

INDEPENDENT ASSURANCE REPORT

To the management of BEIJING CERTIFICATE AUTHORITY Co., Ltd. ("BJCA"):

We have been engaged, in a reasonable assurance engagement, to report on BJCA management's assertion that for its Certification Authority (CA) operations at locations as enumerated in Appendix C, throughout the period 10 March 2023 to 9 March 2024 for its CAs as enumerated in Appendix A, BJCA has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in its Certification Practice Statement (CPS) and Certificate Policy (CP) as enumerated in Appendix B
- maintained effective controls to provide reasonable assurance that:
 - BJCA's Certification Practice Statement is consistent with its Certificate Policy
 - BJCA provides its services in accordance with its Certificate Policy and Certification Practice Statement
- 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; and
 - subscriber information is properly authenticated
- 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 [WebTrust Principles and Criteria for Certification Authorities v2.2.2](#).

BJCA does not escrow its CA keys and does not provide certificate suspension services. Accordingly, our procedures does not extend to controls that would address those criteria.

Certification authority's responsibilities

BJCA's management is responsible for its assertion, including the fairness of its presentation, and the provision of its described services in accordance with the [WebTrust Principles and Criteria for Certification Authorities v2.2.2](#).

Our independence and quality control

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 behaviour.

The firm applies International Standard on Quality Control 1, and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Auditor'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 BJCA'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 BJCA 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

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

Opinion

In our opinion, throughout the period 10 March 2023 to 9 March 2024, BJCA 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 v2.2.2](#).

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

Use of the WebTrust seal

BJCA'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.

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9 May 2024

Anthony Kam & Associates Ltd.

Appendix A

The list of keys and certificates covered in the management's assertion is as follow:

Subject DN	Key Type	Signature Algorithm	Key Size	Subject Key Identifier	SHA1 Certificate Thumbprints	SHA256 Certificate Thumbprints	Certificate Signed by
CN = BJCA Global Root CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Root Key	sha256RSA	4096 bits	C5EFEDCCD88D21C648E4E3D7142EA71693E59801	D5EC8D7B4CB0A882766A7FA79F4E7E8CB9D6BAE77831003216A	F3896F88FE7C0A882766A7FA6AD2749FB57A7F3E98FB769C1FA7B09C2C44D5AE	BJCA Global Root CA1
CN = BJCA EV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	B8D0A92CC1D098F5B5E59AB48344333C5DC68EBB	6C8C0FE05B07DF3EC60248A44EF5B07863D38CB2	115A2A45DB520361A2CDF0A395C4A4BD8A18902EAA4036792825F846BBD76917	BJCA Global Root CA1
CN = BJCA OV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	979E3DDE6F6661DACF9B488980BE268DD69CD7B	0A22BC3871D1402BDD48CD0EA46969F3E40DCF1	0A6BC3E2024AC462F5D72BE436AE61D033978EA8DDB63D4C5D6214915E69049B	BJCA Global Root CA1
CN = BJCA IV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	DFBC24E9910BDD34AC2D20F394C6EE1B9B526036	19B542B7B97422418E28FAE255F98F9436EAE49B	D70C597009AF3A3A37BDFABEA0C64108C7B83CD6C2042E8FF178A3EE8FE0CAE8	BJCA Global Root CA1
CN = BJCA DV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	0DBC8F111BA0C205422C38A16A882C993AF231CF	70B2B43140A8209FE3686476E455482E5591FB30	B408D6C82097121694B9B6548C5B4944594C081134F36C5BE88D74FA34759D91	BJCA Global Root CA1

<p>CN = BJCA TimeStamp CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	2048 bits	<p>234C1318B9C D20E7DF1337 5CB49C609CA 4B1F2BE</p>	<p>64D1D686B88 A70B2784E43F 74172105AB4 053C2A</p>	<p>245B753A631 DD7A5A5B0D 3E6DFECA459 9C7A1C93D71 CBA04ED7BC8 1D3986303F</p>	BJCA Global Root CA1
<p>CN = BJCA Generic CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	2048 bits	<p>BA6DE37E301 FFBEF4147C92 436694D4ED2 709BCF</p>	<p>52FDCAACF3B 8D86CD9A172 0A929D6EAF5 D2FF41F</p>	<p>19D0FE660DB C0FA948CF45 918E48DEFB8 396C4026903 BC19FE4F9155 2DFF4DC9</p>	BJCA Global Root CA1
<p>CN = BJCA Code Signing CA1 G2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	4096 bits	<p>642C5F6D522 989CC0E6A34 B7EEF782CD5 156927D</p>	<p>73CFC180589F 52980B5265F4 2CE609B472A 16705</p>	<p>9677A7E2ACB 3F5BA75AD9B CEE3C18A4C4 84DAF891B81 7F0AC713923 E4337EA56</p>	BJCA Global Root CA1
<p>CN = BJCA EV Code Signing CA1 G2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	4096 bits	<p>033DCCDFE44 04249018EE1C EB18310A438 6F8959</p>	<p>9B8D9769786 8141938D1AA 5F189AF6344B B5F118</p>	<p>418D2B75C8B 44B3A20FC93 F55D7006158 CC8C0F1A9C1 A8C5E8C902A ACF36B308</p>	BJCA Global Root CA1
<p>CN = BJCA TimeStamp CA1 G2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	4096 bits	<p>BB4F167A205 8F9AC81D1A4 0E557AC1D48 8121EBC</p>	<p>BFEBF8E857E5 1A7D53AC4B0 CB230D2507B B9224C</p>	<p>64FF2BFC836 D5980F58605F D80029F499B 805610E10467 B9DCCC0D32 7E0AF561</p>	BJCA Global Root CA1
<p>CN = BJCA Global Root CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Root Key	sha384ECDSA	384 bits	<p>D24AB1517F0 6F0D1821F4E6 E5FAB83FC48 D4B091</p>	<p>F42786EB6EB8 6D88316702F BBA66A45300 AA7AA6</p>	<p>574DF6931E2 78039667B720 AFDC1600FC2 7EB66DD3092 979FB7385648 7212882</p>	BJCA Global Root CA2

