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INDEPENDENT ASSURANCE REPORT

To the management of Electronic Certification Accreditation Council
Certification Authority ("ECAC")

Scope

We have been engaged, in a reasonable assurance engagement, to report on ECAC Certification Authority management's assertion that for its Certification Authority (CA) operations at Islamabad and Lahore, Pakistan, throughout the period 2024-08-01 to 2025-02-28 for its CAs as enumerated in the **Annex**, ECAC has:

- 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 – Network Security v1.7.

ECAC does not escrow its CA private keys and any subscriber private keys, and does not provide certificate renewal and suspension services. Accordingly, our assertion does not extend to controls that would address those criteria.

Certification authority's responsibilities

ECAC's management is responsible for its assertion, including the fairness of its presentation, and the provision of its described services in accordance the WebTrust Principles and Criteria for Certification Authorities – Network Security v1.7.

Our independence and quality management

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 Management (ISQM) 1, Quality Management for Firms that Perform Audits or Reviews of Financial Statements, or Other Assurance or Related Services 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 assertion based on our procedures. We conducted our procedures in accordance with International Standard 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 assertion is fairly stated, and, accordingly, included:

(1) obtaining an understanding of ECAC's network and certificate system security to meet the requirements set forth by the CA/Browser Forum;

(2) testing and evaluating the operating effectiveness of the controls; and

(3) 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.

The Audit Team consisted of 6 people including Audit Quality Reviewers. The team qualifications included CPA, PhD, CISA, CISM, CISSP and was led by Péter Máté Erdősi PhD CISA. The average years of auditing experience – auditing trust services or similar information systems – are 13 years in the audit team.

All team members have knowledge of

(1) audit principles, practices and techniques,

(2) the issues related to various areas of public key infrastructure of CAs information security including risk assessment/management, network security and physical security;

(3) the applicable standards, publicly available specifications and regulatory requirements for CAs and other relevant publicly available specifications including standards for IT product evaluation; and

(4) the WebTrust Audit processes.

Additional qualification and personal experience of the Lead Auditor, the Lead Auditor

(1) has acted as auditor more than 40 complete trust service provider audits including 17 WebTrust audits since 2000,

(2) has adequate knowledge and attributes to manage the audit process, and

(3) has the competence to communicate effectively, both orally and in writing.

The relative effectiveness and significance of specific controls at ECAC 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

There are inherent limitations in the effectiveness of any system of internal control, including the possibility of human error and the circumvention of controls. For example, because of their nature, controls may not prevent, or detect unauthorised access to systems and information, or failure to comply with internal and external policies or requirements. Also, the projection to the future of any conclusions based on our findings is subject to the risk that controls may become ineffective.

Opinion

In our opinion, throughout the period 2024-08-01 to 2025-02-28, ECAC management's assertion, as referred to above, is fairly stated, in all material respects, in accordance with the WebTrust Principles and Criteria for Certification Authorities – Network Security v1.7.

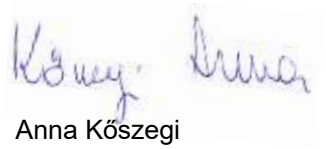
This report does not include any representation as to the quality of ECAC's services beyond those covered by the the WebTrust Principles and Criteria for Certification Authorities – Network Security v1.7, nor the suitability of any of ECAC's services for any customer's intended purpose.

Use of the WebTrust seal

ECAC's use of the WebTrust for Certification Authorities – 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.

