



PAG
PRINCETON AUDIT GROUP



**Certification Authority Trust Principles and
Criteria 2.0**

Independent Auditors Report

December 1, 2016 to November 30, 2017.

TrustCor Systems S. de R.L.

Toronto, Canada.

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SECTION 1

Independent Service Auditors' Report
Year 2017
Princeton Audit Group (PAG)

The Board of Directors
TrustCor Systems S. de R.L.
371 Front street West, # 123
Toronto, ON. M5V 3S8
CANADA

We have examined the [assertion](#) by the management of TrustCor Systems S. de R.L. (TrustCor-CA) for its Certification Authority (CA) operations at Toronto, Ontario, Canada, throughout the period December 1st, 2016 to November 30th, 2017 for its CA's as enumerated in Attachment A, TrustCor-CA has:

- Disclosed its business, key lifecycle management, certificate lifecycle management and CA environmental control practices in its:
 - TrustCor v 1.3.3 Policy Statement
 - TrustCor v 1.3.3 Practice statement
- Maintained effective controls to provide reasonable assurance that:
 - TrustCor-CA Certification Practice statement is consistent with its Certificate Policy
 - TrustCor-CA provides its services in accordance with its Certificate Policy and Certificate Practice Statements
- Maintained effective controls to provide reasonable assurance that:
 - The integrity of keys and certificates it manages is established and protected throughout their lifecycles;
 - The integrity of subscriber keys and certificates it manages is established and protected throughout their lifecycles;
 - Subscriber information is properly authenticated (for registration activities performed by TrustCor-CA; and
 - Subordinate CA certificate requests are accurate, authenticated and approved.

- Maintained effective controls to provide reasonable assurance that:
 - Logical and physical access to CA systems and data is restricted to authorized individuals;
 - The continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity.

TrustCor-CA's management is responsible for these disclosures and for maintaining effective controls based on the WebTrust Principles and Criteria for Certification Authority v2.0. Our responsibility is to express an opinion based on our examination.

The relative effectiveness and significance of specific controls at TrustCor-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. Our examination did not extent to controls at individual subscriber and relying party locations and we have not evaluated the effectiveness of such controls.

Our examination was conducted in accordance with Section 101, Attestation Engagements (AICPA, Professional Standard established by the American Institute of Certified Public Accountants. Those standards require that we plan and perform the examination to obtain reasonable assurance about whether, throughout the period December 1st, 2016 to November 30th, 2017, for CAs as enumerated in Attachment A, in all material respects, TrustCor-CA's management assertion has been fairly stated.

Because of the nature and inherent limitations of controls, TrustCor-CA's ability to meet the aforementioned criteria may be affected. For example, controls may not prevent, or detect and correct, error, fraud, unauthorized 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.

In our opinion management's assertion, as referred to above, is fairly stated, in all material respects.

This report does not include any representation as to the quality of TrustCor-CA's services other than its CA operations in Toronto, Canada nor the suitability of any TrustCor-CA's services for any customer's intended purposes.

TrustCor-CA'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 the report or provide any additional assurance

Vijay Khosla, CPA.CITP, CISA, CISM.



Managing Partner

12/15/2017.

*Princeton Audit Group, Inc.
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ATTACHMENT “ A”

Certificate Policy and Certificate Practice Statements

VERSIONS USED DURING THE AUDIT PERIOD

- For the period: Dec 1st 2016 — April 18th 2017
 - Certification Practices Statement, version 1.3.0
 - Certificate Policy, version 1.3.0
- For the period: April 19th 2017 – August 13th 2017
 - Certification Practices Statement, version 1.3.1
 - Certificate Policy, version 1.3.1
- For the period: August 14th 2017 – August 14th 2017
 - Certification Practices Statement, version 1.3.2
 - Certificate Policy, version 1.3.2
- For the period: August 15th 2017 – November 30th 2017
 - Certification Practices Statement, version 1.3.3
 - Certificate Policy, version 1.3.3

Which describe the following in-scope Root and Subordinate CAs:

