



Independent practitioner's assurance report

To the Management of Hongkong Post Certification Authority:

Scope

We have been engaged to perform a reasonable assurance engagement on the 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 2024 to 31 December 2024 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,
- maintained effective controls to provide reasonable assurance that:
 - HKPCA provides its services in accordance with its CPS,
- 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); 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 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 the WebTrust Principles and Criteria for Certification Authorities v2.2.2.

HKPCA makes use of external registration authorities for specific subscriber registration activities as disclosed in HKPCA's business practices. Our procedures did not extend to the controls exercised by these external registration authorities.

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





Management's Responsibilities

The management of 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 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 Management 1, 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 procedures in accordance with International Standard on Assurance Engagements 3000 (Revised) "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 work to form the opinion.

A reasonable assurance engagement involves performing procedures to obtain sufficient appropriate evidence whether the management's assertion of HKPCA (with Certizen as its agent) is fairly stated, in all material respects, in accordance with the <u>WebTrust Principles and Criteria for Certification Authorities v2.2.2</u>. 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.

羅兵咸永道



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 subscriber and relying party locations. We have performed no procedures to evaluate the effectiveness of controls at individual subscriber 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

Because of the nature and inherent limitations of controls, HKPCA (with Certizen as its agent)'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 with Certizen as its agent, for the period from 1 January 2024 to 31 December 2024, is fairly stated, in all material respects, in accordance with the WebTrust Principles and Criteria for Certification Authorities v2.2.2.

Emphasis of Matter

This report does not include any representation as to the quality of HKPCA (with Certizen as its agent)'s services beyond those covered by the <u>WebTrust Principles and Criteria for Certification Authorities v2.2.2</u>, nor the suitability of any of HKPCA (with Certizen as its agent)'s services for any customer's intended purpose.

Our opinion is not modified in respect of this matter.

Other Matters

We noted the following other matters during our procedures:

The certificate for the Hongkong Post Root CA 1 (Appendix C Root CA #1) CA expired on 15 May 2023 and was not renewed.

HKPCA's management has disclosed five incidents (see <u>Appendix B</u>) during the period from 1 January 2024 to 31 December 2024. 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.

Our opinion is not modified in respect of these matters.



Purpose and Restriction on Use

The management's assertion was prepared for obtaining and displaying the WebTrust Seal on HKPCA website¹ 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 (with Certizen as its agent) 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

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.

PricewaterhouseCoopers

Acceptationse Cogers.

Certified Public Accountants

Hong Kong, 24 February 2025

_

¹ 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.





Appendix A – Auditor's information

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





Appendix B - Publicly disclosed incidents during the period from 1 January 2024 to 31 December 2024 $\,$

Bugzilla	Disclosure	Publicly Disclosed Link
ID		
1887888	Hongkong Post: Delayed revocation of TLS	Bugzilla Ticket Link
	certificates with basicConstraints not marked as	
	critical	
1887008	Hongkong Post: TLS certificates with	Bugzilla Ticket Link
	basicConstraints not marked as critical	
1886722	Hongkong Post: Delayed response to CPR	Bugzilla Ticket Link
1886665	Hongkong Post: Delayed revocation of TLS	Bugzilla Ticket Link
	certificates with Certificate Policies extension	
	problem	
1886406	Hongkong Post: TLS certificates with Certificate	Bugzilla Ticket Link
	Policies extension that does not assert http scheme	





Appendix C – In Scope CA

Full Name of CA:

Hongkong Post Certification Authority

List of HKPCA's Root CA:

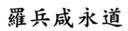
Reference	Root CA Name	Remarks	
1	Hongkong Post Root CA l	Valid from 15 May 2003 and	
		expired on 15 May 2023	
Subject DN			
	g Post, CN=Hongkong Post Root CA 1		
SHA-1 Thumbprint			
	154D24B52FCB346EB258B28A58		
SHA-256 Thumbprin			
F9E67D336C51002A	AC054C632022D66DDA2E7E3FFF10A		
2	Hongkong Post Root CA 2	Valid from 5 September 2015	
Subject DN			
	ong, L=Hong Kong, O=Hongkong Post,	, CN=Hongkong Post Root	
CA 2			
SHA-1 Thumbprint			
	930D44095F8FE596B582C8CA2		
-	SHA-256 Thumbprint		
3945E08A8D4A055	4B7605A7B355B10188E3EF842C76A		
3	Hongkong Post Root CA 3	Valid from 3 June 2017	
Subject DN			
C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root			
CA 3			
SHA-1 Thumbprint			
58A2D0EC2052815BC1F3F86402244EC28E024B02			
SHA-256 Thumbprint			
5A2FC03F0C83B09	0BBFA40604B0988446C7636183DF	9846E17101A447FB8EFD6	