<p>CN = BJCA EV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256ECDSA	256 bits	279D5CC4300 030533996499 7CFDE6F7A96 EFA787	925377774599 ACA7417523D B15E8A5E5EC 30E6C2	E60147770534 1270FD12006 6B8DF26223E 6953C4DB8FA 7EA197EAF5B F8343B25	BJCA Global Root CA2
<p>CN = BJCA OV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256ECDSA	256 bits	CA1C62CFE81 50616C7FE01B 45C210BEB3B 92E3E8	387EBE6C0015 EA74B9EF4269 4C9EBB617E9 71D61	3A1A4BD6A62 468578DBC91 DC24705B276 A837CC18B6B EF1FF3F6ED0F E6326302	BJCA Global Root CA2
<p>CN = BJCA IV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256ECDSA	256 bits	6B39D730F3D 8570AA47F74 6D8699BF378 212F0E3	07C381DFC16 F3CC389F4628 302E64BADCD 112C33	2F9F41114DC ADC30784E40 FEF7D6EE063 A9BE7A363DE 5737E88FA111 8671505E	BJCA Global Root CA2
<p>CN = BJCA DV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256ECDSA	256 bits	DE37D665C8F CAF8063B2B9 726B06E75E15 37A25D	BA0866235B8 CA2DAE7E564 95DEB0664BB 67ADDAC	3F5CB1531CB 1223AABFB70 872DC43D2D D6CC3D2823E 96B458A9F8A 7EC0265946	BJCA Global Root CA2
<p>CN = BJCA Global Root CA3 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Root Key	sha256RSA	4096 bits	746FBA42408 008EA5D266E 968ADDBF840 583D2DF	3ECFEB8B92CF DCC7F3502E1 1887C065AD4 6BE798	AAA04877335 0488832AABD A6954B33EE2 8BB2773DD85 1AB3C4F6F1D 2F9F3777B	BJCA Global Root CA3
<p>CN = BJCA DocSign CA3 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	2048 bits	C388C0F9798 5D4883F9F99 C5CE541371A 89D5FD0	57ED82AF334 8C76BF136357 5DE45F32E928 72704	20F06D387FB 129121713B4E F93A82A436F D9E615233A3 C444891CDAC B95D5EC7	BJCA Global Root CA3

<p>CN = BJCA TimeStamp CA3 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	4096 Bits	<p>CC6510A42D4 051CC2592F4 B5603C7387B 357C86B</p>	<p>858802F88DC 692BDA15D81 4ACBA604A56 5B6B3E5</p>	<p>FD225061F3D AECB3A9EA14 9D60AF9AC89 47EF398AA24 33227003170B 7BD48455</p>	BJCA Global Root CA3
<p>CN = BJCA Global Root CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Root Key	SM3WithSM2	256 Bits	<p>6F40AC08D2D F5FBAF614A0 CDBD6855AA 890238E7</p>	<p>5860EE6465E8 FD28DD37245 028AA27B99F CD9F64</p>	<p>AA486528A63 D0017D2C707 7B567FC2875 B4BB266783C D8A58B726F9 AC297201F</p>	BJCA Global Root CA4
<p>CN = BJCA EV SSL CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>614DC72F2D5 C02F77F7E48B ABC27DF5602 02E866</p>	<p>EEF2D3D6D55 03BE2248BC7 15AFD15EB05 C547272</p>	<p>8109F5D475F DD4FE0D82D6 38CFDAF7FB0 6D98CF0EF36 7374FC2D239 C0EDC60FD</p>	BJCA Global Root CA4
<p>CN = BJCA SSL CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>2B72EBA676D 6E9BAC6EDE4 669149C421C 94C5A26</p>	<p>786B502AAE7 FEB8EE06AE83 FC0BED3686C 808FE5</p>	<p>B66617BEA8B 9ED4D202B0C 66585F2F6BF6 CA49420253B 24EA50D0A72 06AA53A1</p>	BJCA Global Root CA4
<p>CN = BJCA EV Code Signing CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>563EA4B9A41 6675F348FC13 CC16DECA8FE F15B80</p>	<p>8BC104AA61E C71D2305404 9987C1F60BF0 7C2F3F</p>	<p>740C7A3532D 3DCB68D9250 4F9A2F22FF22 F0356B43CA4 0C3BD17B7F7 2CB4AD0C</p>	BJCA Global Root CA4

<p>CN = BJCA Code Signing CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>DF761348EB2F08DEF2549B206A48B78585 4B1D1C9813E01B111D20816473C0F69554 6058D45E9B90B1C1804329CCB99F888EF9 63CFE6888F68A9995A91797F8 4AE6BA</p>	<p>3E9C87D3B61 06A48B78585 6473C0F69554 CCB99F888EF9 9995A91797F8 4AE6BA</p>	BJCA Global Root CA4
<p>CN = BJCA TimeStamp CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>055D6EBF9058661CEC355A 7E9F2647044A7AAE0A20ADE0F0CFC6CBD 89B28BDD585CE380678FAF9DEE76FEDC80 4AAA4A3798A69C5AA14289E4 10D6C48BD</p>	<p>A7AF1DF1294 C3895AF434A E0F0CFC6CBD DEE76FEDC80 C5AA14289E4 10D6C48BD</p>	BJCA Global Root CA4
<p>CN = BJCA Generic CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>90756CD78B50ED7B0FD27D5C0EAC3D67E AFD1CDD9E7388855D85CA3F4D87819280 7DEF9DA971E545F87605BE3B8BC11220FD C235DACDF409CF4659708C64B 45ED4551</p>	<p>A605330C3FB 5C0EAC3D67E F4D87819280 B8BC11220FD F4659708C64B 45ED4551</p>	BJCA Global Root CA4
<p>CN = BJCA DocSign CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>B481FE5D9E3C59E85D3B56 C11F74A7E2FA92F31062D7 A1FB24C9C59FFAECE5DB05 C99B240E60E229</p>	<p>F339C5073B4F 523350B3BA0 4ACFB099EFE3 229F80DDA80 85D7A30B636 15349C6</p>	BJCA Global Root CA4

Appendix B

Applicable versions of Certification Practice Statement (CPS) and Certificate Policy (CP) in-scope:

Name	Version	Date
Beijing Certificate Authority Co., Ltd. Global Certification Practice Statement	1.0.9	1 March 2024
Beijing Certificate Authority Co., Ltd. Global Certification Practice Statement	1.0.8	13 September 2023
Beijing Certificate Authority Co., Ltd. Global Certification Practice Statement	1.0.7	10 August 2023
Beijing Certificate Authority Co., Ltd. Global Certification Practice Statement	1.0.6	25 July 2022
Beijing Certificate Authority Co., Ltd. SM2 Global-Trust System Certification Practice Statement	1.0.6	1 March 2024
Beijing Certificate Authority Co., Ltd. SM2 Global-Trust System Certification Practice Statement	1.0.5	23 February 2023
Beijing Certificate Authority Co., Ltd. Global Certificate Policy	1.0.9	1 March 2024
Beijing Certificate Authority Co., Ltd. Global Certificate Policy	1.0.8	13 September 2023
Beijing Certificate Authority Co., Ltd. Global Certificate Policy	1.0.7	10 August 2023
Beijing Certificate Authority Co., Ltd. Global Certificate Policy	1.0.6	25 July 2022
Beijing Certificate Authority Co., Ltd. SM2 Global-Trust System Certificate Policy	1.0.6	1 March 2024
Beijing Certificate Authority Co., Ltd. SM2 Global-Trust System Certificate Policy	1.0.5	23 February 2023