CA ID	Subject	Issuer	Serial	Key Type	Sig Alg	Not Before	Not After	SKI	SHA-256 Fingerprint
Root CA Certificates									
CA-1	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-1	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-1	da:9b:ec:71:f3:03:b0:19	RSA/ 4096	SHA256/ RSA	Feb 4 12:32 :16 2016 GMT	Dec 31 17:23: 16 2029 GMT	EE:6B:49:3C:7A:3F: 0D:E3:B1:09:B7:8A :C8:AB:19:9F:73:33 :50:E7	d40e9c86cd8fe468c17769 59f49ea774fa548684b6c40 6f3909261f4dce2575c
CA-2	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate	25:a1:df:ca:33:cb:59:02	RSA/ 4096	SHA256/ RSA	Feb 4 12:32 :23 2016 GMT	Dec 31 17:26: 39 2034 GMT	D9:FE:21:40:6E:94: 9E:8C:9B:3D:9C:7D :98:20:19:E5:8C:30 :62:B2	0753e940378c1bd5e3836e 395daea5cb839e5046f1bd 0eae1951cf10fec7c965

	Authority, CN=TrustCor RootCert CA-2	Authority, CN=TrustCor RootCert CA-2							
ECA-1	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor ECA-1	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor ECA-1	84:82:2c:5f:1c:62:d0:40	RSA/ 2048	SHA256/ RSA	Feb 4 12:32 :33 2016 GMT	Dec 31 17:28: 07 2029 GMT	44:9E:48:F5:CC:6D: 48:D4:A0:4B:7F:FE: 59:24:2F:83:97:99: 9A:86	5a885db19c01d912c57593 88938cafbbdf031ab2d48e9 1ee15589b42971d039c
DV SSL Subordinate CA Certificates									
CA1-Site	C=PA, ST=Panama, O=TrustCor Systems S. de R.L., OU=TrustCor Network, CN=TrustCor Basic Secure Site (CA1)	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-1 [CA-1]	ff:04:3b:9f:67:7c:dc:49	RSA/ 4096	SHA512/ RSA	Feb 4 13:05 :21 2016 GMT	Dec 30 16:20: 10 2029 GMT	B7:38:A7:99:92:D7 :C6:AA:4E:FB:3E:D 3:1C:4E:BD:19:C8: E9:92:4D	fe1ecadbdee0e558068ddb c7b33ab78dd57d0dc22fcc 1c360119010375b0a61b
CA1-Site 2048	C=PA, ST=Panama, O=TrustCor Systems S. de R.L., OU=TrustCor Network, CN=TrustCor Basic Secure Site 2048 (CA1)	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-1 [CA-1]	60:b9:a6:16:70:dd:48:f9	RSA/ 2048	SHA256/ RSA	Feb 5 11:47 :59 2016 GMT	Dec 30 16:20: 10 2029 GMT	70:89:27:66:D4:13: BB:EE:03:57:1D:89 :52:94:89:09:19:7B :6D:17	4efaaa1040ac2f44d3dee20 6d9522a288d84ec38ddf59 298c926e02f4c9d9aef
OV SSL Subordinate CA Certificates									
CA2-Site	C=PA, ST=Panama, O=TrustCor Systems S. de R.L., OU=TrustCor Network, CN=TrustCor Enhanced Secure Site (CA2)	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-2 [CA-2]	96:6b:e5:90:bb:23:ef:2a	RSA/ 4096	SHA512/ RSA	Feb 5 12:04 :05 2016 GMT	Dec 30 16:20: 10 2029 GMT	91:F7:F1:FC:8E:0A: 76:BE:FA:E6:00:05: AF:D7:02:A2:24:CD :5A:9E	3830db8ea1520b6cdf57e1 e00a5f1297be11d9e6430c 83607176212f85d2db8
Email S/MIME Subordinate CA Certificates									
CA1-Email	C=PA, ST=Panama, O=TrustCor Systems S. de R.L., OU=TrustCor Network, CN=TrustCor Basic Secure Email (CA1)	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-1 [CA-1]	a6:0d:88:32:19:a3:fd:59	RSA/ 4096	SHA512/ RSA	Feb 5 11:36 :50 2016 GMT	Dec 30 16:20: 10 2029 GMT	E4:0B:1D:5B:9A:A A:7E:C9:C6:6B:64: 38:76:71:C0:76:CA :97:29:3A	02bef922b32d46dfe7520b 0ee7e3eaf588ee2b9cab81 b84837e6b955e0759a90
CA2-Email	C=PA, ST=Panama, O=TrustCor Systems S. de R.L., OU=TrustCor Network, CN=TrustCor Enhanced Secure Email (CA2)	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-2 [CA-2]	0a:f3:e6:12:40:47:17:52	RSA/ 4096	SHA512/ RSA	Feb 5 11:50 :28 2016 GMT	Dec 30 16:20: 10 2029 GMT	A8:25:C6:DE:84:F4 :28:7A:6C:7A:A6:0 3:65:94:51:0A:16: AC:C9:FE	a6d365161b58539cb44b29 d77c648126f33db3c49311 6c3040e18de3e01a4242
Externally Operated CA Subordinate CA Certificates									
ECA-1 EI	C=PA, ST=Panama,	C=PA, ST=Panama,	82:bf:64:fe:9d	RSA/ 2048	SHA256/ RSA	Feb 5	Dec 30 16:20:	66:C9:D2:44:CC:AD :A5:D6:96:D3:04:1	7882d9faa49a8bb351f0fc6 ed685ef1fc51541d0ce0a042