Crowe FST Audit Ltd.
Budapest, Hungary

2025-03-19



Anna Kőszegi
Partner

Péter Máté Erdősi PhD CISA
Director

Annex

New PKI Hierarchy

Root CAs

ECAC Code Signing Root CA G1	
Subject	CN=ECAC Code Signing Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Code Signing Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	168B224C2D69A9110A99CEF71880D223
Key Algorithm	RSA
Key Size	4096
Digest Algorithm	SHA256
Not Before	2025-01-08 12:02:01 UTC+00:00
Not After	2040-01-08 12:02:01 UTC+00:00
SKI	12F82F5067FD5B2D989DA1C6AEE3CDB08CE965DD
SHA256 Fingerprint	2D91AC5C7D799A7F45EB926AA3EAE98014E00FC2EE10264FFE34FE5E56855C08

ECAC TLS Root CA G1	
Subject	CN=ECAC TLS Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC TLS Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	4DA71C129CAE6AD72318CD7E43FF218D
Key Algorithm	RSA
Key Size	4096
Digest Algorithm	SHA256
Not Before	2025-01-08 12:02:47 UTC+00:00
Not After	2040-01-08 12:02:47 UTC+00:00
SKI	A8ADEAB139265E8E2F5986FF77891BA2261826E1
SHA256 Fingerprint	1601DC334704BD853062D6DEBFEECAB38D496F515E186DA56175D9CA6F27256C

ECAC TSA Root CA G1	
Subject	CN=ECAC TSA Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC TSA Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	7DBFF79425972B16B873B58E61B0ED09
Key Algorithm	RSA
Key Size	4096
Digest Algorithm	SHA256

ECAC TSA Root CA G1	
Not Before	2025-01-08 12:03:38 UTC+00:00
Not After	2040-01-08 12:03:38 UTC+00:00
SKI	204549EF620BF4B335F3C3D2810772F57DD0B2B5
SHA256 Fingerprint	A51E11DA5843D04B1D666CD19DE3542075A1877062216CC956CEC519DAFE87A9

ECAC SMIME Root CA G1	
Subject	CN=ECAC SMIME Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC SMIME Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	704A05D98F89436489094AB5B6C497C7
Key Algorithm	RSA
Key Size	4096
Digest Algorithm	SHA256
Not Before	2025-01-08 11:49:40 UTC+00:00
Not After	2040-01-08 11:49:40 UTC+00:00
SKI	2E75E3FC52FFA5FAD553FA80D2EBC8DF3FC5C8A6
SHA256 Fingerprint	D4E2F21AB0DF3F0456E29A0F3405FA3798F2152E8CD09EDF3BC4ABC28C70951C

ECAC Client Authentication Root CA G1	
Subject	CN=ECAC Client Authentication Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Client Authentication Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	3B25EC00DD7E8BBAE7339BCAE8D9B37E
Key Algorithm	RSA
Key Size	4096
Digest Algorithm	SHA256
Not Before	2025-01-08 12:17:42 UTC+00:00
Not After	2040-01-08 12:17:42 UTC+00:00
SKI	9CB839F623977635A737BF3FB30DCB50C0A68009
SHA256 Fingerprint	9C9089E0D0C9B17149056A97EAA276E2CA7ED0DC515C65D45D2C6DCE98498220

Subordinate CAs

ECAC TSA CA G1	
Subject	CN=ECAC TSA CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC TSA Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	76C0F738722476653C83EDC9D903503C

ECAC TSA CA G1	
Key Algorithm	RSA
Key Size	4096
Digest Algorithm	SHA256
Not Before	2025-01-09 11:51:54 UTC+00:00
Not After	2031-01-09 11:51:54 UTC+00:00
SKI	557B13621C63482CB52EDAE4E5376C822BC36830
Key Usage	Certificate Sign, CRL Sign
Extended Key Usage	Time Stamping
SHA256 Fingerprint	8B83BC2EA517F95833578F1150EC4A6D08C16B91C851B4D7C936A4B4118BD837

ECAC OV TLS CA G1	
Subject	CN=ECAC OV TLS CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC TLS Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	788B6ECD9DE1FD5C144CD3306CC35CE4
Key Algorithm	RSA
Key Size	4096
Digest Algorithm	SHA256
Not Before	2025-01-09 11:42:31 UTC+00:00
Not After	2031-01-09 11:42:31 UTC+00:00
SKI	22051A9D7B31E41851FAE8AB683A8951FE9E0237
Key Usage	Certificate Sign, CRL Sign
Extended Key Usage	TLS Web Client Authentication, TLS Web Server Authentication
SHA256 Fingerprint	1C26939AD9A91D707FD040E5A3800E4D010F9E36886F50CDE69B8CF10BAD49DC

