

REPORT OF INDEPENDENT ACCOUNTANT

To the management of the Economic Authority for Electronic Certification of the People's Democratic Republic of Algeria ("Autorité Economique de Certification Electronique "AECE"):

Scope

We have been engaged, in a reasonable assurance engagement, to report on Autorité Economique de Certification Electronique (AECE)-Algeria management's [statement](#) that for its Certification Authority (CA) operations in Algiers, Algeria and Annaba, Algeria, throughout the period 15 March 2021 to 15 June 2021 for its Commercial Certification Authority ("COM-CA") as enumerated in [Attachment A](#), AECE has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in its Certificate Policies and Certification Practice Statements as enumerated in [Attachment B](#)
- Maintained effective controls to provide reasonable assurance that AECE provides its services in accordance with its Certificate Policies and Certification 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;
- 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 v2.2.1](#).

AECE does not escrow its CA keys, does not provide subscriber key generation, storage and recovery services, does not provide integrated circuit card management services, does not issue certificates to end-entities, does not provide third-party subordinate CA or cross certificate issuance or management and does not provide suspension services. Accordingly, our procedures did not extend to controls that would address those criteria.

Certification authority's responsibilities

AECE'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 Version 2.2.1

Our independence and quality control

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 Control 1, *Quality Control for Firms that perform Audits and Reviews of Financial Statements, and Other Assurance Engagements* 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 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 AECE's key and certificate lifecycle management business practices and its controls over key and certificate integrity, over the authenticity and confidentiality of subscriber and relying party information, over the continuity of key and certificate lifecycle management operations and over development, maintenance and operation of systems integrity;
- (2) selectively testing transactions executed in accordance with disclosed key and certificate lifecycle management business practices;
- (3) testing and evaluating the operating effectiveness of the controls; and
- (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 AECE 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 suitability of the design of the controls at individual subscriber and relying party locations.

Inherent limitations

Because of the nature and inherent limitations of controls, AECE'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.

Practitioner's opinion

In our opinion, throughout the period 15 March 2021 to 15 June 2021, AECE 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 Version 2.2.1

This report does not include any representation as to the quality of AECE's services beyond those covered by the WebTrust Principles and Criteria for Certification Authorities Version 2.2.1, nor the suitability of any of AECE's services for any customer's intended purpose.

Use of the WebTrust seal

AECE'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 or provide any additional assurance.

Deloitte LLP
Chartered Professional Accountants
Toronto, Ontario, Canada
29 July 2021



ATTACHMENT A

CA IDENTIFYING INFORMATION

CA #	Cert #	Subject	Issuer	Serial Number	Key Type	Hash Type	Not Before	Not After	Extended Key Usage	Subject Key Identifier	SHA256 Fingerprint
1	1	CN = Commercial CA O = AUTORITE ECONOMIQUE DE CERTIFICATIO N ELECTRONIQUE C = DZ	CN = National Root CA O = AUTORITE NATIONALE DE CERTIFICATION ELECTRONIQUE C = DZ	4d11a7daf0f07c dd487e133d350 1ca6b7442fccc	RSA 4096-bit	SHA 256	Wednesday, March 11, 2020 4:54:51 PM	Wednesday, March 11, 2037 4:54:51 PM		412c6db6c41462fc9dd00c0ace2572ab33b13e32	583db405f8e290d8db2d5af74e67f60b71e19f033befd488d5c221b06ddefdc0



ATTACHMENT B

AECE CERTIFICATE POLICY AND CERTIFICATION PRACTICE STATEMENT

CPS Name	Version	Date
AECE – Commercial Certification Authority – CP/CPS	1.3	25-Feb-2021
AECE – Commercial Certification Authority – CP/CPS	1.2	31-Jan-2021
AECE – Commercial Certification Authority – CP/CPS	0.7	20-Mar-2020

PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA



REGULATORY AUTHORITY FOR POST
AND ELECTRONIC COMMUNICATIONS

ECONOMIC AUTHORITY FOR ELECTONIC CERTIFICATION

AECE MANAGEMENT'S STATEMENT

The Authority for Economic Certification of the People's Democratic Republic of Algeria ("Autorité Economique de Certification Electronique" or "AECE") operates the Certification Authority (CA) services known as: Commercial CA ("COM-CA")

The management of AECE is responsible for establishing and maintaining effective controls over its CA operations, including its CA business practices disclosure, CA business practices management, CA environmental controls, CA key lifecycle management controls, certificate lifecycle management controls on its website, which is available at <https://pki.aece.dz/repository>. 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 AECE's Certification Authority operations.

AECE management has assessed its disclosures of its certificate practices and controls over its CA services. Based on that assessment, in AECE management's opinion, in providing its Certification Authority (CA) services in Algiers, Algeria and Annaba, Algeria as of throughout the period 15 March 2021 to 15 June 2021, AECE has:

- Disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in its Certificate Policies Certification Practice Statements as enumerated in its:
 - AECE – Commercial Certification Authority – CP/CPS, v1.3, 25 February 2021 ("CP/CPS")
- Maintained effective controls to provide reasonable assurance that:
 - AECE provides its services in accordance with its Certificate Policies and Certification 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;
- 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 v2.2.1](#), including the following:

CA Business Practices Disclosure

- Certification Practice Statement (CPS)
- Certificate Policy (CP)

CA Business Practices Management

- Certification Policy Management
- Certification Practice Statement Management
- CP and CPS Consistency

CA Environmental Controls

- Security Management
- Asset Classification and Management
- Personnel Security
- Physical and Environmental Security
- Operations Management
- System Access Management
- System Development, Maintenance, and Change Management
- Disaster Recovery, Backups, and Business Continuity Management
- Monitoring and Compliance
- Audit Logging

CA Key Lifecycle Management Controls

- CA Key Generation
- CA Key Storage, Backup, and Recovery
- CA Public Key Distribution
- CA Key Usage
- CA Key Archival
- CA Key Destruction
- CA Key Compromise
- CA Cryptographic Hardware Lifecycle Management
- CA Key Transportation
- CA Key Migration



Certificate Lifecycle Management Controls

- Subscriber Registration
- Certificate Rekey
- Certificate Issuance
- Certificate Distribution
- Certificate Revocation
- Certificate Validation

AECE does not escrow its CA keys, does not provide subscriber key generation, storage and recovery services, does not provide integrated circuit card management services, does not issue certificates to end-entities, does not provide third-party subordinate CA or cross certificate issuance or management and does not provide suspension services.

MR. ABDELOUHAB ABDELLATIF;

ARPC General Manager (Economic Authority of Electronic Certification General Manger)

29 JULY 2021



Handwritten signature in Arabic: "عبد الوهاب عبد اللطيف" (Abdelouhab Abdellatif) and "مدير عام" (General Manager). The signature is written in black ink over the stamp.