	O=TrustCor Systems S. de R.L., OU=TrustCor Network, CN=TrustCor External PKI (ECA1)	L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor ECA-1 [ECA-1]				12:10 :46 2016 GMT	10 2029 GMT	2:DF:1D:C5:88:0F: 5C:8D:BA	22074d1d9e16fdc30b
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SECTION 2



**Assertion of Management as to its Disclosure of its Business Practices and its Controls
Over its Certification Authority Operations during the period from
December 1st, 2016 through November 30th, 2017**

December 15, 2017

TrustCor Systems S. de R.L. (TrustCor) operates various Certification Authorities (CAs) which provide a range of CA services. These CAs include the TrustCor RootCert CA-1, the TrustCor RootCert CA-2 and the TrustCor ECA-1; the operations of which are described more fully in TrustCor's [Certificate Policy](#) (CP) and [Certification Practice Statement](#) (CPS). A full listing of the Root CAs and Subordinate CAs and their respective functions is in appendix A to this assertion letter.

To that end, we have subjected our certification authority business practices to the appropriate audit level in the form of the AICPA (USA)/CPA Canada WebTrust® for Certification Authorities. TrustCor Systems also asserts its commitment to provide certificates in conformity with the CA/Browser Forum Baseline Requirements. TrustCor CA issues browser trusted certificates to the general public for the purposes of Secure Email (S/MIME) and Web PKI endpoint protection; it does not currently issue certificates to the public for any other purpose (e.g. Code Signing, Timestamping, etc.). Below are our assertions which have been audited by Princeton Audit Group in accordance with:

- AICPA (USA)/CPA Canada [WebTrust® Principles and Criteria for Certification Authorities - Version 2.0](#)

TrustCor provides the following certification authority services through its CAs:

- Subscriber registration
- Certificate renewal
- Certificate issuance
- Certificate distribution
- Certificate revocation
- Certificate validation
- Certificate status information processing

Management of TrustCor is responsible for establishing and maintaining effective controls over its CA operations, including CA business practices disclosure in its Certification Practice Statement (the latest version of which is available via the company website on <http://www.trustcorsystems.com/resources/cps.pdf>), service integrity (including key and certificate life cycle management controls), and CA environmental controls. These controls contain monitoring mechanisms, and actions are taken to correct deficiencies identified.

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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 provide only reasonable assurance with respect to TrustCor's CA operations. Furthermore because of changes in conditions, the effectiveness of controls may vary over time.

Management of TrustCor has assessed the controls over its CA operations. Based on that assessment, in TrustCor Management's opinion, in providing its Certification Authority (CA) services, from its business division headquarters in Toronto [Ontario, Canada], with its principal data center in Phoenix [Arizona, USA] and secondary data center in Curaçao [Netherlands Antilles]) during the period from December 1, 2016 through November 30, 2017, TrustCor has:

- Disclosed its Key Life Cycle Management, Certificate Life Cycle Management, and CA Environmental Control policies in its Certificate Policy and Certification Practices Statement;
- Maintained effective controls to provide reasonable assurance that:
 - Subscriber information was properly authenticated (for the registration activities performed by TrustCor);
 - The Certificate Practices Statement is consistent with its published Certificate Policy (available on the website at <http://www.trustcorsystems.com/resources/cp.pdf>), and that all services provided are properly described by those CP and CPS documents.
 - The integrity of keys and certificates it managed were established and protected throughout their life cycles;
 - Subscriber and relying party information was restricted to authorized individuals and protected from uses not specified in the CA's business practices disclosure;
 - The continuity of key and certificate life cycle management operations was maintained, and
 - CA systems development, maintenance and operations were properly authorized and performed to maintain CA systems integrity.

