9:
               8c:7e:05:5d:71:e9:d6:ab:be:47:1e:b0:61:b3:f4:
               f4:5e:b0:de:3a:95:0d:54:a6:e0:67:85:db:37:f3:
               ea:8f:64:c8:d3:5b:a0:f5:ca:eb:2c:12:7d:9a:db:
               95:b3:ca:ea:06:d9:3f:46:64:a6:ff:04:d9:e6:05:
               aa:22:2c:2c:e0:7c:94:fd:2c:2c:8a:9e:b1:c4:28:
               76:fb:f1:e5:2f:f5:92:e8:f8:4f:62:7d:e0:11:61:
               6b:3c:4b:df:63:f3:da:03:92:98:09:db:4a:7a:fe:
               07:63:d0:f8:7c:67:07:80:ce:d2:f2:b5:9d:62:24:
               42:47:9c:b4:d6:47:2b:84:7f:c4:4f:ea:97:6c:03:
               2e:d5:8f:5f:2b:72:d7:f4:a1:11:40:20:d1:c8:1d:
               d4:eb:7f:0f:67:53:92:12:36:f3:92:11:37:8d:42:
               65:6e:da:1e:f8:cd:02:5a:a6:95:57:a5:64:34:a6:
               b8:8a:a3:89:45:ab:98:1c:ca:31:be:24:f6:1e:e9:
               38:20:f8:17:1a:1b:56:88:f5:93:05:01:5c:5a:6c:
               e6:20:39:d2:4e:a4:87:1a:ac:6c:77:2e:ee:a4:57:
               10:ff:4d:89:9b:94:2e:48:79:08:44:2c:48:e9:13:
               94:28:eb:a4:9f:c1:ac:1a:e5:da:55:a2:13:34:4a:
               ff:43:1d:79:01:90:96:7d:07:ae:e7:40:55:67:0e:
               f6:19:a1:20:ef:a0:47:cd:ca:b8:34:00:6c:34:91:
               04:79:59:6d:39:74:06:53:c6:b5:c5:ca:3d:96:5b:
               29:70:47:f9:ab:06:79:37:5e:10:c9:5c:1b:f1:d2:
```

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```
            2d:68:fa:17:b0:81:31:dc:51:35:44:53:7c:4e:f1:
            ed:0f:12:43:e8:10:9d:33:c6:98:1c:97:91:c4:19:
            ba:c9:40:2d:75:6f:91:a1:b6:a3:00:9c:c5:89:94:
            3e:e0:6b:35:23:9f:62:85:74:96:14:a3:c9:18:68:
            73:32:77:25:22:cc:e7:c5:9a:6c:90:51:7a:f8:8e:
            69:01:ae:58:8c:91:b3:98:ab:ea:74:53:85:96:3d:
            d3:ad:32:aa:de:86:c6:33:ba:97:55:a8:a2:27:a9:
            b8:8d:83:8c:13:94:f7:13:f0:dd:d9:c3:de:19:5a:
            ff:ba:5a:f7:56:2c:e7:be:ab:93:65:be:c6:80:a7:
            77:05:d2:fa:90:0b:84:1e:47:92:3b:f2:35:51:a2:
            52:14:ea:68:3d:b6:29:99:93:00:4d:be:c2:c6:d9:
            15:70:6f:e3:c6:8f:36:6c:b6:96:59:6d:39:30:f6:
            07:51:66:17:1f:b6:8a:28:5c:08:d4:25:be:d4:94:
            be:55:7a:de:76:77:00:cd:4f:6f:b9:d3:f7:b7:39:
            5c:b7:12:c9:e5:2f:d2:e8:5f:40:91:7e:18:7c:fd:
            e4:45:fb:88:a3:0b:24:1b:5c:cc:bd:c5:38:e2:1a:
            c6:ca:99:51:11:78:3c:b3:f8:58:19:5c:ad:fa:81:
            56:27:90:a0:e1:c4:0f:f4:b5:c6:94:06:8b:d0:f4:
            f9:81:a9:63:73:e8:d4:a7:93:de:c7:a2:dc:7a:39:
            97:c6:2e:0e:3c:1e:4a:a7:42:8b:19:08:26:5a:e1:
            a7:e3:ab:5b:7a:0e:db:eb:e2:05:98:24:f7:00:76:
            9a:b1:62:8c:f2:c2:64:66:ba:40:9d:d9:0a:aa:49:
            48:c7:83:c7:5f:46:ff:5f:fd:a9:12:b2:6b:0a:c9:
            c0:97:58:c9:3d:80:7c:aa:1d:66:31:a5:3b:5f:f6:
            ed:21:0a:2f:68:bc:0f:d0:75:a3:b3:2b:1e:dc:79:
            c8:60:fd:67:d0:95:80:be:a2:5a:7b:89:94:cd:d4:
            68:57:e5:17:a3:d8:30:ed:c7:15:54:6a:96:13:11:
            e0:67:4a:db:88:7e:81:44:7a:32:e3:82:80:8b:22:
            51:b6:84:8e:db:98:87:ad:90:64:ef:0b:1f:83:b8:
            b3:98:f3:2a:4f:fd:d8:98:7c:90:8d:c4:90:1e:d5:
            14:5c:23:72:1c:51:a0:51:db:cc:c2:e5:ab:71:7d:
            a4:98:3b:64:51:29:53:b9:c8:37:ba:cb:fb:d2:1b:
            74:a2:cf:b3:78:53:6b:70:de:71:f4:49:28:7c:29:
            7e:ca:4f:5b:69:f5:a5:92:44:b0:a8:52:e4:f9:72:
            83:ab:75:55:43:ef:1a:64:ad:2e:bd:84:b2:e3:12:
            c3:7c:db:ba:03:4f:19:30:de:80:fb:94:74:90:24:
            bc:50:3c:97:4f:e0:76:7b:2e:91:87:32:50:eb:08:
            42:e6:6a:1d:c1
        Exponent: 65537 (0x10001)
    X509v3 extensions:
        X509v3 Subject Key Identifier:
            CB:A5:25:28:43:3E:52:E3:55:46:72:79:3D:6F:FC:A9:59:04:EB:56
        X509v3 Basic Constraints: critical
            CA:TRUE
        X509v3 Authority Key Identifier:
            CB:A5:25:28:43:3E:52:E3:55:46:72:79:3D:6F:FC:A9:59:04:EB:56
        X509v3 Key Usage: critical
            Certificate Sign, CRL Sign
Signature Algorithm: sha512WithRSAEncryption
Signature Value:
    ac:60:20:2a:58:9a:08:64:cc:53:0e:db:d3:9c:5c:ce:23:66:
    8f:64:de:ab:9c:57:96:b0:e9:f2:32:44:04:ee:15:0b:87:d0:
```

