

Independent practitioner's assurance report

To Management of Hongkong Post Certification Authority:

Scope

We have been engaged to perform a reasonable assurance engagement on accompanying management's assertion of Hongkong Post Certification Authority ("HKPCA") with Certizen Limited ("Certizen") as its agent in providing its Certification Authority ("CA") operations in the Hong Kong Special Administrative Region of the People's Republic of China for the period from 1 January 2023 to 31 December 2023 for its CAs as enumerated in [Appendix C](#), HKPCA with Certizen as its agent has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in its Certification Practice Statements ("CPS") referenced in [Appendix D](#), and maintained effective controls to provide reasonable assurance on providing its services in accordance with its CPS; and
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and certificates it manages was established and protected throughout their lifecycles;
 - the integrity of subscriber keys and certificates it manages was established and protected throughout their lifecycles;
 - subscriber information is properly authenticated (for the registration activities performed by HKPCA with Certizen as its agent);
 - subordinate CA certificate requests are accurate, authenticated, and approved;
 - 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 system development, maintenance, and operations are properly authorised and performed to maintain CA system integrity,

in accordance with [WebTrust Principles and Criteria for Certification Authorities v2.2.2](#).

HKPCA does not escrow its CA keys. Accordingly, our procedures did not extend to controls that would address those criteria.

Management's Responsibilities

HKPCA with Certizen as its agent is responsible for the management's 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 v2.2.2](#).

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 Hong Kong Institute of Certified Public Accountants

(the “HKICPA”), which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

Our firm applies Hong Kong Standard on Quality Management 1 issued by the HKICPA, which requires the firm to design, implement and operate a system of quality management including policies or 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 management’s assertion based on our work performed.

We conducted our work in accordance with Hong Kong Standard on Assurance Engagements 3000 (Revised) “Assurance Engagements Other Than Audits or Reviews of Historical Financial Information” issued by the HKICPA¹. 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 HKPCA is fairly stated, in all material respects, in accordance with the [WebTrust Principles and Criteria for Certification Authorities v2.2.2](#). 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:

- obtaining an understanding of HKPCA’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;
- selectively testing transactions executed in accordance with disclosed key and certificate lifecycle management business practices;
- testing and evaluating the operating effectiveness of the controls; and
- performing such other procedures as we considered necessary in the circumstances.

The relative effectiveness and significance of specific controls at HKPCA 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 have performed no procedures to evaluate 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.

¹ The Hong Kong Standard on Assurance Engagement 3000 (Revised), Assurance Engagements other than Audits or Reviews of Historical Financial Information is based on the International Standard on Assurance Engagements (ISAE) 3000 (Revised), Assurance Engagements other than Audits or Reviews of Historical Financial Information of the International Auditing and Assurance Standards Board (IAASB), published by the International Federation of Accountants (IFAC) in April 2020.

Inherent Limitation

Because of the nature and inherent limitations of controls, HKPCA'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 opinion based on our findings to future periods is subject to the risk that changes may alter the validity of such opinion.

Opinion

In our opinion, the management's assertion of HKPCA, for the period from 1 January 2023 to 31 December 2023, is fairly stated, in all material respects, in accordance with the [WebTrust Principles and Criteria for Certification Authorities v2.2.2](#).

This report does not include any representation as to the quality of HKPCA's services beyond those covered by the [WebTrust Principles and Criteria for Certification Authorities v2.2.2](#), nor the suitability of any of HKPCA's services for any customer's intended purpose.

Other Matter

HKPCA's management has disclosed two incidents (see [Appendix B](#)) during the period from 1 January 2023 to 31 December 2023. The remedial actions and the root causes of these incidents undertaken by HKPCA have been posted publicly in the online forums of the Bugzilla site, as well as the online forums of individual internet browsers that comprise the CA/Browser Forum.

Purpose and Restriction on Use

The management's assertion was prepared for obtaining and displaying the WebTrust Seal on HKPCA website² using the [WebTrust Principles and Criteria for Certification Authorities v2.2.2](#) designed for this purpose. As a result, the management's assertion of HKPCA may not be suitable for another purpose. This report is intended solely for management of HKPCA 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 v2.2.2](#).