In accordance with the WebTrust® for Certification Authorities criteria - Version 2.0 (WebTrust® 2.0) based on the AICPA (USA)/CPA Canada WebTrust® for Certification Authorities criteria including the following:

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CA Business Practices Disclosure

Service Integrity

Key Life Cycle Management Controls

- CA Key Generation
- CA Key Storage, Backup, and Recovery
- CA Public Key Distribution
- CA Key Usage
- CA Key Destruction
- CA Key Archival
- CA Cryptographic Hardware Life Cycle Management

Certificate Life Cycle Management Controls

- Subscriber Registration
- Certificate Renewal
- Certificate Issuance
- Certificate Distribution
- Certificate Revocation
- Certificate Status Information Processing

CA Environmental Controls

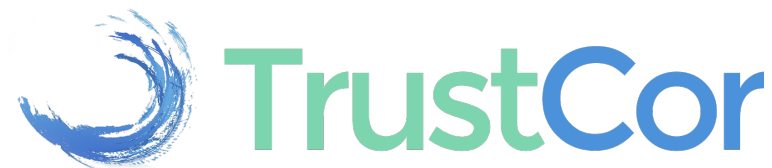
- Certification Practice Statement and Certificate Policy Management
- Security Management
- Asset Classification and Management
- Personnel Security
- Physical and Environmental Security
- Operations Management
- System Access Management
- Systems Development and Maintenance
- Business Continuity Management
- Monitoring and Compliance
- Event Journaling

Our commitment to these principles and criteria is ongoing and subject to audit every twelve months to verify our continuing compliance with the AICPA (USA)/CPA Canada WebTrust® for Certification Authorities criteria.

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Rachel McPherson
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Appendix A – List of Root and Subordinate CAs in Scope

CA ID	Subject	Issuer	Serial	Key Type	Sig Alg	Not Before	Not After	SKI	SHA-256 Fingerprint
Root CA Certificates									
CA-1	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-1	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-1	da:9b:ec:71:f3:03:b0:19	RSA/4096	SHA256/RSA	Feb 4 12:32:16 2016 GMT	Dec 31 17:23:16 2029 GMT	EE:6B:49:3C:7A:3F:0D:E3:B1:09:B7:8A:C8:AB:19:9F:73:33:50:E7	d40e9c86cd8fe468c1776959f49ea774fa548684b6c406f3909261f4dce2575c
CA-2	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-2	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-2	25:a1:df:ca:33:cb:59:02	RSA/4096	SHA256/RSA	Feb 4 12:32:23 2016 GMT	Dec 31 17:26:39 2034 GMT	D9:FE:21:40:6E:94:9E:BC:9B:3D:9C:7D:98:20:19:E5:8C:30:62:B2	0753e940378c1bd5e3836e395daea5cb839e5046f1bd0eae1951cf10fec7c965
ECA-1	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor ECA-1	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor ECA-1	84:82:2c:5f:1c:62:d0:40	RSA/2048	SHA256/RSA	Feb 4 12:32:33 2016 GMT	Dec 31 17:28:07 2029 GMT	44:9E:48:F5:CC:6D:48:D4:A0:4B:7F:FE:59:24:2F:83:97:99:9A:86	5a885db19c01d912c5759388938cafbddf031ab2d48e91ee15589b42971d039c
DV SSL Subordinate CA Certificates									
CA1-Site	C=PA, ST=Panama, O=TrustCor Systems S. de R.L., OU=TrustCor Network, CN=TrustCor Basic Secure Site (CA1)	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-1 [CA-1]	ff:04:3b:9f:67:7c:dc:49	RSA/4096	SHA512/RSA	Feb 4 13:05:21 2016 GMT	Dec 30 16:20:10 2029 GMT	B7:38:A7:99:92:D7:C6:AA:4E:FB:3E:D3:1C:4E:BD:19:C8:E9:92:4D	fe1ecadbdee0e558068ddbc7b33ab78dd57d0dc22fcc1c360119010375b0a61b
CA1-Site 2048	C=PA, ST=Panama, O=TrustCor Systems S. de R.L., OU=TrustCor Network, CN=TrustCor Basic Secure Site 2048 (CA1)	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-1 [CA-1]	60:b9:a6:16:70:dd:48:f9	RSA/2048	SHA256/RSA	Feb 5 11:47:59 2016 GMT	Dec 30 16:20:10 2029 GMT	70:89:27:66:D4:13:BB:EE:03:57:1D:89:52:94:89:09:19:7B:6D:17	4efaaa1040ac2f44d3dee206d9522a288d84ec38ddf59298c926e02f4c9d9aef
OV SSL Subordinate CA Certificates									