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11:4e:a5:d4:17:b7:40:86:0d:19:fb:83:4e:88:a8:c9:79:e1:
bf:e7:e4:5d:01:41:47:aa:be:8e:7f:1d:3a:85:1a:98:30:ef:
6d:7e:27:b8:29:36:d2:68:a5:17:9e:82:2c:09:18:22:36:4d:
70:97:0f:7a:31:9b:fe:cd:ec:c1:49:27:12:64:80:7b:b3:74:
1b:a2:22:b8:fe:06:26:03:9d:f1:2c:0d:74:67:43:a6:52:83:
06:cb:81:5b:25:34:f2:ac:60:13:8c:60:87:ef:86:05:04:1e:
10:a8:92:4f:18:ee:a8:62:1c:29:71:2c:0b:c1:99:de:86:55:
8d:bb:7c:45:f9:0e:36:56:76:bd:64:6b:bc:33:a1:a8:9e:8a:
ea:1d:11:9f:f6:1a:89:0a:bf:13:41:b6:e0:72:88:ca:1b:d1:
02:9a:fa:91:cf:bb:fc:3a:cf:9a:b4:96:20:90:1c:8b:f8:7b:
a5:05:42:8d:37:6a:95:45:04:22:d7:f6:16:c1:34:c8:62:f6:
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dd:bb:24:0e:e7:fc:c3:49:46:27:7b:ad:c8:65:8b:00:09:d2:
54:e4:57:98:b7:11:2e:8e:06:b3:01:ea:57:4c:b0:09:22:ce:
f0:2a:65:4f:9f:60:90:84:13:b8:f9:78:9d:f0:f2:46:58:26:
4b:85:b5:c9:e0:00:b7:91:54:0c:9b:64:8a:5f:05:03:b0:8a:
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4e:4c:ea:b3:7a:b6:7e:8c:46:84:80:f0:be:81:d5:dc:73:b8:
2b:49:1b:f5:6c:1a:95:88:ec:4b:cb:da:fa:23:c5:a8:0c:72:
47:6e:2b:29:ee:70:ed:4b:97:5f:13:2d:88:1f:5d:37:b7:9b:
af:b8:00:6a:44:2b:91:b7:4a:04:ae:c9:74:72:ec:d3:59:d1:
0d:fe:d8:9e:30:26:9c:f0:86:25:53:71:e5:66:63:38:50:fc:
0a:c7:4d:e4:a6:a1:a3:83:ff:e3:b2:93:32:f5:31:81:e9:98:
4b:9f:a7:8e:03:47:f6:63:40:aa:d9:81:13:c4:f9:71:b0:f5:
3b:88:74:b0:5d:73:0f:d0:0d:6c:f2:59:16:7f:d7:69:6a:5e:
a9:05:58:1d:7b:81:42:0d:6e:64:df:73:b6:cf:14:b3:a2:40:
42:68:52:91:9c:68:8e:6a:d2:cb:e2:fd:9f:5e:a4:db:62:ad:
7e:25:62:84:6c:ad:7d:49:c1:c8:f1:55:83:eb:18:bf:80:7b:
59:6b:81:bb:f4:12:36:77:35:35:95:75:2a:4a:be:56:08:36:
8d:7e:46:50:86:3c:b5:58:e9:97:3a:09:82:bb:db:68:30:07:
04:cc:47:ec:9b:b1:e8:82:2b:61:64:eb:5d:5b:f5:17:18:59:
a7:c2:6e:08:64:04:2c:b4:83:7a:f8:24:dc:2c:3a:cc:7e:ce:
6c:d2:71:e7:c2:70:da:15:7d:06:1e:72:8f:bb:49:ab:af:a2:
5d:bc:49:a8:51:cb:03:a6:4c:5c:c7:bb:85:f4:cc:22:ad:f2:
d2:ed:bc:89:49:2d:c1:0a:47:2b:bc:03:8f:cb:cb:f1:72:8c:
99:e4:8c:89:0a:d3:c6:e7:36:6b:3d:f8:c6:ce:e4:20:e1:d5:
5c:0d:7a:8f:19:70:49:fc:c7:69:52:34:1d:8e:a7:41:34:4a:
ab:6e:44:20:04:97:a7:98:ab:21:65:79:f5:c1:21:5e:d5:74:
5c:8e:a1:af:2a:a7:6f:42:d6:ed:62:25:7b:0c:e4:ae:43:2f:
55:9c:3c:eb:36:fb:d2:95:a4:8a:7e:14:ab:2a:ec:c8:c7:91:
c0:ab:bb:30:c3:ce:61:b9:f8:62:6f:8e:50:97:d9:6e:f9:cc:
02:69:84:3a:dd:48:9e:03:c2:83:c2:f8:1e:95:e9:13:53:75:
5b:fe:08:e9:2b:c2:3d:57:67:58:a2:05:12:21:87:ef:62:b2:
28:c2:ec:29:fa:aa:d6:b0:bd:d5:32:72:fd:7a:6f:4f:f6:18:
d1:bb:87:a2:d4:01:ce:1b:e7:0d:cf:e7:e9:9b:b2:59:c4:aa:
9e:f0:ac:d8:73:14:27:a8:f6:5c:1b:de:46:00:55:04:8c:f6:
a1:39:92:12:07:36:72:f5:7f:da:ad:c7:8a:1f:8d:4c:43:4b:
97:ca:98:8d:eb:0b:1c:77:55:d5:35:07:e2:fd:af:e5:5a:40:
0c:ab:1d:58:7a:b2:37:8d:e7:bb:6b:a7:d5:a6:6a:ec:51:29:
d9:4c:b7:e6:8c:1e:43:24:6a:97:18:da:73:3d:0d:82:35:db:
68:bb:7e:6b:4f:60:fe:14:60:18:a2:1b:0e:21:26:8a:38:d6:
be:c9:b1:80:3a:4b:7a:e9:87:a1:1c:02:9c:88:f5:71:17:d2:

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49:01:79:ea:df:69:10:1d:f5:f7:27:67:c5:fb:35:e4:71:29:
63:f4:4f:8b:6d:a4:77:3f:2b:20:7b:75:71:6d:a4:e8:1e:9a:
c9:f8:33:48:9d:b1:ca:97:20:c0:9a:46:a6:27:82:0b

-----BEGIN CERTIFICATE-----
MIIJuzCCBaOgAwIBAgIUPIkmcadc7M1qnCCAKEcKLdOf9nYwDQYJKoZIhvcNAQEN
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BgNVBAYTAlROMB4XDTIyMDkyMTE2Mjc0NVoXDTQ3MDkyMTE2Mjc0NVowZTEdMBsG
A1UEAwwUVG5UcnVzdCBSb290IENBIC0gRzExNzA1BgNVBAoMLkFHRU5DRSBOQVRJ
T05BTEUgREUgQ0VSVElGSUNBVElPTiBFTEVDVFJPTklRVUUxCzAJBgNVBAYTAlRO
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WrOWK8/OrhT86BYR8TwGp05qpiC/i1QO0qAhJkV82lcIsPcsBTf/T9ZMnGc5tY05
FpviyRcI/LE8D92YHEHqvRokCgSTm7aR9biuX1Sd2YVdf0ODuCpqehQWSVmPqjFH
BnjCYtmfkNzxXmFHwcv9yIgS54Br7bghtGA0ErRg0EBHnoaiirmMfgVdcenWq75H
HrBhs/T0XrDeOpUNVKbgZ4XbN/Pqj2TI01ug9crrLBJ9mtuVs8rqBtk/RmSm/wTZ
5gWqIiws4HyU/Swsip6xxCh2+/HlL/WS6PhPYn3gEWFrPEvfY/PaA5KYCdtKev4H
Y9D4fGcHgM7S8rWdYiRCR5y01kcrhH/ET+qXbAMu1Y9fK3LX9KERQCDRyB3U638P
Z1OSEjbzkhE3jUJlbtoe+M0CWqaVV6VkNKa4iqOJRauYHMoxviT2Huk4IPgXGhtW
iPWTBQFcWmzmIDnSTqSHGqxsdy7upFcQ/02Jm5QuSHkIRCxI6ROUKOukn8GsGuXa
VaITNEr/Qx15AZCWfQeu50BVZw72GaEg76BHzcq4NABsNJEEeVltOXQGU8a1xco9
llspcEf5qwZ5N14QyVwb8dItaPoXsIEx3FE1RFN8TvHtDxJD6BCdM8aYHJeRxBm6
yUAtdW+RobajAJzFiZQ+4Gs1I59ihXSWFKPJGGhzMnclIsznxZpskFF6+I5pAa5Y
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vquTZb7GgKd3BdL6kAuEHkeSO/I1UaJSFOpoPbYpmZMATb7CxtkVcG/jxo82bLaW
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Deloitte.

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-----END CERTIFICATE-----

Deloitte.