Our report is not to be used for any other purpose. We do not assume responsibility towards or accept liability to any other parties for the contents of this report.

Use of the WebTrust seal

² The maintenance and integrity of the HKPCA website is the responsibility of the Management of HKPCA; 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 management's assertion of HKPCA on which the assurance report was issued or the assurance report that was issued and the information presented on the website.



羅兵咸永道

HKPCA'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.

A handwritten signature in black ink that reads 'PricewaterhouseCoopers' in a cursive script.

PricewaterhouseCoopers
Certified Public Accountants

Hong Kong, 22 February 2024



羅兵咸永道

Appendix A – Auditor’s information

Auditor Name	Address
PricewaterhouseCoopers	22/F Prince's Building, Central, Hong Kong



Appendix B – Publicly disclosed incidents

Bugzilla ID	Disclosure	Publicly Disclosed Link
1804843	Hongkong Post: Subject CN converted to Unicode representation incident	Bugzilla Ticket Link
1836694	Hongkong Post: Invalid EV cert businessCategory	Bugzilla Ticket Link

Appendix C – In Scope CA

Full Name of CA:
Hongkong Post Certification Authority

List of HKPCA's Root CA:

Reference	Root CA Name	Remarks
1	Hongkong Post Root CA 1	Valid from 15 May 2003 and expired on 15 May 2023
<u>Subject DN</u> C=HK, O=Hongkong Post, CN=Hongkong Post Root CA 1 <u>SHA-1 Thumbprint</u> D6DAA8208D09D2154D24B52FCB346EB258B28A58 <u>SHA-256 Thumbprint</u> F9E67D336C51002AC054C632022D66DDA2E7E3FFF10AD061ED31D8BBB410CFB2		
2	Hongkong Post Root CA 2	Valid from 5 September 2015
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 2 <u>SHA-1 Thumbprint</u> DE010808E41EC41930D44095F8FE596B582C8CA2 <u>SHA-256 Thumbprint</u> 3945E08A8D4A0554B7605A7B355B10188E3EF842C76A805C54E3657C4D041AAA		
3	Hongkong Post Root CA 3	Valid from 3 June 2017
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3 <u>SHA-1 Thumbprint</u> 58A2D0EC2052815BC1F3F86402244EC28E024B02 <u>SHA-256 Thumbprint</u> 5A2FC03F0C83B090BBFA40604B0988446C7636183DF9846E17101A447FB8EFD6		

List of HKPCA's Subordinate CA:

Reference	Subordinate CA Name	Remarks
1	Hongkong Post e-Cert CA 1 - 10	Revoked on 9 January 2010
<u>Subject DN</u> C=HK, O=Hongkong Post, CN=Hongkong Post e-Cert CA 1 - 10 <u>SHA-1 Thumbprint</u> 8E7DC57B719EF6EDAFE371DC932E3BD7DA86C27A <u>SHA-256 Thumbprint</u> 44E24932FB1CD30DD94B20C2F0F3B7B9EB33B5C3BFC9344BC47A5167BFBD2A13		
2	Hongkong Post e-Cert CA 1 - 10	Issuance of SSL subscriber certificate was terminated from 1 January 2016 and expired on 15 May 2023
<u>Subject DN</u> C=HK, O=Hongkong Post, CN=Hongkong Post e-Cert CA 1 - 10 <u>SHA-1 Thumbprint</u> 3C8C897A8067713565626201E9EB20262E1D58CB <u>SHA-256 Thumbprint</u> 5274CC53BC061F9F984430F401A9D3BA35A20CEEBC88E6DFA71B269A7C640D2		
3	Hongkong Post e-Cert CA 1 - 14	Issuance of SSL subscriber certificate was terminated from 1 September 2016 and expired on 15 May 2023
<u>Subject DN</u> C=HK, O=Hongkong Post, CN=Hongkong Post e-Cert CA 1 - 14 <u>SHA-1 Thumbprint</u> 7DE6BE6FD505A861C3C81C7F1D467315C664A928 <u>SHA-256 Thumbprint</u> 14422A1BD5A91EDBA7397B8698922369B6AF6984FF87ACF6139DAA919E795A14		
4	Hongkong Post e-Cert CA 1 - 15	Issuance of SSL subscriber certificate was terminated from 1 July 2019 and expired on 15 May 2023
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post e-Cert CA 1 - 15 <u>SHA-1 Thumbprint</u> A19DF5F1BFB89686AF985667C4F80E8A09DDFD36 <u>SHA-256 Thumbprint</u> 5CB9E9DE32B187E40BA14FDF200FDA62C7B4FBF88D64F77CE02DD6EBE6BCC1B0		