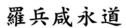
List of HKPCA's Subordinate CA:

Reference	Subordinate CA Name	Remarks	
1	Hongkong Post e-Cert CA 1 -	Revoked on 9 January 2010	
	10		
Subject DN			
	CN=Hongkong Post e-Cert CA 1	- 10	
SHA-1 Thumbprint			
	371DC932E3BD7DA86C27A		
SHA-256 Thumbprint			
44E24932FB1CD30DD94I	<u> 320C2F0F3B7B9EB33B5C3BFC9</u>		
2	Hongkong Post e-Cert CA 1 -	Issuance of SSL subscriber	
	10	certificate was terminated	
		from 1 January 2016 and	
		expired on 15 May 2023	
Subject DN			
	CN=Hongkong Post e-Cert CA 1	- 10	
SHA-1 Thumbprint			
3C8C897A8067713565626	201E9EB20262E1D58CB		
SHA-256 Thumbprint	The Albanda Company		
	30F401A9D3BA35A20CEEBCE88		
3	Hongkong Post e-Cert CA 1 -	Issuance of SSL subscriber	
	14	certificate was terminated	
		from 1 September 2016 and	
G 1' + DY		expired on 15 May 2023	
Subject DN	CN Handle as Death Cont CA		
	CN=Hongkong Post e-Cert CA 1	- 14	
SHA-1 Thumbprint	04 C-E4D 4 C-04 - C(C 4 A 0 0 0		
	7DE6BE6FD505A861C3C81C7F1D467315C664A928		
SHA-256 Thumbprint	=D060000060D6AE6004EE0=A	CEG100DA A010EE0EA14	
	7B8698922369B6AF6984FF87A	Issuance of SSL subscriber	
4	Hongkong Post e-Cert CA 1 -	certificate was terminated	
	15	from 1 July 2019 and expired	
		on 15 May 2023	
Subject DN		011 15 May 2023	
	Hong Kong, O=Hongkong Post, O	ON-Hongkong Post a_Cart CA 1	
	Tions Kons, O-Hongkong rost,	CIV-HOHEKOHE I OST E-CEIT CA I	
- 15 SHA-1 Thumbprint			
	5667C4F80F8A00DDFD26		
A19DF5F1BFB89686AF985667C4F80E8A09DDFD36 SHA-256 Thumbprint			
5CB9E9DE32B187E40BA14FDF200FDA62C7B4FBF88D64F77CE02DD6EBE6BCC1B0			
	Hongkong Post e-Cert CA 2 -	Valid from 5 September 2015	
5	15	valid from 5 deptember 2015	
Subject DN	≛∪	<u> </u>	
C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post e-Cert CA 2			
- 15	Tions Rons, 0–Hongrong Post, v	on-nongkong rost c-cert on 2	
<u>-J</u>			