TnTrustCAQSign1

```
Certificate:
    Data:
        Version: 3 (0x2)
        Serial Number:
            63:ad:02:6b:2f:40:b5:26:90:6c:38:d0:e6:d2:ad:8b:3d:f2:9e:30
        Signature Algorithm: sha256WithRSAEncryption
        Issuer: CN = TnTrust Root CA - G1, O = AGENCE NATIONALE DE CERTIFICATION ELECTRONIQUE, C
= TN
        Validity
            Not Before: Sep 21 17:57:31 2022 GMT
            Not After : Sep 21 17:57:31 2042 GMT
        Subject: CN = TnTrust CA - QSign1, O = AGENCE NATIONALE DE CERTIFICATION ELECTRONIQUE, C
= TN
        Subject Public Key Info:
            Public Key Algorithm: rsaEncryption
                Public-Key: (4096 bit)
                Modulus:
                    00:ae:da:cd:30:7e:39:04:2e:59:3c:35:b8:b9:d1:
                    e2:95:9f:c7:cc:f9:18:65:48:79:90:b0:ba:33:d2:
                    38:08:b1:7a:b2:cf:9e:b3:eb:25:17:a9:72:0b:3b:
                    34:4e:1b:7f:60:36:51:b1:2d:d7:bd:69:db:55:de:
                    6e:e9:be:b0:ff:1d:04:af:11:4f:69:08:f4:3e:63:
                    82:59:32:af:da:99:30:8d:89:ed:c6:76:95:5b:f7:
                    21:19:45:7c:50:18:65:09:57:be:34:42:4d:ed:21:
                    b0:5b:f9:bb:0f:08:7a:d7:19:e3:5e:b3:d9:0f:15:
                    12:38:39:f9:38:4d:41:40:8f:9b:5c:db:4d:81:ab:
                    8f:79:89:fb:a6:67:68:92:81:8d:af:ae:09:06:6f:
                    d0:c6:32:3f:e7:b8:45:40:9a:5c:16:a2:75:1b:95:
                    4e:ec:20:f9:06:65:35:25:d4:ff:c7:fc:b1:74:f4:
                    1f:91:c8:f4:4f:38:4b:b5:33:3b:a5:de:64:23:8e:
                    30:b8:e9:8c:34:3c:cc:76:9f:ef:a8:36:b4:0e:12:
                    d3:cc:be:f1:4a:fd:4f:9d:1e:97:81:70:a6:d4:d6:
                    e2:ef:f7:74:c1:82:a7:4e:52:49:53:ab:68:5b:2e:
                    81:2d:7b:c7:d9:c8:bc:90:8a:ba:11:85:35:ee:5d:
                    64:6b:d0:a9:26:c2:f9:4a:92:ab:80:8c:35:77:01:
                    a5:2a:f5:41:7f:17:a6:a8:b4:b5:50:43:42:65:50:
                    64:c5:b2:4e:62:f6:b3:02:65:fe:b6:f1:f0:8d:6d:
                    ac:1b:9b:ab:d1:ae:6c:c5:09:9f:3a:b0:14:1f:85:
                    ee:c3:f6:1e:f4:c0:e2:50:87:19:19:cb:7f:a1:ac:
                    e2:79:3c:f3:d3:8f:f2:6b:10:eb:cf:19:66:ae:ae:
                    e1:8a:2a:2a:05:5c:5d:a3:50:79:04:2f:2e:eb:1f:
                    44:1b:49:06:80:e2:1c:68:7c:87:b9:34:39:6d:3b:
                    ba:cd:b7:81:6f:c6:1a:e7:19:7d:72:d1:a4:f6:4b:
                    3e:2f:db:86:51:77:3b:cb:cd:b3:a3:8c:66:4e:2a:
                    6c:a9:09:ef:56:1f:d5:a3:11:f2:98:4f:4d:70:5f:
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                    f7:1f:9d:f4:93:68:89:4f:dc:26:f6:ca:bb:ed:c2:
                    c9:cc:f3:93:0a:c5:6c:7f:b2:46:98:31:ca:9a:ec:
                    e4:82:3b:01:4c:42:ac:28:43:55:75:d0:32:84:5f:
                    0a:d4:c8:8a:34:87:9a:4d:e8:2d:9f:dc:9f:8f:d7:
```