Reference	Subordinate CA Name	Remarks
5	Hongkong Post e-Cert CA 2 - 15	Valid from 5 September 2015
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post e-Cert CA 2 - 15 <u>SHA-1 Thumbprint</u> 893FF8AFFC3738A49816EE0D134C9929E55BF747 <u>SHA-256 Thumbprint</u> 3271139D13EFEF47B348CD2436CE43A02E9B77E1D99318A3B9C751FC937F6230		
6	Hongkong Post e-Cert CA 2 - 17	Valid from 12 August 2017
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post e-Cert CA 2 - 17 <u>SHA-1 Thumbprint</u> 8745EFD9E96260F27014CCE8C8B98E7882A89B50 <u>SHA-256 Thumbprint</u> CBB56EAEFD6FECDE2408F2F9CE8C324CDDDBD3D967A5D76A9A22E81FF89B516AF		
7	Hongkong Post e-Cert CA 2 - 19	Valid from 29 July 2019
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post e-Cert CA 2 - 19 <u>SHA-1 Thumbprint</u> FA3E35B01455216190505b21f14D7A97CAAEE413 <u>SHA-256 Thumbprint</u> 5BFF0E9BCE3B75D36EA46E0746174C034885606CBE46228ED0AE9E5782583FB2		
8	Hongkong Post e-Cert SSL CA 3 - 17	Valid from 3 June 2017 for issuance of non-EV SSL certificate
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post e-Cert SSL CA 3 - 17 <u>SHA-1 Thumbprint</u> 92797871DC6A0B6EE1417BB657D7ED6FC6F975EB <u>SHA-256 Thumbprint</u> 69ECDBC3147F581DFDCB522D9DEFB260B26784AD4955C74E6A52522CCC4C4408		

9	Hongkong Post e-Cert EV SSL CA 3 - 17	Valid from 3 June 2017 for issuance of EV SSL certificate
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post e-Cert EV SSL CA 3 - 17 <u>SHA-1 Thumbprint</u> 6CA9BB1B3BAEF67D6D5414132A7EFB212836639E <u>SHA-256 Thumbprint</u> C18D53BF9864DD09BCBCACFD672E2566D4C81F6889E36DF5DD425C04211D0763		
10	Hongkong Post Root CA 3	Cross certificate signed by Hongkong Post Root CA 1 and revoked on 12 August 2017
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3 <u>SHA-1 Thumbprint</u> D0D535192598FCA8B68789EDCEF1EA51B3A898A5 <u>SHA-256 Thumbprint</u> ABFA404ECEEAA854381ABE294AC829440E0133E077911A67E1293CF111AC43C44		
11	Hongkong Post Root CA 3	Cross certificate signed by Hongkong Post Root CA 1 and valid from 12 August 2017 and expired on 15 May 2023
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3 <u>SHA-1 Thumbprint</u> 97FC47E174E2AA5332321DCFF6077A19F04387F0 <u>SHA-256 Thumbprint</u> 176AEBF2972BD6F47179EDE3DE63848B1543B45AE2954BEA45185B152537B9C4		
12	Hongkong Post Root CA 3	Cross certificate signed by Hongkong Post Root CA 1 and revoked on 27 July 2022
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3 <u>SHA-1 Thumbprint</u> 881700C3346CBA89A8C1C5C44A584A8441319944 <u>SHA-256 Thumbprint</u> F8F6037491861C069D3BB442B78A3DB4049EE7787B7C2841A7BA6966B5272F2C		