Reference	Subordinate CA Name	Remarks	
SHA-1 Thumbprint	Suborumate CA Name	Remarks	
<u> </u>	EE o Dao a Cooo o E = = D E = 4 =		
	893FF8AFFC3738A49816EE0D134C9929E55BF747		
SHA-256 Thumbprint	Do 40 (CE 40 A 00 E 0 D==E4 D 0004)	A o D o C==4 ECoo=ECooo	
	CD2436CE43A02E9B77E1D99318	3A3B9C/51FC93/F6230	
6	Hongkong Post e-Cert CA 2 - 17	Valid from 12 August 2017	
Subject DN			
C=HK, ST=Hong Kong, L=	Hong Kong, O=Hongkong Post, G	CN=Hongkong Post e-Cert CA 2	
- 17			
SHA-1 Thumbprint			
8745EFDFE96260F27014	CCE8C8B98E7882A89B50		
SHA-256 Thumbprint			
CBB56EAEFD6FECDE240	08F2F9CE8C324CDDBD3D967A	5D76A9A22E81FF89B516AF	
7	Hongkong Post e-Cert CA 2 -	Valid from an July 2012	
	19	Valid from 29 July 2019	
Subject DN	-		
C=HK, ST=Hong Kong, L=	Hong Kong, O=Hongkong Post, G	CN=Hongkong Post e-Cert CA 2	
- 19		0 0	
SHA-1 Thumbprint			
FA3E35B01455216190505	b21f14D7A97CAAEE413		
SHA-256 Thumbprint	1 / 2/		
	46E0746174C034885606CBE462	228EDoAE9E5782583FB2	
8	Hongkong Post e-Cert SSL CA	Valid from 3 June 2017 for	
	3 - 17	issuance of non-EV SSL	
	3 1/	certificate	
Subject DN			
C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post e-Cert SSL			
CA 3 - 17			
SHA-1 Thumbprint			
92797871DC6Â0B6EE1417BB657D7ED6FC6F975EB			
SHA-256 Thumbprint			
69ECDBC3147F581DFDCB522D9DEFB260B26784AD4955C74E6A52522CCC4C4408			





		I 11 1 0 - 0	
9	Hongkong Post e-Cert EV SSL	Valid from 3 June 2017 for	
	CA 3 - 17	issuance of EV SSL certificate	
Subject DN			
C=HK, ST=Hong Kong, 1	L=Hong Kong, O=Hongkong Pos	t, CN=Hongkong Post e-Cert EV	
SSL CA 3 - 17			
SHA-1 Thumbprint			
6CA9BB1B3BAEF67D6I	05414132A7EFB212836639E		
SHA-256 Thumbprint			
	CBCACFD672E2566D4C81F6889	E36DF5DD425C04211D0763	
10	Hongkong Post Root CA 3	Cross certificate signed by	
		Hongkong Post Root CA 1 and	
		revoked on 12 August 2017	
Subject DN	1		
	L=Hong Kong, O=Hongkong Pos	t. CN=Hongkong Post Root CA 3	
SHA-1 Thumbprint	2 110119 110119, 0 110119110119 1 00	., e.,	
	8789EDCEF1EA51B3A898A5		
SHA-256 Thumbprint	0/0/22 021 122 022 0210 /0120		
	ABE294AC829440E0133E07791	1A67E1203CF111AC43C44	
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	
Cubicat DN		expired oil 15 May 2023	
Subject DN C. H. ST. Hang Kong, L. Hang Kong, O. Hangkong Post, CN. Hangkong Post Post CA o			
C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3			
SHA-1 Thumbprint	01DCEC 0 110E0 100-E0		
	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	
Subject DN		_	
C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3			
SHA-1 Thumbprint			
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
Subject DN C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3 SHA-1 Thumbprint 3069BCFC8DDoAFBAABA5CA81D23CCC6413131F6F SHA-256 Thumbprint		
	B7D30E0AF5C49E9F9FFFD5550	
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
Subject DN C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3 SHA-1 Thumbprint AF0F1F7AFBD02E3DDE39BD0B646CF97B7D122408 SHA-256 Thumbprint		
00482341B104A0DE6E0F1D508DB84CB514F7494FE04982133A5C750136C55DC8		