ECAC EV TLS CA G1	
Subject	CN=ECAC EV TLS CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC TLS Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	3EE6FD16786350240FCDD9264A5C2860
Key Algorithm	RSA
Key Size	4096
Digest Algorithm	SHA256

ECAC EV TLS CA G1	
Not Before	2025-01-09 11:49:35 UTC+00:00
Not After	2031-01-09 11:49:35 UTC+00:00
SKI	B1B5E9C96EBA670E3C074DD9A1305EFACCA1A23B
Key Usage	Certificate Sign, CRL Sign
Extended Key Usage	TLS Web Client Authentication, TLS Web Server Authentication
SHA256 Fingerprint	0DE235DA20A086CFADC331A299D550FB2FBD2DE5EF1E37EA663713DD695C80C0

ECAC Code Signing CA G1	
Subject	CN=ECAC Code Signing CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Code Signing Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	02BCB8A47224721E344F1A4442C346F8
Key Algorithm	RSA
Key Size	4096
Digest Algorithm	SHA256
Not Before	2025-01-09 11:47:58 UTC+00:00
Not After	2031-01-09 11:47:58 UTC+00:00
SKI	9E09A89FAC3E5CED166E655F2740DA81C008F914
Key Usage	Certificate Sign, CRL Sign
Extended Key Usage	Code Signing
SHA256 Fingerprint	0030073BA908DC7AFB7974045DC36EAFB628D3FD586EE6AE67B43B2D5791EDA1

ECAC EV Code Signing CA G1	
Subject	CN=ECAC EV Code Signing CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Code Signing Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	2559F010B5756CE2D4BB5B628A510FD1
Key Algorithm	RSA
Key Size	4096
Digest Algorithm	SHA256
Not Before	2025-01-09 11:50:01 UTC+00:00
Not After	2031-01-09 11:50:01 UTC+00:00
SKI	23F818510E1BA26A25B2FE8A0AD536F0B754AE2E
Key Usage	Certificate Sign, CRL Sign

ECAC EV Code Signing CA G1	
Extended Key Usage	Code Signing
SHA256 Fingerprint	0AD4CDD66EB6F0377A004CA6B71181064116B4076D9C0AD369C22F64F72F7EB9

ECAC SMIME CA G1	
Subject	CN=ECAC SMIME CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC SMIME Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	422284FB654D1EBA84F686CECA1337EC
Key Algorithm	RSA
Key Size	4096
Digest Algorithm	SHA256
Not Before	2025-01-09 11:48:39 UTC+00:00
Not After	2031-01-09 11:48:39 UTC+00:00
SKI	02EC35B351B8368B0492CFF2D84736C94B50BF98
Key Usage	Certificate Sign, CRL Sign
Extended Key Usage	E-mail Protection
SHA256 Fingerprint	109DF302264CFE8E944306D05272ED80F4B37BED57CD149EC8D1FC9403A3F9FF

ECAC Client Authentication CA G1	
Subject	CN=ECAC Client Authentication CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Client Authentication Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	17D48AF7A23A0943FAD59DC63F92E237
Key Algorithm	RSA
Key Size	4096
Digest Algorithm	SHA256
Not Before	2025-01-09 11:48:17 UTC+00:00
Not After	2031-01-09 11:48:17 UTC+00:00
SKI	CF9B98919CEF300CCB52793B419743E4D0C51B9B
Key Usage	Certificate Sign, CRL Sign
Extended Key Usage	TLS Web Client Authentication
SHA256 Fingerprint	E8C993FCFB2C2382BE411839D38EF48CB017965BD04CEDC20D42585367ABB1B4