13	Hongkong Post Root CA 3	Cross certificate signed by Hongkong Post Root CA 1 and valid from 27 July 2022 and expired on 15 May 2023
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3 <u>SHA-1 Thumbprint</u> 3069BCFC8DD0AFBAABA5CA81D23CCC6413131F6F <u>SHA-256 Thumbprint</u> 5544A24FEB21F681F1987D30E0AF5C49E9F9FFFD5550A889B40B1EC9CC81E667		
14	Hongkong Post Root CA 3	Cross-certificate issued by GlobalSign root CA “GlobalSign Root CA - R3” and valid from 16 November 2022 to establish a trust relationship from Hongkong Post Root CA 3 to GlobalSign Root CA - R3
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3 <u>SHA-1 Thumbprint</u> AF0F1F7AFBD02E3DDE39BD0B646CF97B7D122408 <u>SHA-256 Thumbprint</u> 00482341B104A0DE6E0F1D508DB84CB514F7494FE04982133A5C750136C55DC8		

Appendix D - List of HKPCA's Certification Practice Statements

Document Names	Version
CPS for e-Cert (Personal), e-Cert (Organisational) and e-Cert (Encipherment)	OID = 1.3.6.1.4.1.16030.1.1.48 (valid from 1 July 2023) OID = 1.3.6.1.4.1.16030.1.1.49 (valid from 21 December 2023) ^
CPS for e-Cert (Server)	OID = 1.3.6.1.4.1.16030.1.7.16 (valid from 8 June 2023) OID = 1.3.6.1.4.1.16030.1.7.17 (valid from 1 July 2023) OID = 1.3.6.1.4.1.16030.1.7.18 (valid from 15 September 2023) OID = 1.3.6.1.4.1.16030.1.7.19 (valid from 21 December 2023) ^
CPS for e-Cert (Organisational Role)	OID = 1.3.6.1.4.1.16030.1.3.13 (valid from 1 July 2023) OID = 1.3.6.1.4.1.16030.1.3.14 (valid from 2 November 2023) OID = 1.3.6.1.4.1.16030.1.3.15 (valid from 21 December 2023) ^
CPS for Bank-Cert (Personal), Bank-Cert (Corporate) and Bank-Cert (Bank)	OID = 1.3.6.1.4.1.16030.1.2.17 (valid from 1 December 2022) ^
CPS for g-Cert (Individual) g-Cert (Functional Unit)	OID = 1.3.6.1.4.1.16030.1.8.7 (valid from 19 January 2023) OID = 1.3.6.1.4.1.16030.1.8.8 (valid from 30 March 2023) OID = 1.3.6.1.4.1.16030.1.8.9 (valid from 1 July 2023) OID = 1.3.6.1.4.1.16030.1.8.10 (valid from 21 December 2023) ^
CPS for iAM Smart-Cert	OID = 1.3.6.1.4.1.16030.1.9.2 (valid from 1 November 2022) ^

^ Latest CPS version

PricewaterhouseCoopers
22/F Prince's Building
Central
Hong Kong

22 February 2024

Dear Sirs,

**Assertion by Management as to the Disclosure of Business Practices and Controls
over the Hongkong Post Certification Authority Operations during the period from
1 January 2023 through 31 December 2023**

The Postmaster General operates as a Certification Authority (“CA”) known as Hongkong Post Certification Authority (“HKPCA”) through its Root CAs and Subordinate CAs referenced in Appendix A to provides the following certification authority services:

- Subscriber key management services
- Subscriber registration
- Certificate issuance
- Certificate renewal
- Certificate distribution
- Certificate revocation, and
- Certificate status information processing

The Government of the Hong Kong Special Administrative Region of the People's Republic of China has appointed Certizen Limited ("Certizen") as an agent of HKPCA on 24 June 2019 and 28 September 2022 for operating and maintaining the systems and services of HKPCA from 1 January 2020 to 30 June 2022, and an extended period up to 30 June 2023 (date inclusive), and from 1 July 2023 to 30 June 2026 respectively. As such, HKPCA with Certizen as the agent is responsible for the management assertions of HKPCA's operations.