Appendix D - List of HKPCA's Certification Practice Statements

Document Names	Version
CPS for	OID = <u>1.3.6.1.4.1.16030.1.1.49</u> (valid from 21 December
e-Cert (Personal),	2023)
e-Cert (Organisational)	OID = <u>1.3.6.1.4.1.16030.1.1.50</u> (valid from 15 March 2024)
and	OID = <u>1.3.6.1.4.1.16030.1.1.51</u> (valid from 25 July 2024)
e-Cert (Encipherment)	OID = <u>1.3.6.1.4.1.16030.1.1.52</u> (valid from 28 August 2024)
CPS for e-Cert (Server)	OID = <u>1.3.6.1.4.1.16030.1.7.19</u> (valid from 21 December
	2023)
	OID = <u>1.3.6.1.4.1.16030.1.7.20</u> (valid from 22 March 2024)
	OID = <u>1.3.6.1.4.1.16030.1.7.21</u> (valid from 25 July 2024)
	OID = $\frac{1.3.6.1.4.1.16030.1.7.22}{4}$ (valid from 15 August 2024)
CPS for	
	OID = <u>1.3.6.1.4.1.16030.1.3.15</u> (valid from 21 December
e-Cert (Organisational Role)	2023)
	OID = <u>1.3.6.1.4.1.16030.1.3.16</u> (valid from 25 July 2024) OID = <u>1.3.6.1.4.1.16030.1.3.17</u> (valid from 21 August 2024)
	OID = $\frac{1.3.0.1.4.1.100.30.1.3.17}{\wedge}$ (valid Irolli 21 August 2024)
CPS for	OID = <u>1.3.6.1.4.1.16030.1.2.17</u> (valid from 1 December
Bank-Cert (Personal),	2022)
Bank-Cert (Corporate)	OID = <u>1.3.6.1.4.1.16030.1.2.18</u> (valid from 15 March 2024)
and	OID = <u>1.3.6.1.4.1.16030.1.2.19</u> (valid from 25 July 2024)
Bank-Cert (Bank)	OID = <u>1.3.6.1.4.1.16030.1.2.20</u> (valid from 21 August
	2024) ^
CPS for	OID = 1.3.6.1.4.1.16030.1.8.10 (valid from 21 December
g-Cert (Individual)	2023)
g-Cert (Functional Unit)	OID = <u>1.3.6.1.4.1.16030.1.8.11</u> (valid from 25 July 2024) ^
CPS for	OID = <u>1.3.6.1.4.1.16030.1.9.2</u> (valid from 1 November
iAM Smart-Cert	2022)
	OID = <u>1.3.6.1.4.1.16030.1.9.3</u> (valid from 11 July 2024)
	OID = <u>1.3.6.1.4.1.16030.1.9.4</u> (valid from 25 July 2024) ^

[^] Latest CPS version



PricewaterhouseCoopers 22/F Prince's Building Central Hong Kong

24 February 2025

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 2024 through 31 December 2024

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

- Subscriber registration
- Certificate renewal
- Certificate rekey
- Certificate issuance
- Certificate distribution
- Certificate revocation
- Certificate suspension
- Certificate validation
- Subscriber key generation and management
- Subordinate CA certification

The management of HKPCA with Certizen Limited ("Certizen") as its agent is responsible for establishing and maintaining effective controls over its CA operations, including its CA business practices disclosure on its website, CA business practice management, CA environmental controls, CA key lifecycle management controls, subscriber key lifecycle management controls, certificate lifecycle management controls, and subordinate CA 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.

The management of HKPCA with Certizen as its agent has assessed its disclosures of its certificate practices and controls over its CA services. 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 2024 to 31 December 2024, 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,
- maintained effective controls to provide reasonable assurance that:
 - HKPCA provides its service in accordance with its CPS referenced in Appendix B,
- 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); 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,

in accordance with the <u>WebTrust Principles and Criteria for Certification Authorities</u> $\underline{v2.2.2}$, including the following:

CA Business Practices Disclosure

• Certification Practice Statement ("CPS")

CA Business Practices Management

• Certification Practice Statement Management

<u>CA Environmental C</u>ontrols

- Security Management
- Asset Classification and Management
- Personnel Security
- Physical & Environmental Security



- Operations Management
- System Access Management
- System Development, Maintenance
- 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 and Destruction
- CA Key Compromise
- CA Cryptographic Hardware Lifecycle Management

Subscriber Key Lifecycle Management Controls

- CA-Provided Subscriber Key Generation Services
- CA-Provided Subscriber Key Storage and Recovery Services
- Requirements for Subscriber Key Management

Certificate Lifecycle Management Controls

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

Subordinate CA Certificate Lifecycle Management Controls

• Subordinate CA Certificate Lifecycle Management

HKPCA makes use of external registration authorities for specific subscriber registration activities as disclosed in HKPCA's business practices. Accordingly, our assertion does not extend to the controls exercised by these external registration authorities.

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

The certificate for the Hongkong Post Root CA 1 (Appendix A Root CA #1) CA expired



on 15 May 2023 and was not renewed.