Old PKI Hierarchy

Root CA	
Subject	CN=ECAC Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	75F3520C33E0E4D4F3F36799B7DB1CF15F20B265
Key Algorithm	RSA
Key Size	4096 bit
Digest Algorithm	SHA256
Not Before	2023-01-16 11:57:11 GMT
Not After	2048-01-16 11:57:11 GMT
SKI	3907EEE66F43BA389288B93173B690D671F7EDDE
SHA256 Fingerprint	4EC7B0E3257F710D2F2D90D3CF9E0C87ECF3D2CE59D724F9DDAE1C2485611324

Subordinate CAs

ECAC Commercial Client Authentication CA G1	
Subject	CN=ECAC Commercial Client Authentication CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	49333F5787900990DF0C4C1545B8515EF13AB224
Key Algorithm	RSA
Key Size	4096 bit
Digest Algorithm	SHA256
Not Before	2023-01-16 13:18:19 GMT
Not After	2040-01-16 13:18:19 GMT
SKI	A80C6E808FEFF71D83FBDF0C26592B24AEF67311
SHA256 Fingerprint	094C6668F247B148AAC26DEF75ECBB351A08BACA2156401B08FCF62D49EDAFC6

ECAC Commercial Code Signing CA G1	
Subject	CN=ECAC Commercial Code Signing CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	5AC2DA6E334A70FFDDEC6A24C857F95E9F939482
Key Algorithm	RSA
Key Size	4096 bit
Digest Algorithm	SHA256
Not Before	2023-01-16 13:29:34 GMT

ECAC Commercial Code Signing CA G1	
Not After	2040-01-16 13:29:34 GMT
SKI	F09FB73D45E4951CB950E2F2A3FB9348A7605E9B
SHA256 Fingerprint	304475CD3886E9F89FA4ACCDFA721FF3A46380164E06D6B30BC780848D677825

ECAC Commercial SMIME CA G1	
Subject	CN=ECAC Commercial SMIME CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	2A1FA8CC3E6BDEB25D4743425EEC04C5945B3726
Key Algorithm	RSA
Key Size	4096 bit
Digest Algorithm	SHA256
Not Before	2023-01-16 13:31:38 GMT
Not After	2040-01-16 13:31:38 GMT
SKI	A2C0795DD151AA2EA56B5F3E79D900241E38A469
SHA256 Fingerprint	153A825CDCFBF89157AE6DF13FC1045D405E7257C8979F35A612322B2232D6B1

ECAC Commercial Timestamping CA G1	
Subject	CN=ECAC Commercial Timestamping CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	59992794C79053A9E7FA788767A42E7B5B71B005
Key Algorithm	RSA
Key Size	4096 bit
Digest Algorithm	SHA256
Not Before	2023-01-16 13:27:07 GMT
Not After	2040-01-16 13:27:07 GMT
SKI	F36BCDFB5E5E2193A51903C8E3EAF396DA942304
SHA256 Fingerprint	8D2FEC8E06B5F85D00ACE69E3A45BB2B9F52C58B3922C34749660E71D374ED24

ECAC Commercial TLS CA G1	
Subject	CN=ECAC Commercial TLS CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Root CA G1,O=Electronic Certification Accreditation Council,C=PK

ECAC Commercial TLS CA G1	
Serial	2C54F22077FA7E28191234F38DE01799DA79346C
Key Algorithm	RSA
Key Size	4096 bit
Digest Algorithm	SHA256
Not Before	2023-01-16 13:24:23 GMT
Not After	2040-01-16 13:24:23 GMT
SKI	9E0A1D5E38A20DC7AC34C9E022082D5DB5CE21EE
SHA256 Fingerprint	8992E142128A9C22BCE74FC48F6BFB46FBBF5CC0604C7DC213323036AFAAC502