HKPCA with Certizen as its agent is responsible for establishing and maintaining effective controls over its CA operations, including its CA business practice disclosure, CA business practice management, CA environmental controls, CA key lifecycle management controls, subscriber key lifecycle management controls and 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 HKPCA's Certification Authority operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

HKPCA with Certizen as its agent has assessed its disclosures of its certificate practices and controls over its CA operations. Based on that assessment, in management's opinion, HKPCA with Certizen as its agent, in providing its CA services in the Hong Kong Special Administrative Region of the People's Republic of China, throughout the period from 1 January 2023 to 31 December 2023, HKPCA with Certizen as its agent has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in its Certification Practice Statements ("CPS") referenced in Appendix B, and maintained effective controls to provide reasonable assurance on providing its services in accordance with its CPS; and
- 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 the registration activities performed by HKPCA with Certizen as its agent);
 - subordinate CA certificate requests are accurate, authenticated, and approved;
 - 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.

in accordance with the [WebTrust Principles and Criteria for Certification Authorities v2.2.2](#), including the following:

CA Business Practices Disclosure

- Certification Practice Statement ("CPS")

CA Business Practices Management

- Certification Practice Statement Management

CA Environmental Controls

- Security Management
- Asset Classification and Management
- Personnel Security

- Physical & 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

Subscriber Key Lifecycle Management Controls

- CA-Provided Subscriber Key Generation Services
- Requirements for Subscriber Key Management

Certificate Lifecycle Management Controls

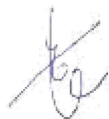
- Subscriber Registration
- Certificate Renewal
- Certificate Issuance
- Certificate Distribution
- Certificate Suspension and Revocation
- Certificate Validation

HKPCA does not escrow its CA keys. Accordingly, our assertion does not extend to controls that would address those criteria.

Yours faithfully,



(Charles MAK)
for Postmaster General



(Eva Chan)
for Certizen Limited

Appendix A

Full Name of CA:

Hongkong Post Certification Authority

List of HKPCA's Root CA:

Reference	Root CA Name	Remarks
1	Hongkong Post Root CA 1	Valid from 15 May 2003 and expired on 15 May 2023
<u>Subject DN</u> C=HK, O=Hongkong Post, CN=Hongkong Post Root CA 1 <u>SHA-1 Thumbprint</u> D6DAA8208D09D2154D24B52FCB346EB258B28A58 <u>SHA-256 Thumbprint</u> F9E67D336C51002AC054C632022D66DDA2E7E3FFF10AD061ED31D8BBB410C FB2		
2	Hongkong Post Root CA 2	Valid from 5 September 2015
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 2 <u>SHA-1 Thumbprint</u> DE010808E41EC41930D44095F8FE596B582C8CA2 <u>SHA-256 Thumbprint</u> 3945E08A8D4A0554B7605A7B355B10188E3EF842C76A805C54E3657C4D041AA A		
3	Hongkong Post Root CA 3	Valid from 3 June 2017
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3 <u>SHA-1 Thumbprint</u> 58A2D0EC2052815BC1F3F86402244EC28E024B02 <u>SHA-256 Thumbprint</u> 5A2FC03F0C83B090BBFA40604B0988446C7636183DF9846E17101A447FB8EFD6		

List of HKPCA's Subordinate CA:

Reference	Subordinate CA Name	Remarks
1	Hongkong Post e-Cert CA 1 - 10	Revoked on 9 January 2010
<u>Subject DN</u> C=HK, O=Hongkong Post, CN=Hongkong Post e-Cert CA 1 - 10 <u>SHA-1 Thumbprint</u> 8E7DC57B719EF6EDAFE371DC932E3BD7DA86C27A <u>SHA-256 Thumbprint</u> 44E24932FB1CD30DD94B20C2F0F3B7B9EB33B5C3BFC9344BC47A5167BFBD2A13		
2	Hongkong Post e-Cert CA 1 - 10	Issuance of SSL subscriber certificate was terminated from 1 January 2016 and expired on 15 May 2023
<u>Subject DN</u> C=HK, O=Hongkong Post, CN=Hongkong Post e-Cert CA 1 - 10 <u>SHA-1 Thumbprint</u> 3C8C897A8067713565626201E9EB20262E1D58CB <u>SHA-256 Thumbprint</u> 5274CC53BC061F9F984430F401A9D3BA35A20CEEBC88E6DFA71B269A7C640D2		
3	Hongkong Post e-Cert CA 1 - 14	Issuance of SSL subscriber certificate was terminated from 1 September 2016 and expired on 15 May 2023
<u>Subject DN</u> C=HK, O=Hongkong Post, CN=Hongkong Post e-Cert CA 1 - 14 <u>SHA-1 Thumbprint</u> 7DE6BE6FD505A861C3C81C7F1D467315C664A928 <u>SHA-256 Thumbprint</u> 14422A1BD5A91EDBA7397B8698922369B6AF6984FF87ACF6139DAA919E795A14		
4	Hongkong Post e-Cert CA 1 - 15	Issuance of SSL subscriber certificate was terminated from 1 July 2019 and expired on 15 May 2023

Reference	Subordinate CA Name	Remarks
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post e-Cert CA 1 - 15 <u>SHA-1 Thumbprint</u> A19DF5F1BFB89686AF985667C4F80E8A09DDFD36 <u>SHA-256 Thumbprint</u> 5CB9E9DE32B187E40BA14FDF200FDA62C7B4FBF88D64F77CE02DD6EBE6BC C1B0		
5	Hongkong Post e-Cert CA 2 - 15	Valid from 5 September 2015
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post e-Cert CA 2 - 15 <u>SHA-1 Thumbprint</u> 893FF8AFFC3738A49816EE0D134C9929E55BF747 <u>SHA-256 Thumbprint</u> 3271139D13EFEF47B348CD2436CE43A02E9B77E1D99318A3B9C751FC937F623 0		
6	Hongkong Post e-Cert CA 2 - 17	Valid from 12 August 2017
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post e-Cert CA 2 - 17 <u>SHA-1 Thumbprint</u> 8745EFD9E96260F27014CCE8C8B98E7882A89B50 <u>SHA-256 Thumbprint</u> CBB56EAEFD6FECDE2408F2F9CE8C324CDDBD3D967A5D76A9A22E81FF89B5 16AF		
7	Hongkong Post e-Cert CA 2 - 19	Valid from 29 July 2019
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post e-Cert CA 2 - 19 <u>SHA-1 Thumbprint</u> FA3E35B01455216190505b21f14D7A97CAAE413 <u>SHA-256 Thumbprint</u> 5BFF0E9BCE3B75D36EA46E0746174C034885606CBE46228ED0AE9E5782583FB 2		
8	Hongkong Post e-Cert SSL CA 3 - 17	Valid from 3 June 2017 for issuance of non-EV SSL certificate
<u>Subject DN</u>		

Reference	Subordinate CA Name	Remarks
<p>C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post e-Cert SSL CA 3 - 17</p> <p><u>SHA-1 Thumbprint</u> 92797871DC6A0B6EE1417BB657D7ED6FC6F975EB</p> <p><u>SHA-256 Thumbprint</u> 69ECDBC3147F581DFDCB522D9DEFB260B26784AD4955C74E6A52522CCC4C4408</p>		
9	Hongkong Post e-Cert EV SSL CA 3 - 17	Valid from 3 June 2017 for issuance of EV SSL certificate
<p><u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post e-Cert EV SSL CA 3 - 17</p> <p><u>SHA-1 Thumbprint</u> 6CA9BB1B3BAEF67D6D5414132A7EFB212836639E</p> <p><u>SHA-256 Thumbprint</u> C18D53BF9864DD09BCBCACFD672E2566D4C81F6889E36DF5DD425C04211D0763</p>		
10	Hongkong Post Root CA 3	Cross certificate signed by Hongkong Post Root CA 1 and revoked on 12 August 2017
<p><u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3</p> <p><u>SHA-1 Thumbprint</u> D0D535192598FCA8B68789EDCEF1EA51B3A898A5</p> <p><u>SHA-256 Thumbprint</u> ABFA404ECEEA854381ABE294AC829440E0133E077911A67E1293CF111AC43C44</p>		
11	Hongkong Post Root CA 3	Cross certificate signed by Hongkong Post Root CA 1 and valid from 12 August 2017 and expired on 15 May 2023
<p><u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3</p> <p><u>SHA-1 Thumbprint</u> 97FC47E174E2AA5332321DCFF6077A19F04387F0</p> <p><u>SHA-256 Thumbprint</u> 176AEBF2972BD6F47179EDE3DE63848B1543B45AE2954BEA45185B152537B9C4</p>		