HKPCA has disclosed five incidents (see Appendix C) during the period from 1 January 2024 to 31 December 2024. 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.

Yours faithfully,

(Lilian 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 l	Valid from 15 May 2003 and expired on 15 May 2023
Subject DN		
C=HK, O=Hongkon	g Post, CN=Hongkong Post Root CA	A 1
SHA-1 Thumbprint		
D6DAA8208D09D2	154D24B52FCB346EB258B28A58	
SHA-256 Thumbprin	<u>nt</u>	
F9E67D336C51002A	AC054C632022D66DDA2E7E3FFF	F10AD061ED31D8BBB410C
FB2		
2	Hongkong Post Root CA 2	Valid from 5 September 2015
Subject DN		
C=HK, ST=Hong Ko	ong, L=Hong Kong, O=Hongkong P	ost, CN=Hongkong Post Root
CA 2		
SHA-1 Thumbprint		
DE010808E41EC41	930D44095F8FE596B582C8CA2	
SHA-256 Thumbprin	<u>nt</u>	
3945E08A8D4A055	4B7605A7B355B10188E3EF842C7	76A805C54E3657C4D041AA
A		
3	Hongkong Post Root CA 3	Valid from 3 June 2017
Subject DN		
C=HK, ST=Hong Ko	ong, L=Hong Kong, O=Hongkong P	ost, CN=Hongkong Post Root
CA 3		
CIIA 1 Thomas have		

SHA-1 Thumbprint

58A2D0EC2052815BC1F3F86402244EC28E024B02

SHA-256 Thumbprint

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	
Subject DN			
C=HK, O=Hongkong Post	, CN=Hongkong Post e-Cert CA	1 - 10	
SHA-1 Thumbprint			
8E7DC57B719EF6EDAF	E371DC932E3BD7DA86C27A		
SHA-256 Thumbprint			
	B20C2F0F3B7B9EB33B5C3BF	C9344BC47A5167BFBD2	
A13			
2	Hongkong Post e-Cert CA 1 -	Issuance of SSL	
	10	subscriber certificate was	
		terminated from 1 January	
		2016 and expired on 15	
G 11 - DV		May 2023	
Subject DN	CN II I D (C (CA	1 10	
, ,	, CN=Hongkong Post e-Cert CA	1 - 10	
SHA-1 Thumbprint	6201E9EB20262E1D58CB		
SHA-256 Thumbprint	0201E9E D 20202E1D36C B		
<u>-</u>	30F401A9D3BA35A20CEEBC	E88E6DEA71B260A7C640	
D2	FJOI 401A/DJDAJJAZUCEEDC	L00L0D1 A71B207A7C040	
3	Hongkong Post e-Cert CA 1 -	Issuance of SSL	
	14	subscriber certificate was	
		terminated from 1	
		September 2016 and	
		expired on 15 May 2023	
Subject DN			
C=HK, O=Hongkong Post, CN=Hongkong Post e-Cert CA 1 - 14			
SHA-1 Thumbprint			
7DE6BE6FD505A861C3C81C7F1D467315C664A928			
SHA-256 Thumbprint			
14422A1BD5A91EDBA7397B8698922369B6AF6984FF87ACF6139DAA919E795A			
14			



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
Subject DN	L	011 12 111ay 2023
C=HK, ST=Hong K	ong, L=Hong Kong, O=Hongkong F	Post, CN=Hongkong Post e-
Cert CA 1 - 15		
SHA-1 Thumbprint	0.4	
	86AF985667C4F80E8A09DDFD36	
SHA-256 Thumbpri		
5CB9E9DE32B187 C1B0	E40BA14FDF200FDA62C7B4FBF8	88D64F77CE02DD6EBE6BC
5	Hongkong Post e-Cert CA 2 - 15	Valid from 5 September 2015
Subject DN		
C=HK, ST=Hong K	ong, L=Hong Kong, O=Hongkong P	Post, CN=Hongkong Post e-
Cert CA 2 - 15		
SHA-1 Thumbprint		
	A49816EE0D134C9929E55BF747	
SHA-256 Thumbpri		
		99318A3B9C751FC937F623
0		
6	Hongkong Post e-Cert CA 2 - 17	Valid from 12 August 2017
Subject DN		
C=HK, ST=Hong K	ong, L=Hong Kong, O=Hongkong P	Post, CN=Hongkong Post e-
Cert CA 2 - 17		
SHA-1 Thumbprint		
	27014CCE8C8B98E7882A89B50	
SHA-256 Thumbpri		
-	 CDE2408F2F9CE8C324CDDBD3D	967A5D76A9A22E81FF89B5
16AF		
7	Hongkong Post e-Cert CA 2 - 19	Valid from 29 July 2019
Subject DN		· ·
C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post e-		
Cert CA 2 - 19		
SHA-1 Thumbprint		
FA3E35B01455216190505b21f14D7A97CAAEE413		
SHA-256 Thumbprint		
5BFF0E9BCE3B75D36EA46E0746174C034885606CBE46228ED0AE9E5782583FB		
2		
L -		