Appendix C

Locations in-scope:

Location	Function
Beijing (North), China	Datacenter Facility, Administration and Support
Beijing (South), China	Datacenter Facility

BJCA MANAGEMENT'S ASSERTION

BEIJING CERTIFICATE AUTHORITY Co., Ltd. ("BJCA") operates the Certification Authority (CA) services known as CAs in Appendix A, and provides the following CA services:

- Subscriber registration
- Certificate renewal
- Certificate rekey
- Certificate issuance
- Certificate distribution
- Certificate revocation
- Certificate validation
- Subscriber key generation and management

The management of BJCA is responsible for establishing and maintaining effective controls over its CA operations, including its CA business practices disclosure on its website, CA business practices 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 BJCA's Certification Authority operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

BJCA management has assessed its disclosures of its certificate practices and controls over its CA services. Based on that assessment, in BJCA management's opinion, in providing its Certification Authority (CA) services at locations as enumerated in Appendix C, throughout the period 10 March 2023 to 9 March 2024, BJCA has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in its Certification Practice Statement (CPS) and Certificate Policy (CP) as enumerated in Appendix B
- maintained effective controls to provide reasonable assurance that:
 - BJCA's applicable versions of Certification Practice Statement are consistent with its applicable versions of Certificate Policy; and
 - BJCA provides its services in accordance with its Certificate Policy and Certification Practice Statement
- 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; and
 - subscriber information is properly authenticated
- 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 v2.2.2](#), including the following:

CA Business Practices Disclosure

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

CA Business Practices Management

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

CA Environmental Controls

- Security Management
- Asset Classification and Management
- Personnel Security
- Physical & Environmental Security
- Operations Management
- System Access Management
- System Development and 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
- Integrated Circuit Card (ICC) Lifecycle Management
- Requirements for Subscriber Key Management

Certificate Lifecycle Management Controls

- Subscriber Registration
- Certificate Renewal

- Certificate Rekey
- Certificate Issuance
- Certificate Distribution
- Certificate Revocation
- Certificate Validation

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

Mr. Xueyan Lin _____
CEO of BEIJING CERTIFICATE AUTHORITY Co., Ltd.
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9 May 2024



Appendix A

The list of keys and certificates covered in the management's assertion is as follow:

Subject DN	Key Type	Signature Algorithm	Key Size	Subject Key Identifier	SHA1 Certificate Thumbprints	SHA256 Certificate Thumbprints	Certificate Signed by
CN = BJCA Global Root CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Root Key	sha256RSA	4096 bits	C5EFEDCCD88 D21C648E4E3 D7142EA7169 3E59801	D5EC8D7B4CB A79F4E7E8CB 9D6BAE77831 003216A	F3896F88FE7C 0A882766A7F A6AD2749FB5 7A7F3E98FB76 9C1FA7B09C2 C44D5AE	BJCA Global Root CA1
CN = BJCA EV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	B8D0A92CC1 D098F5B5E59 AB48344333C 5DC68EBB	6C8C0FE05B0 7DF3EC60248 A44EF5B0786 3D38CB2	115A2A45DB5 20361A2CDF0 A395C4A4BD8 A18902EAA40 36792825F846 BBD76917	BJCA Global Root CA1
CN = BJCA OV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	979E3DDE6F6 661DACF9B48 8980BE268DD D69CD7B	0A22BC3871D 1402BDD48CD B0EA46969F3E 40DCF1	0A6BC3E2024 AC462F5D72B E436AE61D03 3978EA8DDB6 3D4C5D62149 15E69049B	BJCA Global Root CA1
CN = BJCA IV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	DFBC24E9910 BDD34AC2D2 0F394C6EE1B9 B526036	19B542B7B97 422418E28FAE 255F98F9436E AE49B	D70C597009A F3A3A37BDFA BEA0C64108C 7B83CD6C204 2E8FF178A3EE 8FEOCAE8	BJCA Global Root CA1
CN = BJCA DV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	0DBC8F111BA 0C205422C38 A16A882C993 AF231CF	70B2B43140A 8209FE368647 6E455482E559 1FB30	B408D6C8209 7121694B9B65 48C5B494459 4C081134F36 C5BE88D74FA 34759D91	BJCA Global Root CA1

<p>CN = BJCA TimeStamp CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	2048 bits	234C1318B9C D20E7DF1337 5CB49C609CA 4B1F2BE	64D1D686B88 A70B2784E43F 74172105AB4 053C2A	245B753A631 DD7A5A5B0D 3E6DFECA459 9C7A1C93D71 CBA04ED7BC8 1D3986303F	BJCA Global Root CA1
<p>CN = BJCA Generic CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	2048 bits	BA6DE37E301 FFBEF4147C92 436694D4ED2 709BCF	52FDCAACF3B 8D86CD9A172 0A929D6EAF5 D2FF41F	19D0FE660DB C0FA948CF45 918E48DEFB8 396C4026903 BC19FE4F9155 2DFF4DC9	BJCA Global Root CA1
<p>CN = BJCA Code Signing CA1 G2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	4096 bits	642C5F6D522 989CC0E6A34 B7EEF782CD5 156927D	73CFC180589F 52980B5265F4 2CE609B472A 16705	9677A7E2ACB 3F5BA75AD9B CEE3C18A4C4 84DAF891B81 7F0AC713923 E4337EA56	BJCA Global Root CA1
<p>CN = BJCA EV Code Signing CA1 G2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	4096 bits	033DCCDFE44 04249018EE1C EB18310A438 6F8959	9B8D9769786 8141938D1AA 5F189AF6344B B5F118	418D2B75C8B 44B3A20FC93 F55D7006158 CC8C0F1A9C1 A8C5E8C902A ACF36B308	BJCA Global Root CA1
<p>CN = BJCA TimeStamp CA1 G2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	4096 bits	BB4F167A205 8F9AC81D1A4 0E557AC1D48 8121EBC	BFEFB8E857E5 1A7D53AC4B0 CB230D2507B B9224C	64FF2BFC836 D5980F58605F D80029F499B 805610E10467 B9DCCC0D32 7E0AF561	BJCA Global Root CA1
<p>CN = BJCA Global Root CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Root Key	sha384ECDSA	384 bits	D24AB1517F0 6F0D1821F4E6 E5FAB83FC48 D4B091	F42786EB6EB8 6D88316702F BBA66A45300 AA7AA6	574DF6931E2 78039667B720 AFDC1600FC2 7EB66DD3092 979FB7385648 7212882	BJCA Global Root CA2