Reference	Subordinate CA Name	Remarks
12	Hongkong Post Root CA 3	Cross certificate signed by Hongkong Post Root CA 1 and revoked on 27 July 2022
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3 <u>SHA-1 Thumbprint</u> 881700C3346CBA89A8C1C5C44A584A8441319944 <u>SHA-256 Thumbprint</u> F8F6037491861C069D3BB442B78A3DB4049EE7787B7C2841A7BA6966B5272F2C		
13	Hongkong Post Root CA 3	Cross certificate signed by Hongkong Post Root CA 1 and valid from 27 July 2022 and expired on 15 May 2023
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3 <u>SHA-1 Thumbprint</u> 3069BCFC8DD0AFBAABA5CA81D23CCC6413131F6F <u>SHA-256 Thumbprint</u> 5544A24FEB21F681F1987D30E0AF5C49E9F9FFFD5550A889B40B1EC9CC81E667		
14	Hongkong Post Root CA 3	Cross-certificate issued by GlobalSign root CA “GlobalSign Root CA - R3” and valid from 16 November 2022 to establish a trust relationship from Hongkong Post Root CA 3 to GlobalSign Root CA - R3
<u>Subject DN</u> C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3 <u>SHA-1 Thumbprint</u> AF0F1F7AFBD02E3DDE39BD0B646CF97B7D122408 <u>SHA-256 Thumbprint</u> 00482341B104A0DE6E0F1D508DB84CB514F7494FE04982133A5C750136C55DC8		

Appendix B

List of HKPCA's Certification Practice Statements:

Document Names	Version
CPS for e-Cert (Personal), e-Cert (Organisational) and e-Cert (Encipherment)	OID = 1.3.6.1.4.1.16030.1.1.48 (valid from 1 July 2023) OID = 1.3.6.1.4.1.16030.1.1.49 (valid from 21 December 2023) ^
CPS for e-Cert (Server)	OID = 1.3.6.1.4.1.16030.1.7.16 (valid from 8 June 2023) OID = 1.3.6.1.4.1.16030.1.7.17 (valid from 1 July 2023) OID = 1.3.6.1.4.1.16030.1.7.18 (valid from 15 September 2023) OID = 1.3.6.1.4.1.16030.1.7.19 (valid from 21 December 2023) ^
CPS for e-Cert (Organisational Role)	OID = 1.3.6.1.4.1.16030.1.3.13 (valid from 1 July 2023) OID = 1.3.6.1.4.1.16030.1.3.14 (valid from 2 November 2023) OID = 1.3.6.1.4.1.16030.1.3.15 (valid from 21 December 2023) ^
CPS for Bank-Cert (Personal), Bank-Cert (Corporate) and Bank-Cert (Bank)	OID = 1.3.6.1.4.1.16030.1.2.17 (valid from 1 December 2022) ^
CPS for g-Cert (Individual) g-Cert (Functional Unit)	OID = 1.3.6.1.4.1.16030.1.8.7 (valid from 19 January 2023) OID = 1.3.6.1.4.1.16030.1.8.8 (valid from 30 March 2023) OID = 1.3.6.1.4.1.16030.1.8.9 (valid from 1 July 2023) OID = 1.3.6.1.4.1.16030.1.8.10 (valid from 21 December 2023) ^
CPS for iAM Smart-Cert	OID = 1.3.6.1.4.1.16030.1.9.2 (valid from 1 November 2022) ^

^ Latest CPS version