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CA2-Site	C=PA, ST=Panama, O=TrustCor Systems S. de R.L., OU=TrustCor Network, CN=TrustCor Enhanced Secure Site (CA2)	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-2 [CA-2]	96:6b:e5:90:bb:23:ef:2a	RSA/4096	SHA512/RSA	Feb 5 12:04:05 2016 GMT	Dec 30 16:20:10 2029 GMT	91:F7:F1:FC:8E:0A:76:BE:FA:E6:00:05:AF:D7:02:A2:24:CD:5A:9E	3830db8ea1520b6cdf57e1e00a5f1297be11d9e6430c83607176212ff85d2db8
Email S/MIME Subordinate CA Certificates									
CA1-Email	C=PA, ST=Panama, O=TrustCor Systems S. de R.L., OU=TrustCor Network, CN=TrustCor Basic Secure Email (CA1)	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-1 [CA-1]	a6:0d:88:32:19:a3:fd:59	RSA/4096	SHA512/RSA	Feb 5 11:36:50 2016 GMT	Dec 30 16:20:10 2029 GMT	E4:0B:1D:5B:9A:AA:7E:C9:C6:6B:64:38:76:71:C0:76:CA:97:29:3A	02bef922b32d46dfe7520b0ee7e3eaf588ee2b9cab81b84837e6b955e0759a90
CA2-Email	C=PA, ST=Panama, O=TrustCor Systems S. de R.L., OU=TrustCor Network, CN=TrustCor Enhanced Secure Email (CA2)	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor RootCert CA-2 [CA-2]	0a:f3:e6:12:40:47:17:52	RSA/4096	SHA512/RSA	Feb 5 11:50:28 2016 GMT	Dec 30 16:20:10 2029 GMT	A8:25:C6:DE:84:F4:28:7A:6C:7A:A6:03:65:94:51:0A:16:AC:C9:FE	a6d365161b58539cb44b29d77c648126f33db3c493116c3040e18de3e01a4242
Externally Operated CA Subordinate CA Certificates									
ECA-1 External	C=PA, ST=Panama, O=TrustCor Systems S. de R.L., OU=TrustCor Network, CN=TrustCor External PKI (ECA1)	C=PA, ST=Panama, L=Panama City, O=TrustCor Systems S. de R.L., OU=TrustCor Certificate Authority, CN=TrustCor ECA-1 [ECA-1]	82:25:5d:04:bf:64:fe:9d	RSA/2048	SHA256/RSA	Feb 5 12:10:46 2016 GMT	Dec 30 16:20:10 2029 GMT	66:C9:D2:44:C C:AD:A5:D6:9 6:D3:04:12:DF:1D:C5:88:0F:5C:8D:BA	7882d9faa49a8bb351f0fc6ed685ef1fc51541d0ce0a4222074d1d9e16fdc30b

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**Assertion of Management Regarding Generation of CA Private Key and Certificate Material
during the period December 1, 2016 through November 30, 2017**

December 15, 2017

TrustCor Systems S. de R.L. (TrustCor) has deployed a public key hierarchy which it uses in support of its Certification Authority (CA) business. From time to time, the company must generate new private key material for its CA key pairs, according to the relevant sections of WebTrust Principles and Criteria for Certification Authorities v2.0 (specifically, section 4.1).

TrustCor Management asserts that during the period of December 1, 2016 through November 30, 2017, **no** private key material has been generated under the aegis of that document. Where such new key material is generated in the future, TrustCor commits to follow the Key Generation Ceremonies, witnessed by a qualified auditor, and such key pairs will be disclosed in its Certificate Practice Statements, which is available on the website <http://www.trustcorsystems.com/resources/cps.pdf>.

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