	TT 1 D G GGT G 1 2	77 11 1 C
8	Hongkong Post e-Cert SSL CA 3	Valid from 3 June 2017 for
	- 17	issuance of non-EV SSL
		certificate
Subject DN		
	Kong, L=Hong Kong, O=Hongkong	Post, CN=Hongkong Post e-
Cert SSL CA 3 - 1		
SHA-1 Thumbprin		
92797871DC6A0H	B6EE1417BB657D7ED6FC6F975EE	3
SHA-256 Thumbp	<u>rint</u>	
69ECDBC3147F5	81DFDCB522D9DEFB260B26784A	.D4955C74E6A52522CCC4C4
408		
9	Hongkong Post e-Cert EV SSL CA 3 - 17	Valid from 3 June 2017 for issuance of EV SSL certificate
Subject DN		
	Kong, L=Hong Kong, O=Hongkong	Post, CN=Hongkong Post e-
Cert EV SSL CA		1 000, 011 110118110118 1 000 0
SHA-1 Thumbprin		
-	<u></u> F67D6D5414132A7EFB212836639I	3
SHA-256 Thumbp		
	D09BCBCACFD672E2566D4C81F6	5889F36DF5DD425C04211D0
763	D07DCDC/1C1D072E2300D1C011	7007E30D13DD 123C0 1211D0
10	Hongkong Post Root CA 3	Cross certificate signed by
10	Hongkong Fost Root C/F3	Hongkong Post Root CA 1
		and revoked on 12 August
		2017
Subject DN		2017
	Vona I - Hona Vona O- Honakona	Doot CN-Hongkong Doot Doot
C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3		
SHA-1 Thumbprint DDD535103509EGA DDC6780EDGEFFF A 51D3 A 808 A 5		
D0D535192598FCA8B68789EDCEF1EA51B3A898A5		
SHA-256 Thumbprint		
ABFA404ECEEA854381ABE294AC829440E0133E077911A67E1293CF111AC43C		
44		



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			
Subject DN					
	g Kong, L=Hong Kong, O=Hongkong	Post, CN=Hongkong Post Root			
	CA 3				
SHA-1 Thumbpr					
	AA5332321DCFF6077A19F04387F0				
SHA-256 Thumb	•	A E205 ADE A 45195D152527D0C			
	D6F47179EDE3DE63848B1543B45 <i>E</i>	AE2954BEA45185B152537B9C			
12	Honoltona Doot Doot CA 2	Chass contificate signed by			
12	Hongkong Post Root CA 3	Cross certificate signed by Hongkong Post Root CA 1 and			
		revoked on 27 July 2022			
Cubicat DM		Tevoked oil 27 July 2022			
Subject DN	a Vana I - Hana Vana O- Hanakana	Doot CN-Handrana Doot Doot			
C=HK, S1=Hong	g Kong, L=Hong Kong, O=Hongkong	Post, CN=Hongkong Post Root			
SHA-1 Thumbpr	int				
_	<u>m.</u> 3A89A8C1C5C44A584A8441319944				
SHA-256 Thumb					
	орин. C069D3BB442B78A3DB4049EE778	7D7C2941			
C	C009D3BB442B76A3DB4049EE776	/B/C2641A/BA0900B32/21/2			
13	Hongkong Post Root CA 3	Cross certificate signed by			
13	Holigkolig Post Root CA 3	Hongkong Post Root CA 1 and valid from 27 July 2022 and expired on 15 May 2023			
Subject DN					
C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root					
CA 3					
SHA-1 Thumbprint					
3069BCFC8DD0AFBAABA5CA81D23CCC6413131F6F					
SHA-256 Thumb	SHA-256 Thumbprint				
5544A24FEB21I	F681F1987D30E0AF5C49E9F9FFFD	5550A889B40B1EC9CC81E66			
7					