<p>CN = BJCA EV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256ECDSA	256 bits	<p>279D5CC43009253777745991270FD12006 030533996499ACA7417523D6BBDF26223E 7CFDE6F7A96B15E8A5E5EC6953C4DB8FA EFA78730E6C27EA197EAF5B F8343B25</p>	E60147770534	BJCA Global Root CA2
<p>CN = BJCA OV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256ECDSA	256 bits	<p>CA1C62CFE81387EBE6C0015468578DBC91 50616C7FE01BEA74B9EF4269DC24705B276 45C210BEB3B4C9EBB617E9A837CC18B6B 92E3E871D61EF1FF3F6ED0F E6326302</p>	3A1A4BD6A62	BJCA Global Root CA2
<p>CN = BJCA IV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256ECDSA	256 bits	<p>6B39D730F3D07C381DFC16ADC30784E40 8570AA47F74F3CC389F4628FEF7D6EE063 6D8699BF378302E64BAD4A9BE7A363DE 212F0E3112C335737E88FA111 8671505E</p>	2F9F41114DC	BJCA Global Root CA2
<p>CN = BJCA DV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256ECDSA	256 bits	<p>DE37D665C8FBA0866235B81223AABFB70 CAF8063B2B9CA2DAE7E564872DC43D2D 726B06E75E1595DEB0664BB6DCC3D2823E 37A25D67ADDAC96B458A9F8A 7EC0265946</p>	3F5CB1531CB	BJCA Global Root CA2
<p>CN = BJCA Global Root CA3 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Root Key	sha256RSA	4096 bits	<p>746FBA424083ECFEB8B92CF0488832AABD 008EA5D266EDCC7F3502E1A6954B33EE2 968ADDBF8401887C065AD48BB2773DD85 583D2DF6BE7981AB3C4F6F1D 2F9F3777B</p>	AAA04877335	BJCA Global Root CA3
<p>CN = BJCA DocSign CA3 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	2048 bits	<p>C388C0F979857ED82AF334129121713B4E 5D4883F9F998C76BF136357F93A82A436F C5CE541371A5DE45F32E928D9E615233A3 89D5FD072704C444891CDAC B95D5EC7</p>	20F06D387FB	BJCA Global Root CA3

<p>CN = BJCA TimeStamp CA3 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	4096 Bits	<p>CC6510A42D4858802F88DC 051CC2592F4692BDA15D81 B5603C7387B4ACBA604A56 357C86B5B6B3E5</p>	<p>FD225061F3D AECB3A9EA14 9D60AF9AC89 47EF398AA24 33227003170B 7BD48455</p>	BJCA Global Root CA3
<p>CN = BJCA Global Root CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Root Key	SM3WithSM2	256 Bits	<p>6F40AC08D2D5860EE6465E8 F5FBAF614A0FD28DD37245 CDBD6855AA028AA27B99F 890238E7CD9F64</p>	<p>AA486528A63 D0017D2C707 7B567FC2875 B4BB266783C D8A58B726F9 AC297201F</p>	BJCA Global Root CA4
<p>CN = BJCA EV SSL CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>614DC72F2D5EEF2D3D6D55 C02F77F7E48B03BE2248BC7 ABC27DF560215AFD15EB05 02E866C547272</p>	<p>8109F5D475F DD4FE0D82D6 38CFDAF7FB0 6D98CF0EF36 7374FC2D239 C0EDC60FD</p>	BJCA Global Root CA4
<p>CN = BJCA SSL CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>2B72EBA676D786B502AAE7 6E9BAC6EDE4FEB8EE06AE83 669149C421CFC0BED3686C 94C5A26808FE5</p>	<p>B66617BEA8B 9ED4D202B0C 66585F2F6BF6 CA49420253B 24EA50D0A72 06AA53A1</p>	BJCA Global Root CA4
<p>CN = BJCA EV Code Signing CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>563EA4B9A418BC104AA61E 6675F348FC13C71D2305404 CC16DECA8FE9987C1F60BF0 F15B807C2F3F</p>	<p>740C7A3532D 3DCB68D9250 4F9A2F22FF22 F0356B43CA4 0C3BD17B7F7 2CB4ADOC</p>	BJCA Global Root CA4
<p>CN = BJCA Code Signing CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>DF761348EB2F08DEF2549B2 4B1D1C9813E01B111D2081 6058D45E9B90B1C1804329 63CFE6888F68A</p>	<p>3E9C87D3B61 06A48B78585 6473C0F69554 CCB99F888EF9 9995A91797F8 4AE6BA</p>	BJCA Global Root CA4

<p>CN = BJCA TimeStamp CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>055D6EBF905 7E9F2647044A 89B28BDD585 4AAA4A</p>	<p>8661CEC355A 7AAE0A20AD CE380678FAF9 3798A69</p>	<p>A7AF1DF1294 C3895AF434A E0F0CFC6CBD DEE76FEDC80 C5AA14289E4 10D6C48BD</p>	BJCA Global Root CA4
<p>CN = BJCA Generic CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>90756CD78B5 AFD1CDD9E73 7DEF9DA971E C235DAC</p>	<p>0ED7B0FD27D 88855D85CA3 545F87605BE3 DF409C</p>	<p>A605330C3FB 5C0EAC3D67E F4D87819280 B8BC11220FD F4659708C64B 45ED4551</p>	BJCA Global Root CA4
<p>CN = BJCA DocSign CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>B481FE5D9E3 C11F74A7E2F A1FB24C9C59 C99B240</p>	<p>C59E85D3B56 A92F31062D7 FFAECE5DB05 E60E229</p>	<p>F339C5073B4F 523350B3BA0 4ACFB099EFE3 229F80DDA80 85D7A30B636 15349C6</p>	BJCA Global Root CA4

Appendix B

Applicable versions of Certification Practice Statement (CPS) and Certificate Policy (CP) in-scope:

Name	Version	Date
Beijing Certificate Authority Co., Ltd. Global Certification Practice Statement	1.0.9	1 March 2024
Beijing Certificate Authority Co., Ltd. Global Certification Practice Statement	1.0.8	13 September 2023
Beijing Certificate Authority Co., Ltd. Global Certification Practice Statement	1.0.7	10 August 2023
Beijing Certificate Authority Co., Ltd. Global Certification Practice Statement	1.0.6	25 July 2022
Beijing Certificate Authority Co., Ltd. SM2 Global-Trust System Certification Practice Statement	1.0.6	1 March 2024
Beijing Certificate Authority Co., Ltd. SM2 Global-Trust System Certification Practice Statement	1.0.5	23 February 2023
Beijing Certificate Authority Co., Ltd. Global Certificate Policy	1.0.9	1 March 2024
Beijing Certificate Authority Co., Ltd. Global Certificate Policy	1.0.8	13 September 2023
Beijing Certificate Authority Co., Ltd. Global Certificate Policy	1.0.7	10 August 2023
Beijing Certificate Authority Co., Ltd. Global Certificate Policy	1.0.6	25 July 2022
Beijing Certificate Authority Co., Ltd. SM2 Global-Trust System Certificate Policy	1.0.6	1 March 2024
Beijing Certificate Authority Co., Ltd. SM2 Global-Trust System Certificate Policy	1.0.5	23 February 2023