Deloitte.

```
            66:29:9e:ab:a3:00:b5:b7:6b:25:61:b7:ad:3d:c8:
            d4:d8:23
        Exponent: 65537 (0x10001)
    X509v3 extensions:
      Authority Information Access:
        CA Issuers - URI:http://www.tuntrust.tn/pub/tntrustrootcag1.crt
        OCSP - URI:http://va.tuntrust.tn
      X509v3 Subject Key Identifier:
        48:C0:C1:B5:B6:8B:12:36:14:36:66:09:A8:CB:25:5D:BA:21:69:78
      X509v3 Basic Constraints: critical
        CA:TRUE, pathlen:0
      X509v3 Authority Key Identifier:
        CB:A5:25:28:43:3E:52:E3:55:46:72:79:3D:6F:FC:A9:59:04:EB:56
      X509v3 Certificate Policies:
        Policy: 2.16.788.1.2.7.1.2.1
      X509v3 CRL Distribution Points:
        Full Name:
          URI:http://crl.tuntrust.tn/tntrustrootcag1.crl
      X509v3 Key Usage: critical
        Certificate Sign, CRL Sign
Signature Algorithm: sha256WithRSAEncryption
Signature Value:
    0c:14:f2:a0:fd:a0:29:37:fb:64:38:1a:99:99:9d:47:f7:d3:
    51:32:4f:ad:62:56:30:57:f2:14:ef:15:a2:52:23:9e:4c:8e:
    d0:15:55:d5:63:3e:ec:fa:68:67:c3:5d:18:e3:c6:47:5d:7d:
    c6:be:18:65:60:dc:18:d0:01:bc:a1:29:ee:bf:71:f6:85:c7:
    4f:17:e4:1a:59:0f:c9:df:24:2c:b3:01:39:16:f7:e5:05:af:
    32:26:51:f6:a0:dc:c7:e5:d0:95:24:45:0c:ba:3e:a8:c7:80:
    87:13:97:8e:87:37:94:db:b7:86:6f:14:9e:d7:b0:6a:07:a1:
    78:61:a6:a1:84:97:79:e9:dc:4a:f2:5e:eb:bc:8d:05:c6:51:
    cd:3d:14:bd:64:7e:a6:b4:36:79:1e:b3:a5:4e:79:5c:6e:d2:
    b3:75:bc:32:fb:73:b2:c9:a5:ef:5d:db:ea:06:dd:d8:e1:7d:
    a5:45:f2:62:00:17:10:87:1f:d1:62:e1:44:3a:de:37:94:2c:
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    a1:75:b0:df:bf:7b:41:0a:4e:b4:12:bf:28:72:1d:6e:98:ca:
    60:f2:5a:99:04:6d:e7:4e:69:8f:92:8e:3f:aa:7d:d3:5d:7f:
    b2:30:dd:16:17:33:ca:13:30:c8:6a:60:35:0b:c7:9d:7d:24:
    87:89:4e:79:1a:44:15:7c:81:38:08:8f:40:00:13:39:8b:0f:
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    7b:29:5b:d5:42:76:38:4e:a1:dc:6f:c5:a8:da:1a:34:4f:c8:
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    88:41:f0:47:78:53:09:69:8a:2d:a3:91:93:7e:b3:8a:cf:ea:
    b4:d1:15:57:78:2c:e9:eb:66:0f:62:dd:d0:6e:50:5c:f8:36:
    1e:08:11:d5:c2:13:ed:81:0e:8c:f3:28:b6:8c:a5:76:21:92:
    95:e6:84:ad:55:ee:b2:e2:68:00:0a:5a:db:36:f9:17:f5:cd:
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    b1:5f:82:10:e9:9d:ad:71:d7:f4:19:57:67:e3:b7:f5:08:5c:
    71:d0:f8:37:e4:ad:33:1d:27:2b:bc:2b:58:b2:dd:0a:6a:47:
    d7:88:dc:e1:55:da:26:b4:23:4a:c6:60:7a:de:b7:53:77:df:
    aa:94:11:8e:00:c7:59:1c:73:5e:b9:6c:9f:f0:66:84:b5:dd:
    8a:d4:3f:61:40:4e:73:39:fb:4b:f8:d1:8e:2b:3b:95:b8:72:
    f8:ac:ab:64:0b:ff:5b:6b:0a:3b:f5:27:92:d0:b2:83:0b:78:
```

Deloitte.

