



Independent practitioner's assurance report

2020/BJ-0099

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To the management of iTrusChina Co., Ltd ("iTrusChina"):

We have been engaged to perform a reasonable assurance engagement on the accompanying management's assertion of iTrusChina Co., Ltd ("iTrusChina") for its Certification Authority – Extended Validation SSL operations for the period from January 9, 2019 to January 8, 2020.

Management's Responsibilities

iTrusChina'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 Principles and Criteria for Certification Authorities – Extended Validation SSL – Version 1.6.8](#).

Our Independence and Quality Control

We have complied with the independence and other ethical requirement of the International Code of Ethics for Professional Accountants (including International Independence Standards) 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 behaviour.

Our 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

It is our responsibility to express an opinion on the accompanying management's assertion of iTrusChina based on our work performed.

We conducted our work in accordance with the International Standard on Assurance Engagements 3000 (Revised) "Assurance Engagements Other Than Audits or Reviews of Historical Financial Information". This standard requires that we plan and perform our work to form the opinion.

A reasonable assurance engagement involves performing procedures to obtain sufficient appropriate evidence whether the management's assertion of iTrusChina is fairly stated, in all material respects, in accordance with [WebTrust Principles and Criteria for Certification Authorities – Extended Validation SSL – Version 1.6.8](#).

The extent of procedures selected depends on the practitioner's judgment and our assessment of the engagement risk. Within the scope of our work, we performed amongst others the following procedures:

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- (1) obtaining an understanding of iTrusChina's EV SSL certificate lifecycle management business practices, including its relevant controls over the issuance, renewal, and revocation of EV SSL certificates;
- (2) selectively testing transactions executed in accordance with disclosed EV SSL certificate lifecycle management practices;
- (3) testing and evaluating the operating effectiveness of the controls, and
- (4) performing such other procedures as we considered necessary in the circumstances.

The relative effectiveness and significance of specific controls at iTrusChina 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 subscribers and relying party locations. We do not provide any assurance on the effectiveness of controls at individual subscribers and relying party locations.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Inherent Limitation

We draw attention to the fact that [WebTrust Principles and Criteria for Certification Authorities – Extended Validation SSL – Version 1.6.8](#) includes certain inherent limitations that can influence the reliability of the information.

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.

Opinion

In our opinion, the accompanying management's assertion of iTrusChina, for the period from January 9, 2019 to January 8, 2020, is fairly stated, in all material respects, in accordance with [WebTrust Principles and Criteria for Certification Authorities – Extended Validation SSL – Version 1.6.8](#).

Emphasis of Matter

Without modifying our opinion, we draw attention to the fact that this report does not include any representation as to the quality of iTrusChina's services beyond those covered by the [WebTrust Principles and Criteria for Certification Authorities – Extended Validation SSL – Version 1.6.8](#), nor the suitability of any of the iTrusChina's services for any customer's intended purpose.


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Other Matter

iTrusChina's use of the WebTrust for Certification Authorities Seal constitutes a symbolic representation of the contents of this report and it is not intended, nor should it be construed, to update this report or provide any additional assurance.

Purpose and Restriction on Use and Distribution

The accompanying management's assertion of iTrusChina was prepared for obtaining and displaying the WebTrust Seal¹ on its website using [WebTrust Principles and Criteria for Certification Authorities – Extended Validation SSL – Version 1.6.8](#) designed for this purpose. As a result, the accompanying management's assertion of iTrusChina may not be suitable for another purpose. This report is intended solely for the Management of iTrusChina in connection with obtaining and displaying the WebTrust Seal on its website after submitting the report to the related authority in connection with the [WebTrust Principles and Criteria for Certification Authorities – Extended Validation SSL – Version 1.6.8](#) and should not be distributed to or used by any other parties for any other purpose. We do not assume responsibility towards or accept liability to any other person for the contents of this report.


Praveen Kumar
PricewaterhouseCoopers Zhong Tian LLP Beijing Branch

Beijing, China

March 25, 2020



¹ The maintenance and integrity of the iTrusChina website is the responsibility of the directors. The work carried out by the assurance provider does not involve consideration of these matters and, accordingly, the assurance provider accepts no responsibility for any differences between the accompanying assertion by the management of iTrusChina on which the assurance report was issued or the assurance report that was issued and the information presented on the website.

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March 25, 2020

Dear Sirs,

Assertion by Management of iTrusChina Co.,Ltd. regarding its Disclosure of Business Practices and its Controls over its Extended Validation SSL Operations during the period of January 9, 2019 through January 8, 2020.

iTrusChina Co.,Ltd. (“iTrusChina”) operates the Certification Authority (CA) services known as listed in the **Appendix**, and provides Extended Validation SSL (“EV SSL”) CA services.

Management of iTrusChina Co.,Ltd. (“iTrusChina”) is responsible for establishing and maintaining effective controls over its EV SSL operations, including its EV SSL business practices disclosure on its website, EV SSL key lifecycle management controls, and EV SSL certificate lifecycle management controls. These controls contain monitoring mechanisms, and actions are taken to correct deficiencies identified.