ECAC Government Client Authentication CA G1	
Subject	CN=ECAC Government Client Authentication CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	3FD0E0EA61B72BDD2599163127015ADD0E0C37B6
Key Algorithm	RSA
Key Size	4096 bit
Digest Algorithm	SHA256
Not Before	2023-01-16 13:13:52 GMT
Not After	2040-01-16 13:13:52 GMT
SKI	5E655DBCD819671660511E3BEFCDCA1895F90D57
SHA256 Fingerprint	33F5587821962FEE27D17A10FBD133C12A895374ECF565925F63633442DB71D2

ECAC Government Code Signing CA G1	
Subject	CN=ECAC Government Code Signing CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	3D7958777463C7486C818F88F370553CD5716998
Key Algorithm	RSA
Key Size	4096 bit
Digest Algorithm	SHA256
Not Before	2023-01-16 13:28:56 GMT
Not After	2040-01-16 13:28:56 GMT
SKI	F9DB1C60182DD16DAA25B919D8E3CE41BB4DCB1C

ECAC Government Code Signing CA G1	
SHA256 Fingerprint	29F0E39869B6DDBC269623EDCC453F764E026559A0B238A0BADC5F27743D1931

ECAC Government SMIME CA G1	
Subject	CN=ECAC Government SMIME CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	50716918A1FFB95858E090D039BE0A5C33A9E62E
Key Algorithm	RSA
Key Size	4096 bit
Digest Algorithm	SHA256
Not Before	2023-01-16 13:29:34 GMT
Not After	2040-01-16 13:29:34 GMT
SKI	07ED94DD1A3667CDC73D32B687C1F991128CC73D
SHA256 Fingerprint	2371A3686D2A1BAEC08E560755DB7BE9424408023DD5BB995C0211E0059818DE

ECAC Government Timestamping CA G1	
Subject	CN=ECAC Government Timestamping CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	30ACF22688DDB7ACB4290F27DF5A41EDFB2BC02F
Key Algorithm	RSA
Key Size	4096 bit
Digest Algorithm	SHA256
Not Before	2023-01-16 13:26:16 GMT
Not After	2040-01-16 13:26:16GMT
SKI	F4436E13DB3BA44CA25E4D45134EC878B11D5A12
SHA256 Fingerprint	1CBF424FFABEB601E8210B12A7BDB9C211DB96B798FE879945F57EE704D291A1

ECAC Government TLS CA G1	
Subject	CN=ECAC Government TLS CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	55763E2DCF7C02DD776C551D79DC8F1BE0047E8F

ECAC Government TLS CA G1	
Key Algorithm	RSA
Key Size	4096 bit
Digest Algorithm	SHA256
Not Before	2023-01-16 13:29:34 GMT
Not After	2040-01-16 13:29:34 GMT
SKI	FF52146C41472EA47326FDDFEF26444A42832B95
SHA256 Fingerprint	8B32E9E5F919BD7449099E439F149829ABB1830C88E079E8AD26D11BB0D0DAD0

ELECTRONIC CERTIFICATION ACCREDITATION COUNCIL
MINISTRY OF INFORMATION TECHNOLOGY &
TELECOMMUNICATION
NTC HQs Building, G-5/2, Islamabad

A GATEWAY TO DIGITAL PAKISTAN

19 March, 2025

Electronic Certification Accreditation Council
MANAGEMENT'S ASSERTION

Electronic Certification Accreditation Council Certification Authority ("ECAC") is operated by Electronic Certification Accreditation Council, Pakistan known as list of Root and Subordinate CAs in scope (see **Appendix A**), for Network Security Requirements and provides SSL and non-SSL CA services.

The management of ECAC is responsible for establishing and maintaining effective controls over its SSL and non-SSL CA operations, including its network and certificate security system 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 ECAC Certification Authority operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

ECAC management has assessed its controls over its CA services. Based on that assessment, in providing its SSL and non-SSL Certification Authority (CA) services at Islamabad and Lahore, Pakistan, throughout the period 2024-08-01 to 2025-02-28, ECAC has

- 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 – Network Security v1.7.

ECAC does not escrow its CA private keys and any subscriber private keys, and does not provide certificate renewal and suspension services. Accordingly, our assertion does not extend to controls that would address those criteria.