f7:e7:08:33:40:c4:39:69:ba:cb:3b:6b:31:b4:5b:96:28:38:
54:ca:af:74:03:ce:af:fc:77:04:dc:e3:00:f6:16:d4:d5:bc:
c6:d9:95:77:de:d5:b7:9e:0e:89:8a:52:d1:1b:5f:62:27:e6:
00:a0:cd:86:2f:f9:76:f3:32:f8:81:68:f4:e2:b6:98:1a:08:
b4:2c:df:d0:b8:b7:ef:2a:bc:a2:a4:a2:8c:85:df:1a:da:4d:
1f:d4:7e:90:4a:f7:14:55:95:de:c2:57:2f:ab:ad:e9:77:39:
8c:92:a3:af:96:45:96:06:40:8a:47:c5:05:49:3b:52:41:fd:
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6c:6c:82:31:cf:0d:90:d6:96:de:a8:f9:ea:bc:32:ea:1b:e6:
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37:c0:43:5d:ce:60:8e:8d:4b:2c:89:17:27:3f:c1:76:e6:75:
64:3a:c5:eb:bc:9e:77:ae:71:63:04:d9:4e:06:bc:08:35:f9:
41:30:04:87:ef:27:7a:83:9e:39:4d:6f:50:e6:34:1f:cf:fc:
d7:90:5b:1d:ac:9f:3b:96:b3:c2:8c:29:4b:49:e3:88:33:e8:
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-----END CERTIFICATE-----

tuntrust
Agence Nationale de Certification Electronique

TUNTRUST MANAGEMENT'S STATEMENT

Agence Nationale de Certification Electronique (« ANCE » or « TunTrust ») has deployed a public key infrastructure. As part of this deployment, it was necessary to create certificate authorities known as:

1. TnTrust Root CA – G1
2. TnTrust CA – QSign1

(Collectively, "TunTrust CAs"). In order to allow the CAs to be installed in a final and useable configuration, a Key Generation Ceremony was conducted, the purpose of which was to formally witness and document the creation of each CA's private signing key. This helps assure the non-refutability of the integrity of the TunTrust CA's key pairs, and in particular, the private signing keys.

TunTrust management has securely generated a key pair, consisting of a public and private key, in support of its CA operations. The key pairs were generated in accordance with procedures described in TunTrust's Certificate Policy (CP), Certification Practice Statement (CPS), and its Key Generation Scripts, which are in accordance with CA Key Generation Criterion 4.1 of the WebTrust Principles and Criteria for Certification Authorities v2.2.2

TunTrust management established and maintained effective controls over the generation of these keys. These controls were designed to provide reasonable assurance of adherence to the above-mentioned practices throughout the root key generation process.

TunTrust management is responsible for establishing and maintaining procedures over its CA root keys generations, and over the integrity and confidentiality of all private keys and access keys (including physical keys, tokens, and passwords) used in the establishment of the TunTrust CAs, and for the CA environmental controls relevant to the generation and protection of its CA keys.

TunTrust management has assessed the procedures and controls for the generation of the CA keys. Based on that assessment, in management's opinion, in generation and protecting its CA keys for the TunTrust CAs during the period 20 September 2022 to 23 September 2022 at Ariana, Tunisia, with the following identifying information:

CA Name	Subject Key Identifier
1.TnTrust Root CA – G1	CB:A5:25:28:43:3E:52:E3:55:46:72:79:3D:6F:FC:A9:59:04:EB:56
2.TnTrust CA – QSign1	48:C0:C1:B5:B6:8B:12:36:14:36:66:09:A8:CB:25:5D:BA:21:69:78

TunTrust has:

- followed the CA key generation and protection requirements in its:
    - TnTrust Sign PKI Certificate Policy / Certification Practice Statement Version 01, 23 September 2022 (CP/CPS)
- Included appropriate, detailed procedures and controls in its Key Generation scripts:
    - PV GAC 04 Key Ceremony Preparation 21 September 2022
    - PV GAC 09 Key Ceremony 21 September 2022
    - PV GAC 20 OCSP Ceremony 22 September 2022
    - PV GAC 06 Key Ceremony Finalisation 23 September 2022
- maintained effective controls to provide reasonable assurance that TunTrust CAs were generated and protected in conformity with the procedures described in its CP and CPS and its Key Generation Scripts

- performed, during the key generation process, the procedures required by the Key Generation Scripts
- generated the CA keys in a physically secured environment as described in its CP/CPS
- generated the CA keys using personnel in trusted roles under multiple person control and split knowledge
- generated the CA keys within cryptographic modules meeting the applicable technical and business requirements as disclosed in its CP and CPS

in accordance with CA Key Generation Criterion 4.1 of the WebTrust Principles and Criteria for Certification Authorities - Version 2.2.2.

Ramzi Khlif

Agence Nationale de Certification Electronique

21 octobre 2022