There are inherent limitations in any controls, including the possibility of human error, and the circumvention or overriding of controls. Accordingly, even effective controls can only provide reasonable assurance with respect to iTrusChina’s Certification Authority operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

Management of iTrusChina has assessed its disclosures of its certificate practices and controls over its CA-EV SSL services. The key and certificates covered in our assessment are listed in the **Appendix** of this letter. Based on that assessment, in iTrusChina management’s opinion, in providing its EV SSL Certification Authority (CA) services at Mainland China, during the period of January 9, 2019 through January 8, 2020, iTrusChina has:

- disclosed its extended validation SSL (“EV SSL”) certificate lifecycle management business practices in its:
 - [ITRUSCHINATM CERTIFICATION PRACTICE STATEMENT-v1.3.1](#); and
 - [ITRUSCHINATM CERTIFICATIE POLICY-v1.3](#)including its commitment to provide EV SSL certificates in conformity with the CA/Browser Forum Guidelines on the iTrusChina website, and provided such services in accordance with its disclosed practices;
- maintained effective controls to provide reasonable assurance that:
 - The integrity of keys and EV SSL certificates it manages is established and protected throughout their life cycles; and
 - EV SSL subscriber information is properly authenticated (for the registration activities performed by iTrusChina)

in accordance with [WebTrust Principles and Criteria for Certification Authorities – Extended Validation SSL – Version 1.6.8](#)



iTrusChina Representative

March 25, 2020

Appendix

The list of keys and certificates covered in the management assessment is as follow:

C A #	C e r t #	Subject	Issuer	Serial	Key Alg orit hm	Key Size	Digest Algori thm	Not Before	Not After	SKI	SHA256 Fingerprint
1	1	CN = vTrus Root CA O = iTrusChina Co.,Ltd. C = CN	CN = vTrus Root CA O = iTrusChina Co.,Ltd. C = CN	43 e3 71 13 d8 b3 59 14 5d b7 ce 8c fd 35 fd 6f bc 05 8d 45	rsaE ncry ptio n	(4096 bits)	sha256 WithRS AEncry ption	31 July 2018 15:24:0 5	31 July 2043 15:24:0 5	54 62 70 63 f1 75 84 43 58 8e d1 16 20 b1 c6 ac 1a bc f6 89	8A71DE6559336F426C26E53 880D00D88A18DA4C6A91F 0DCB6194E206C5C96387
2	2	CN = vTrus EV SSL CA O = iTrusChina Co.,Ltd. C = CN	CN = vTrus Root CA O = iTrusChina Co.,Ltd. C = CN	7d 74 6e a3 6e 21 36 27 0e 8f c2 e2 45 6d 22 9c b9 oc 80 b7	rsaE ncry ptio n	(2048 bits)	sha256 WithRS AEncry ption	31 July 2018 15:31:0 6	31 July 2038 15:31:0 6	fo 72 d9 34 39 35 48 a4 ba 5d 11 73 da df 07 e3 cb 11 84 00	F3AA6D712A15F63F8350804 979DB542419A61B2B1D22E7 56C417ABFE8D74A3CA
3	1	CN = vTrus ECC Root CA O = iTrusChina Co.,Ltd. C = CN	CN = vTrus ECC Root CA O = iTrusChina Co.,Ltd. C = CN	6e 6a bc 59 aa 53 be 98 39 67 a2 d2 6b a4 3b e6 6d 1c d6 da	ecds aEnc rypti on	ECC(384 bits)	sha384 WithEC DSAEn cryptio n	31 July 2018 15:26:4 4	31 July 2043 15:26:4 4	98 39 cd be d8 b2 8c f7 b2 ab e1 ad 24 af 7b 7c a1 db 1f cf	30FBBA2C32238E2A98547A F97931E550428B9B3F1C8EE B6633DCFA86C5B27DD3

C A #	C e r t #	Subject	Issuer	Serial	Key Algo rit hm	Key Size	Digest Algori thm	Not Before	Not After	SKI	SHA256 Fingerprint
4	2	CN = vTrus ECC EV SSL CA O = iTrusChina Co.,Ltd. C = CN	CN = vTrus ECC Root CA O = iTrusChina Co.,Ltd. C = CN	30 22 82 d6 6d f3 b3 7a 7f 5b f3 73 d4 ae 8e 7c 5c 12 53 76	ecds aEnc rypti on	ECC(256 bits)	sha256 WithEC DSAEn cryptio n	31 July 2018 15:39:2 0	31 July 2038 15:39:2 1	bf 16 c1 25 06 61 18 61 6b e1 30 19 08 3f 7e 54 27 03 b7 5b	BD30CoD1E7ACB83EFC4F5 F6C62F8F3A579BAB27527A FAE666C696C3A867175F1