Appendix C

Locations in-scope:

Location	Function
Beijing (North), China	Datacenter Facility, Administration and Support
Beijing (South), China	Datacenter Facility

独立鉴证报告

(注意：本中文报告只作参考。正文请参阅英文报告。)

致：北京数字认证股份有限公司管理阶层

我们接受委托，对附表 A 的北京数字认证股份有限公司（以下简称“BJCA”）于 2023 年 3 月 10 日至 2024 年 3 月 9 日就 BJCA 在附表 C 所列地点运营的电子认证服务其管理阶层认定执行了合理保证的鉴证业务。根据管理阶层认定，BJCA 已：

- 在附表 B 列举的认证体系电子认证业务规则（CPS）和认证体系证书策略（CP）中披露了电子认证业务、密钥生命周期管理、证书生命周期管理，以及 CA 环境控制管理
- 通过有效控制机制，以提供以下合理保证：
 - BJCA 的 CPS 与 CP 相符；
 - BJCA 遵循 CP 和 CPS 提供电子认证服务
- 通过有效控制机制，以提供以下合理保证：
 - 有效维护所管理的密钥与证书在生命周期中的完整性；
 - 建立并保护所管理的订户密钥和订户证书在生命周期中的完整性；以及
 - 于 BJCA 所执行的注册操作恰当地鉴定证书申请者的信息
- 通过有效控制机制，以提供以下合理保证：
 - 对 CA 系统和数据的逻辑和物理访问仅限于授权的个人；
 - 保持密钥和证书管理操作的连续性；以及
 - CA 系统的开发，维护和操作得到适当的授权和执行，以维持 CA 系统的完整

以符合 [WebTrust Principles and Criteria for Certification Authorities v2.2.2](#)。

BJCA 未托管其私钥，亦未提供证书挂起服务。据此，我们的程序未延伸至相关标准的有关控制。

BJCA 的责任

BJCA 的管理层负责确保管理层认定，包括其陈述的客观性以及认定中描述的 BJCA 所提供的服务能够符合 [WebTrust Principles and Criteria for Certification Authorities v2.2.2](#) 的规定。

审计师的独立性和质量控制

我们保持独立性并遵守国际道德委员会针对会计人员发布的职业会计师道德准则 (*Code of Ethics for Professional Accountants*) 规定的道德要求，该准则是建立在正直、客观、专业能力和谨慎、保密和职业行为的基本原则之上。我们公司遵循国际标准要求的质量控制 1 (*International Standard on Quality Control 1*)，并据此维护全面的质量控制体系，包括符合道德要求、专业标准和适用法律法规要求的文件化的政策和程序。

审计师的责任

我们的职责是在执行鉴证工作的基础上对 BJCA 的管理层认定发表结论。我们根据国际审计与鉴证准则理事会发布的国际鉴证业务准则第 3000 号 “*历史财务信息审计或审阅以外的鉴证业务*” 的规定执行了鉴证工作。此准则要求我们计划并执行相应的审计程序以获取所有重大方面和对管理层认定的合理保证，包括：

- (1) 了解 BJCA 密钥和证书生命周期管理及对密钥和证书完整性的控制措施，包括订户和依赖方信息的真实性和保密性，密钥和证书生命周期管理的连续性，以及系统开发、运维的完整性；
- (2) 选择测试业务操作是否遵守了所披露的证书生命周期管理；
- (3) 测试和评估控制活动执行的有效性；以及
- (4) 执行其他我们认为必要的鉴证程序。

我们相信，我们获取的证据是充分、适当的，为发表鉴证结论提供了基础。

控制的有效性

BJCA 的内部控制的有效性和重要性，及其对用户及相关依赖方的控制风险评估所产生的影响，取决于控制间的相互作用以及其他存在于每个用户和相关依赖方的因素。我们并没有对用户和依赖方所负责的控制的有效性进行任何评估工作。

固有限制

由于内部控制体系本身的限制，BJCA 满足上述要求的能力可能会受到影响，例如：控制可能未达到预防、发现或纠正错误、舞弊、对系统或信息的未授权访问，或违反内外部制度或规定的要求。此外，风险的变化可能会影响本评估报告在将来时间的参考价值。

结论

我们认为，BJCA 于 2023 年 3 月 10 日至 2024 年 3 月 9 日期间的电子认证服务的管理层认定在所有重大方面符合 [WebTrust Principles and Criteria for Certification Authorities v2.2.2](#)。

本报告并不包括任何在 [WebTrust Principles and Criteria for Certification Authorities v2.2.2](#) 以外的质量标准声明，或任何客户对 BJCA 服务的合适性声明。

对 Webtrust 标识的使用


在 BJCA 网站上的 WebTrust 电子认证标识是本报告内容的一种符号表示，它并不是为了也不应被认为是对本报告的更新或任何进一步的保证。

AKAM

Anthony Kam & Associates Ltd.

2105 Wing On Ctr, 111 Connaught Road, HK SAR, China

9 May 2024



附件表 A

本认定报告内包括的密钥与证书列举如下:

Subject DN	Key Type	Signature Algorithm	Key Size	Subject Key Identifier	SHA1 Certificate Thumbprints	SHA256 Certificate Thumbprints	Certificate Signed by
CN = BJCA Global Root CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Root Key	sha256RSA	4096 bits	C5EFEDCCD88 D21C648E4E3 D7142EA7169 3E59801	D5EC8D7B4CB A79F4E7E8CB 9D6BAE77831 003216A	F3896F88FE7C 0A882766A7F A6AD2749FB5 7A7F3E98FB76 9C1FA7B09C2 C44D5AE	BJCA Global Root CA1
CN = BJCA EV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	B8D0A92CC1 D098F5B5E59 AB48344333C 5DC68EBB	6C8C0FE05B0 7DF3EC60248 A44EF5B0786 3D38CB2	115A2A45DB5 20361A2CDF0 A395C4A4BD8 A18902EAA40 36792825F846 BBD76917	BJCA Global Root CA1
CN = BJCA OV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	979E3DDE6F6 661DACF9B48 8980BE268DD D69CD7B	0A22BC3871D 1402BDD48CD B0EA46969F3E 40DCF1	0A6BC3E2024 AC462F5D72B E436AE61D03 3978EA8DDB6 3D4C5D62149 15E69049B	BJCA Global Root CA1
CN = BJCA IV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	DFBC24E9910 BDD34AC2D2 0F394C6EE1B9 B526036	19B542B7B97 422418E28FAE 255F98F9436E AE49B	D70C597009A F3A3A37BDFA BEA0C64108C 7B83CD6C204 2E8FF178A3EE 8FE0CAE8	BJCA Global Root CA1
CN = BJCA DV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	0DBC8F111BA 0C205422C38 A16A882C993 AF231CF	70B2B43140A 8209FE368647 6E455482E559 1FB30	B408D6C8209 7121694B9B65 48C5B494459 4C081134F36 C5BE88D74FA 34759D91	BJCA Global Root CA1

