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Your ref PKI Assessment
TrustFactory (SSL)
Our ref TrustFactory_CYBE
R19_O_Webtrust
PKI Accreditation
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Contact Duffield, Devon
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05 December 2019

Independent Assurance Report

To the Management of TrustFactory Certification Authority (“TrustFactory-CA”)

Scope

We have undertaken a reasonable assurance engagement, to report on TrustFactory-CA Management’s Assertion that for its Certification Authority (CA) operations at Rosebank Operations Centre (6th Floor, 16 Baker Street, Rosebank, Johannesburg, 2196 (Rosebank Office Park)) and the Bryanston Data Centre Vault (57 Sloane Str., Bryanston), throughout the period 08 October 2018 to 07 October 2019 for its CAs as enumerated in [Appendix A](#), TrustFactory-CA has:

- Disclosed its SSL certificate lifecycle management business practices in its
 - [TrustFactory CP, v1.5, dated 05 March 2019;](#)
 - [TrustFactory SSL ROOT CA CPS, v1.5, dated 26 March 2019;](#) and
 - [TrustFactory SSL ISSUING CA CPS, v1.5, dated 21 November 2018,](#)

including its commitments to provide SSL certificates in conformity with the CA/Brower Forum Requirements on the TrustFactory-CA website, and provided such services in accordance with its disclosed practices.



- Maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and SSL certificates it manages is established and protected throughout their lifecycles; and
 - SSL subscriber information is properly authenticated (for the registration activities performed by TrustFactory-CA).
- 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,
- 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* as of the audit period described above.

in accordance with the WebTrust Trust Service Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.3.

TrustFactory does not escrow its CA keys, does not provide subscriber key generation services, and does not provide certificate suspension services. Accordingly, our procedures did not extend to controls that would address those criteria.

Certification authority's responsibilities

TrustFactory-CA's management is responsible for its assertion, including the fairness of its presentation, and the provision of its described services in accordance with the WebTrust Trust Service Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.3.

Our independence and quality control

We have complied with the independence and other ethical requirements of Sections 290 and 291 of the Independent Regulatory Board for Auditors' *Code of Professional Conduct for Registered Auditors (Revised January 2018)* and parts 1 and 3 of the Independent Regulatory Board for Auditors' *Code of Professional Conduct for Registered Auditors (Revised November 2018)* (together the IRBA Codes), which are founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour. The IRBA Codes are consistent with the corresponding sections of the International Ethics Standards Board for Accountants' *Code of Ethics for Professional Accountants (including International Independence Standards)* respectively.



The firm applies International Standard on Quality Control 1, 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 Assertion based on our procedures. We conducted our engagement in accordance with International Standard on Assurance Engagements 3000 (Revised), *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 assertion is fairly stated, and, accordingly, included:

- obtaining an understanding of TrustFactory-CA's SSL certificate lifecycle management business practices, including its relevant controls over the issuance, renewal, and revocation of SSL certificates, and obtaining an understanding of TrustFactory's network and certificate system security to meet the requirements set forth by the CA/Browser Forum;
- selectively testing transactions executed in accordance with disclosed SSL certificate lifecycle management practices.;
- testing and evaluating the operating effectiveness of the controls; and
- 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 TrustFactory-CA 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

Because of the nature and inherent limitations of controls, TrustFactory-CA's ability to meet the aforementioned criteria may be affected. 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.



Opinion

In our opinion, throughout the period 08 October 2018 to 07 October 2019, TrustFactory-CA Management's Assertion, as referred to above, is fairly stated, in all material respects, in accordance with the WebTrust Trust Service Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.3.

This report does not include any representation as to the quality of TrustFactory-CA's services beyond those covered by the WebTrust Trust Service Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.3, nor the suitability of any of TrustFactory-CA's services for any customer's intended purpose.

Restriction on use

As indicated, this report is for the purpose of providing information to the CPA Web Trust Certification Authorities in order to obtain Web Trust Certification and may not be suitable for any other purpose

Use of WebTrust's seal

TrustFactory's use of the WebTrust for Certification Authorities-SSL Baseline with 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.