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

Subject DN

C=HK, ST=Hong Kong, L=Hong Kong, O=Hongkong Post, CN=Hongkong Post Root CA 3

SHA-1 Thumbprint

AF0F1F7AFBD02E3DDE39BD0B646CF97B7D122408

SHA-256 Thumbprint

00482341B104A0DE6E0F1D508DB84CB514F7494FE04982133A5C750136C55DC8



Appendix B

List of HKPCA's Certification Practice Statements:

Document Names	Version
CPS for	OID = 1.3.6.1.4.1.16030.1.1.49 (valid from 21 December
e-Cert (Personal),	2023)
e-Cert (Organisational)	OID = 1.3.6.1.4.1.16030.1.1.50 (valid from 15 March
and	2024)
e-Cert (Encipherment)	OID = 1.3.6.1.4.1.16030.1.1.51 (valid from 25 July 2024)
	OID = 1.3.6.1.4.1.16030.1.1.52 (valid from 28 August
	2024) ^
CPS for e-Cert (Server)	OID = 1.3.6.1.4.1.16030.1.7.19 (valid from 21 December
	2023)
	OID = 1.3.6.1.4.1.16030.1.7.20 (valid from 22 March
	2024)
	OID = 1.3.6.1.4.1.16030.1.7.21 (valid from 25 July 2024)
	OID = $1.3.6.1.4.1.16030.1.7.22$ (valid from 15 August
	2024) ^
CPS for	OID = 1.3.6.1.4.1.16030.1.3.15 (valid from 21 December
e-Cert (Organisational Role)	2023)
	OID = $\frac{1.3.6.1.4.1.16030.1.3.16}{1.3.6.1.4.1.16030.1.3.17}$ (valid from 25 July 2024)
	OID = 1.3.6.1.4.1.16030.1.3.17 (valid from 21 August
	2024) ^
CPS for	OID = $1.3.6.1.4.1.16030.1.2.17$ (valid from 1 December
Bank-Cert (Personal),	2022)
Bank-Cert (Corporate)	OID = $1.3.6.1.4.1.16030.1.2.18$ (valid from 15 March
and	2024)
Bank-Cert (Bank)	OID = $1.3.6.1.4.1.16030.1.2.19$ (valid from 25 July 2024)
	OID = $\frac{1.3.6.1.4.1.16030.1.2.20}{1.3.6.1.4.1.16030.1.2.20}$ (valid from 21 August
	2024) ^
CPS for	OID = 1.3.6.1.4.1.16030.1.8.10 (valid from 21 December
g-Cert (Individual)	2023)
g-Cert (Functional Unit)	OID = 1.3.6.1.4.1.16030.1.8.11 (valid from 25 July 2024)
	^
CPS for	OID = 1.3.6.1.4.1.16030.1.9.2 (valid from 1 November
iAM Smart-Cert	2022)
	OID = 1.3.6.1.4.1.16030.1.9.3 (valid from 11 July 2024)
	OID = <u>1.3.6.1.4.1.16030.1.9.4</u> (valid from 25 July 2024) ^

[^] Latest CPS version



Appendix C

Publicly disclosed incidents

Bugzilla	Disclosure	Publicly Disclosed Link
ID		-
1887888	Hongkong Post: Delayed revocation of TLS	Bugzilla Ticket Link
	certificates with basicConstraints not marked as	
	critical	
1887008	Hongkong Post: TLS certificates with	Bugzilla Ticket Link
	basicConstraints not marked as critical	
1886722	Hongkong Post: Delayed response to CPR	Bugzilla Ticket Link
1886665	Hongkong Post: Delayed revocation of TLS	Bugzilla Ticket Link
	certificates with Certificate Policies extension	
	problem	
1886406	Hongkong Post: TLS certificates with	Bugzilla Ticket Link
	Certificate Policies extension that does not	
	assert http scheme	