<p>CN = BJCA TimeStamp CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	2048 bits	<p>234C1318B9C D20E7DF1337 5CB49C609CA 4B1F2BE</p>	<p>64D1D686B88 A70B2784E43F 74172105AB4 053C2A</p>	<p>245B753A631 DD7A5A5B0D 3E6DFECA459 9C7A1C93D71 CBA04ED7BC8 1D3986303F</p>	BJCA Global Root CA1
<p>CN = BJCA Generic CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	2048 bits	<p>BA6DE37E301 FFBEF4147C92 436694D4ED2 709BCF</p>	<p>52FDCAACF3B 8D86CD9A172 0A929D6EAF5 D2FF41F</p>	<p>19D0FE660DB C0FA948CF45 918E48DEFB8 396C4026903 BC19FE4F9155 2DFF4DC9</p>	BJCA Global Root CA1
<p>CN = BJCA Code Signing CA1 G2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	4096 bits	<p>642C5F6D522 989CC0E6A34 B7EEF782CD5 156927D</p>	<p>73CFC180589F 52980B5265F4 2CE609B472A 16705</p>	<p>9677A7E2ACB 3F5BA75AD9B CEE3C18A4C4 84DAF891B81 7F0AC713923 E4337EA56</p>	BJCA Global Root CA1
<p>CN = BJCA EV Code Signing CA1 G2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	4096 bits	<p>033DCCDFE44 04249018EE1C EB18310A438 6F8959</p>	<p>9B8D9769786 8141938D1AA 5F189AF6344B B5F118</p>	<p>418D2B75C8B 44B3A20FC93 F55D7006158 CC8C0F1A9C1 A8C5E8C902A ACF36B308</p>	BJCA Global Root CA1
<p>CN = BJCA TimeStamp CA1 G2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	4096 bits	<p>BB4F167A205 8F9AC81D1A4 0E557AC1D48 8121EBC</p>	<p>BFEBF8E857E5 1A7D53AC4B0 CB230D2507B B9224C</p>	<p>64FF2BFC836 D5980F58605F D80029F499B 805610E10467 B9DCCC0D32 7E0AF561</p>	BJCA Global Root CA1
<p>CN = BJCA Global Root CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Root Key	sha384ECDSA	384 bits	<p>D24AB1517F0 6F0D1821F4E6 E5FAB83FC48 D4B091</p>	<p>F42786EB6EB8 6D88316702F BBA66A45300 AA7AA6</p>	<p>574DF6931E2 78039667B720 AFDC1600FC2 7EB66DD3092 979FB7385648 7212882</p>	BJCA Global Root CA2

<p>CN = BJCA EV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256ECDSA	256 bits	279D5CC4300 030533996499 7CFDE6F7A96 EFA787	925377774599 ACA7417523D B15E8A5E5EC 30E6C2	E60147770534 1270FD12006 6B8BDF26223E 6953C4DB8FA 7EA197EAF5B F8343B25	BJCA Global Root CA2
<p>CN = BJCA OV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256ECDSA	256 bits	CA1C62CFE81 50616C7FE01B 45C210BEB3B 92E3E8	387EBE6C0015 EA74B9EF4269 4C9EBB617E9 71D61	3A1A4BD6A62 468578DBC91 DC24705B276 A837CC18B6B EF1FF3F6ED0F E6326302	BJCA Global Root CA2
<p>CN = BJCA IV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256ECDSA	256 bits	6B39D730F3D 8570AA47F74 6D8699BF378 212F0E3	07C381DFC16 F3CC389F4628 302E64BADCD 112C33	2F9F41114DC ADC30784E40 FEF7D6EE063 A9BE7A363DE 5737E88FA111 8671505E	BJCA Global Root CA2
<p>CN = BJCA DV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256ECDSA	256 bits	DE37D665C8F CAF8063B2B9 726B06E75E15 37A25D	BA0866235B8 CA2DAE7E564 95DEB0664BB 67ADDAC	3F5CB1531CB 1223AABFB70 872DC43D2D D6CC3D2823E 96B458A9F8A 7EC0265946	BJCA Global Root CA2
<p>CN = BJCA Global Root CA3 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Root Key	sha256RSA	4096 bits	746FBA42408 008EA5D266E 968ADDBF840 583D2DF	3ECFEB8B92CF DCC7F3502E1 1887C065AD4 6BE798	AAA04877335 0488832AABD A6954B33EE2 8BB2773DD85 1AB3C4F6F1D 2F9F3777B	BJCA Global Root CA3
<p>CN = BJCA DocSign CA3 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	2048 bits	C388C0F9798 5D4883F9F99 C5CE541371A 89D5FD0	57ED82AF334 8C76BF136357 5DE45F32E928 72704	20F06D387FB 129121713B4E F93A82A436F D9E615233A3 C444891CDAC B95D5EC7	BJCA Global Root CA3

<p>CN = BJCA TimeStamp CA3 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	sha256RSA	4096 Bits	<p>CC6510A42D4 051CC2592F4 B5603C7387B 357C86B</p>	<p>858802F88DC 692BDA15D81 4ACBA604A56 5B6B3E5</p>	<p>FD225061F3D AECB3A9EA14 9D60AF9AC89 47EF398AA24 33227003170B 7BD48455</p>	BJCA Global Root CA3
<p>CN = BJCA Global Root CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Root Key	SM3WithSM2	256 Bits	<p>6F40AC08D2D F5FBAF614A0 CDBD6855AA 890238E7</p>	<p>5860EE6465E8 FD28DD37245 028AA27B99F CD9F64</p>	<p>AA486528A63 D0017D2C707 7B567FC2875 B4BB266783C D8A58B726F9 AC297201F</p>	BJCA Global Root CA4
<p>CN = BJCA EV SSL CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>614DC72F2D5 C02F77F7E48B ABC27DF5602 02E866</p>	<p>EEF2D3D6D55 03BE2248BC7 15AFD15EB05 C547272</p>	<p>8109F5D475F DD4FE0D82D6 38CFDAF7FB0 6D98CF0EF36 7374FC2D239 C0EDC60FD</p>	BJCA Global Root CA4
<p>CN = BJCA SSL CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>2B72EBA676D 6E9BAC6EDE4 669149C421C 94C5A26</p>	<p>786B502AAE7 FEB8EE06AE83 FC0BED3686C 808FE5</p>	<p>B66617BEA8B 9ED4D202B0C 66585F2F6BF6 CA49420253B 24EA50D0A72 06AA53A1</p>	BJCA Global Root CA4
<p>CN = BJCA EV Code Signing CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>563EA4B9A41 6675F348FC13 CC16DECA8FE F15B80</p>	<p>8BC104AA61E C71D2305404 9987C1F60BF0 7C2F3F</p>	<p>740C7A3532D 3DCB68D9250 4F9A2F22FF22 F0356B43CA4 0C3BD17B7F7 2CB4AD0C</p>	BJCA Global Root CA4