Yours faithfully

KPMG Inc.

A handwritten signature in blue ink, appearing to read 'Devon C Duffield', written over a faint, illegible stamp.

Per Devon C Duffield
Chartered Accountant (SA)
Registered Auditor
Director



Appendix A – In Scope CAs

CA Distinguished Name	SHA256 Fingerprint	SHA1 Fingerprint
CN = TrustFactory SSL Root Certificate Authority OU = TrustFactory PKI Operations O = TrustFactory(Pty)Ltd L = Johannesburg S = Gauteng C = ZA	60 81 42 DA 5C 67 5D D4 7C 1A A3 A2 6E E3 29 E2 4E 81 D5 FF 3B 94 01 7B C1 C1 A0 C3 7D B4 C1 A0	d1 14 78 e8 e5 fb 62 54 05 93 d2 2c 51 57 0d 01 4e ac 76 d8
CN = TrustFactory SSL Issuing Certificate Authority OU = TrustFactory PKI Operations O = TrustFactory(Pty)Ltd L = Johannesburg S = Gauteng C = ZA	55 3D D1 6E C1 C1 FE 49 96 89 FA FC 17 6A EB 88 19 ED CA 29 42 7D 60 8B 19 88 76 4D 12 D9 91 68	2c 6c aa 0f 78 6b 1a 35 15 1e 38 58 74 74 28 f4 7c 8c 15 5e

TRUSTFACTORY-CA MANAGEMENT'S ASSERTION

TrustFactory Certificate Authority ("TrustFactory-CA") operates the Certification Authority (CA) services known and enumerated in [Appendix A](#), and provides SSL CA services.

TrustFactory-CA management has assessed its disclosures of its certificate practices and controls over its EV SSL CA services. Based on the assessment, in providing its SSL [and non-SSL] Certification Authority (CA) services at Rosebank Operations Centre (6th Floor, 16 Baker Street, Rosebank, Johannesburg, 2196 (Rosebank Office Park)) and the Bryanston Data Centre Vault (57 Sloane Str., Bryanston), throughout the period 08 October 2018 to 07 October 2019, has:

- disclosed its SSL certificate lifecycle management business practices in its:
 - [TrustFactory CP, v1.5, dated 05 March 2019](#);
 - [TrustFactory SSL ROOT CA CPS, v1.5, dated 26 March 2019](#); and
 - [TrustFactory SSL ISSUING CA CPS, v1.5, dated 21 November 2018](#)including its commitment to provide SSL certificates in conformity with the CA/Browser Forum Requirements on the TrustFactory-CA website, and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and SSL certificates it manages is established and protected throughout their lifecycles;
 - SSL subscriber information is properly authenticated (for the registration activities performed by TrustFactory-CA)
- 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
- 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 – SSL Baseline with Network Security v2.3



Jayesh Nana
Chief Executive Officer
05/12/2019

Appendix A – In Scope CAs

CA Distinguished Name	SHA256 Fingerprint	SHA1 Fingerprint
CN = TrustFactory SSL Root Certificate Authority OU = TrustFactory PKI Operations O = TrustFactory(Pty)Ltd L = Johannesburg S = Gauteng C = ZA	60 81 42 DA 5C 67 5D D4 7C 1A A3 A2 6E E3 29 E2 4E 81 D5 FF 3B 94 01 7B C1 C1 A0 C3 7D B4 C1 A0	d1 14 78 e8 e5 fb 62 54 05 93 d2 2c 51 57 0d 01 4e ac 76 d8
CN = TrustFactory SSL Issuing Certificate Authority OU = TrustFactory PKI Operations O = TrustFactory(Pty)Ltd L = Johannesburg S = Gauteng C = ZA	55 3D D1 6E C1 C1 FE 49 96 89 FA FC 17 6A EB 88 19 ED CA 29 42 7D 60 8B 19 88 76 4D 12 D9 91 68	2c 6c aa 0f 78 6b 1a 35 15 1e 38 58 74 74 28 f4 7c 8c 15 5e