Abdul Wahid Khan

ECAC PMA Head

March 19, 2025

Appendix A

Root CAs

ECAC Code Signing Root CA G1	
Subject	CN=ECAC Code Signing Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Code Signing Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	168B224C2D69A9110A99CEF71880D223
SHA256 Fingerprint	2D91AC5C7D799A7F45EB926AA3EAE98014E00FC2EE10264FFE34FE5E56855C08

ECAC TLS Root CA G1	
Subject	CN=ECAC TLS Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC TLS Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	4DA71C129CAE6AD72318CD7E43FF218D
SHA256 Fingerprint	1601DC334704BD853062D6DEBFEECAB38D496F515E186DA56175D9CA6F27256C

ECAC TSA Root CA G1	
Subject	CN=ECAC TSA Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC TSA Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	7DBFF79425972B16B873B58E61B0ED09
SHA256 Fingerprint	A51E11DA5843D04B1D666CD19DE3542075A1877062216CC956CEC519DAFE87A9

ECAC SMIME Root CA G1	
Subject	CN=ECAC SMIME Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC SMIME Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	704A05D98F89436489094AB5B6C497C7
SHA256 Fingerprint	D4E2F21AB0DF3F0456E29A0F3405FA3798F2152E8CD09EDF3BC4ABC28C70951C

ECAC Client Authentication Root CA G1	
Subject	CN=ECAC Client Authentication Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Client Authentication Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	3B25EC00DD7E8BBAE7339BCAE8D9B37E
SHA256 Fingerprint	9C9089E0D0C9B17149056A97EAA276E2CA7ED0DC515C65D45D2C6DCE98498220

Subordinate CAs

ECAC TSA CA G1	
Subject	CN=ECAC TSA CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC TSA Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	76C0F738722476653C83EDC9D903503C
SHA256 Fingerprint	8B83BC2EA517F95833578F1150EC4A6D08C16B91C851B4D7C936A4B4118BD837

ECAC OV TLS CA G1	
Subject	CN=ECAC OV TLS CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC TLS Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	788B6ECD9DE1FD5C144CD3306CC35CE4
SHA256 Fingerprint	1C26939AD9A91D707FD040E5A3800E4D010F9E36886F50CDE69B8CF10BAD49DC

ECAC EV TLS CA G1	
Subject	CN=ECAC EV TLS CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC TLS Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	3EE6FD16786350240FCDD9264A5C2860
SHA256 Fingerprint	0DE235DA20A086CFADC331A299D550FB2FBD2DE5EF1E37EA663713DD695C80C0

ECAC Code Signing CA G1	
Subject	CN=ECAC Code Signing CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Code Signing Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	02BCB8A47224721E344F1A4442C346F8
SHA256 Fingerprint	0030073BA908DC7AFB7974045DC36EAFB628D3FD586EE6AE67B43B2D5791EDA1

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ECAC EV Code Signing CA G1	
Subject	CN=ECAC EV Code Signing CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Code Signing Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	2559F010B5756CE2D4BB5B628A510FD1
SHA256 Fingerprint	0AD4CDD66EB6F0377A004CA6B71181064116B4076D9C0AD369C22F64F72F7EB9

ECAC SMIME CA G1	
Subject	CN=ECAC SMIME CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC SMIME Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	422284FB654D1EBA84F686CECA1337EC
SHA256 Fingerprint	109DF302264CFE8E944306D05272ED80F4B37BED57CD149EC8D1FC9403A3F9FF

ECAC Client Authentication CA G1	
Subject	CN=ECAC Client Authentication CA G1,O=Electronic Certification Accreditation Council,C=PK
Issuer	CN=ECAC Client Authentication Root CA G1,O=Electronic Certification Accreditation Council,C=PK
Serial	17D48AF7A23A0943FAD59DC63F92E237
SHA256 Fingerprint	E8C993FCFB2C2382BE411839D38EF48CB017965BD04CEDC20D42585367ABB1B4