<p>CN = BJCA Code Signing CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>DF761348EB2F08DEF2549B2 4B1D1C9813E01B111D2081 6058D45E9B90B1C1804329 63CFE6888F68A</p>	<p>3E9C87D3B61 06A48B78585 6473C0F69554 CCB99F888EF9 9995A91797F8 4AE6BA</p>	BJCA Global Root CA4
<p>CN = BJCA TimeStamp CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>055D6EBF9058661CEC355A 7E9F2647044A7AAE0A20AD 89B28BDD585CE380678FAF9 4AAA4A3798A69</p>	<p>A7AF1DF1294 C3895AF434A E0F0CFC6CBD DEE76FEDC80 C5AA14289E4 10D6C48BD</p>	BJCA Global Root CA4
<p>CN = BJCA Generic CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>90756CD78B50ED7B0FD27D AFD1CDD9E7388855D85CA3 7DEF9DA971E545F87605BE3 C235DACDF409C</p>	<p>A605330C3FB 5C0EAC3D67E F4D87819280 B8BC11220FD F4659708C64B 45ED4551</p>	BJCA Global Root CA4
<p>CN = BJCA DocSign CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>B481FE5D9E3C59E85D3B56 C11F74A7E2FA92F31062D7 A1FB24C9C59FFAECE5DB05 C99B240E60E229</p>	<p>F339C5073B4F 523350B3BA0 4ACFB099EFE3 229F80DDA80 85D7A30B636 15349C6</p>	BJCA Global Root CA4

附件表B

范围内适用之CP/CPS版本:

名称	版本	发布日期
北京数字认证股份有限公司全球认证体系电子认证业务规则	1.0.9	2024年3月1日
北京数字认证股份有限公司全球认证体系电子认证业务规则	1.0.8	2023年9月13日
北京数字认证股份有限公司全球认证体系电子认证业务规则	1.0.7	2023年8月10日
北京数字认证股份有限公司全球认证体系电子认证业务规则	1.0.6	2022年7月25日
北京数字认证股份有限公司SM2全球信任体系电子认证业务规则	1.0.6	2024年3月1日
北京数字认证股份有限公司SM2全球信任体系电子认证业务规则	1.0.5	2023年2月23日
北京数字认证股份有限公司全球认证体系证书策略	1.0.9	2024年3月1日
北京数字认证股份有限公司全球认证体系证书策略	1.0.8	2023年9月13日
北京数字认证股份有限公司全球认证体系证书策略	1.0.7	2023年8月10日
北京数字认证股份有限公司全球认证体系证书策略	1.0.6	2022年7月25日
北京数字认证股份有限公司SM2全球信任体系证书策略	1.0.6	2024年3月1日
北京数字认证股份有限公司SM2全球信任体系证书策略	1.0.5	2023年2月23日

附件表 C

范围内地点:

地点	功能
中国北京 (北)	数据中心, 管理与支持
中国北京 (南)	数据中心

BJCA 电子认证服务的管理阶层认定报告

(本中文报告仅作参考，正文请参阅英文报告)

北京数字认证股份有限公司 (以下简称 “ BJCA ”) 运营电子认证服务机构 (以下简称 “ CA ” ，附件表 A 列举了服务所包括的根证书和中级证书) ，并提供以下电子认证服务：

- 订户注册
- 证书更新
- 证书密钥更新
- 证书发布
- 证书分发
- 证书吊销
- 证书验证
- 订户密钥和证书管理

BJCA 的管理层负责针对 CA 服务建立并维护有效的控制，包括：CA 业务规则披露、CA 业务规则管理、CA 环境控制、CA 密钥生命周期管理、订户密钥生命周期管理、以及证书生命周期管理。这些控制包括监控机制及为纠正已识别的缺陷所采取的改进措施。

任何控制都有其固有限制，包括人为失误，以及规避或逾越控制的可能性。因此，即使有效的控制也仅能对 BJCA 运营的电子认证服务提供合理保证。此外，由于控制环境的变化，控制的有效性可能随时间而发生变化。

BJCA 管理层已对所提供的电子认证服务的业务规则披露及控制进行评估。基于此评估，BJCA 管理层认为，在 2023 年 3 月 10 日至 2024 年 3 月 9 日就 BJCA 在附件表 C 所列地点提供电子认证服务期间，BJCA 已：

- 在附件表 B 列举的北京数字认证股份有限公司认证体系电子认证业务规则 (CPS) 和北京数字认证股份有限公司认证体系证书策略 (CP) 中披露了电子认证业务、密钥生命周期管理、证书生命周期管理，以及 CA 环境控制管理
- 通过有效控制机制，以提供以下合理保证：
 - BJCA 的 CPS 与 CP 相符；以及

- BJCA 遵循 CP 和 CPS 提供电子认证服务；

- 通过有效控制机制，以提供以下合理保证：
 - 有效维护所管理的密钥与证书在生命周期中的完整性；
 - 建立并保护所管理的订户密钥和订户证书在生命周期中的完整性；以及
 - 于 BJCA 所执行的注册操作恰当地鉴定证书申请者的信息；

- 通过有效控制机制，以提供以下合理保证：
 - 对 CA 系统和数据的逻辑和物理访问仅限于授权的个人；
 - 保持密钥和证书管理操作的连续性；以及
 - CA 系统的开发、维护和操作得到适当的授权和执行，以维持 CA 系统的完整；

以符合 [WebTrust Principles and Criteria for Certification Authorities v2.2.2](#)，包括以下内容：

- **CA 业务规则披露**
 - 电子认证业务规则 (CPS)
 - 证书策略 (CP)

- **CA 业务规则管理**
 - 证书策略管理
 - 电子认证业务规则管理
 - CP 和 CPS 的一致性

- **CA 环境控制**
 - 安全管理
 - 资产分类与管理
 - 人员安全
 - 物理及环境安全
 - 运营管理
 - 系统访问管理
 - 系统开发与维护管理
 - 业务持续性管理
 - 监控与合规管理
 - 审计日志管理

- CA 密钥生命周期管理
 - CA 密钥生成
 - CA 密钥存储、备份和恢复
 - CA 公钥分发
 - CA 密钥使用
 - CA 密钥归档和销毁
 - CA 密钥泄露
 - CA 密码设备生命周期管理

- 订户密钥生命周期管理
 - 订户密钥生成服务
 - 智能芯片卡生命周期管理
 - 订户密钥管理控制要求

- 证书生命周期管理
 - 订户注册
 - 证书更新
 - 证书密钥更新
 - 证书发布
 - 证书分发
 - 证书吊销
 - 证书验证

BJCA 未托管其私钥，亦未提供证书挂起服务。因此，我们的认定报告未延伸至相关标准的有关控制。

总经理 林雪焰
北京数字认证股份有限公司
中国北京市海淀区北四环西路 68 号 1501 号
2024 年 5 月 9 日



附件表 A

本认定报告内包括的密钥与证书列举如下:

Subject DN	Key Type	Signature Algorithm	Key Size	Subject Key Identifier	SHA1 Certificate Thumbprints	SHA256 Certificate Thumbprints	Certificate Signed by
CN = BJCA Global Root CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Root Key	sha256RSA	4096 bits	C5EFEDCCD88 D21C648E4E3 D7142EA7169 3E59801	D5EC8D7B4CB A79F4E7E8CB 9D6BAE77831 003216A	F3896F88FE7C 0A882766A7F A6AD2749FB5 7A7F3E98FB76 9C1FA7B09C2 C44D5AE	BJCA Global Root CA1
CN = BJCA EV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	B8D0A92CC1 D098F5B5E59 AB48344333C 5DC68EBB	6C8C0FE05B0 7DF3EC60248 A44EF5B0786 3D38CB2	115A2A45DB5 20361A2CDF0 A395C4A4BD8 A18902EAA40 36792825F846 BBD76917	BJCA Global Root CA1
CN = BJCA OV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	979E3DDE6F6 661DACF9B48 8980BE268DD D69CD7B	0A22BC3871D 1402BDD48CD B0EA46969F3E 40DCF1	0A6BC3E2024 AC462F5D72B E436AE61D03 3978EA8DDB6 3D4C5D62149 15E69049B	BJCA Global Root CA1
CN = BJCA IV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	DFBC24E9910 BDD34AC2D2 0F394C6EE1B9 B526036	19B542B7B97 422418E28FAE 255F98F9436E AE49B	D70C597009A F3A3A37BDFA BEA0C64108C 7B83CD6C204 2E8FF178A3EE 8FE0CAE8	BJCA Global Root CA1
CN = BJCA DV SSL CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	0DBC8F111BA 0C205422C38 A16A882C993 AF231CF	70B2B43140A 8209FE368647 6E455482E559 1FB30	B408D6C8209 7121694B9B65 48C5B494459 4C081134F36 C5BE88D74FA 34759D91	BJCA Global Root CA1



CN = BJCA TimeStamp CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	234C1318B9C D20E7DF1337 5CB49C609CA 4B1F2BE	64D1D686B88 A70B2784E43F 74172105AB4 053C2A	245B753A631 DD7A5A5B0D 3E6DFECA459 9C7A1C93D71 CBA04ED7BC8 1D3986303F	BJCA Global Root CA1
CN = BJCA Generic CA1 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	BA6DE37E301 FFBEF4147C92 436694D4ED2 709BCF	52FDCAACF3B 8D86CD9A172 0A929D6EAF5 D2FF41F	19D0FE660DB C0FA948CF45 918E48DEFB8 396C4026903 BC19FE4F9155 2DFF4DC9	BJCA Global Root CA1
CN = BJCA Code Signing CA1 G2 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	4096 bits	642C5F6D522 989CC0E6A34 B7EEF782CD5 156927D	73CFC180589F 52980B5265F4 2CE609B472A 16705	9677A7E2ACB 3F5BA75AD9B CEE3C18A4C4 84DAF891B81 7F0AC713923 E4337EA56	BJCA Global Root CA1
CN = BJCA EV Code Signing CA1 G2 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	4096 bits	033DCCDFE44 04249018EE1C EB18310A438 6F8959	9B8D9769786 8141938D1AA 5F189AF6344B B5F118	418D2B75C8B 44B3A20FC93 F55D7006158 CC8C0F1A9C1 A8C5E8C902A ACF36B308	BJCA Global Root CA1
CN = BJCA TimeStamp CA1 G2 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	4096 bits	BB4F167A205 8F9AC81D1A4 0E557AC1D48 8121EBC	BFEFB8E857E5 1A7D53AC4B0 CB230D2507B B9224C	64FF2BFC836 D5980F58605F D80029F499B 805610E10467 B9DCCC0D32 7E0AF561	BJCA Global Root CA1
CN = BJCA Global Root CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN	Root Key	sha384ECDSA	384 bits	D24AB1517F0 6F0D1821F4E6 E5FAB83FC48 D4B091	F42786EB6EB8 6D88316702F BBA66A45300 AA7AA6	574DF6931E2 78039667B720 AFDC1600FC2 7EB66DD3092 979FB7385648 7212882	BJCA Global Root CA2



CN = BJCA EV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256ECDSA	256 bits	279D5CC4300 030533996499 7CFDE6F7A96 EFA787	925377774599 ACA7417523D B15E8A5E5EC 30E6C2	E60147770534 1270FD12006 6BBDF26223E 6953C4DB8FA 7EA197EAF5B F8343B25	BJCA Global Root CA2
CN = BJCA OV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256ECDSA	256 bits	CA1C62CFE81 50616C7FE01B 45C210BEB3B 92E3E8	387EBE6C0015 EA74B9EF4269 4C9EBB617E9 71D61	3A1A4BD6A62 468578DBC91 DC24705B276 A837CC18B6B EF1FF3F6ED0F E6326302	BJCA Global Root CA2
CN = BJCA IV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256ECDSA	256 bits	6B39D730F3D 8570AA47F74 6D8699BF378 212F0E3	07C381DFC16 F3CC389F4628 302E64BAD4 112C33	2F9F41114DC ADC30784E40 FEF7D6EE063 A9BE7A363DE 5737E88FA111 8671505E	BJCA Global Root CA2
CN = BJCA DV SSL CA2 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256ECDSA	256 bits	DE37D665C8F CAF8063B2B9 726B06E75E15 37A25D	BA0866235B8 CA2DAE7E564 95DEB0664BB 67ADDAC	3F5CB1531CB 1223AABFB70 872DC43D2D D6CC3D2823E 96B458A9F8A 7EC0265946	BJCA Global Root CA2
CN = BJCA Global Root CA3 O = BEIJING CERTIFICATE AUTHORITY C = CN	Root Key	sha256RSA	4096 bits	746FBA42408 008EA5D266E 968ADDBF840 583D2DF	3ECFEB8B92CF DCC7F3502E1 1887C065AD4 6BE798	AAA04877335 0488832AABD A6954B33EE2 8BB2773DD85 1AB3C4F6F1D 2F9F3777B	BJCA Global Root CA3
CN = BJCA DocSign CA3 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	2048 bits	C388C0F9798 5D4883F9F99 C5CE541371A 89D5FD0	57ED82AF334 8C76BF136357 5DE45F32E928 72704	20F06D387FB 129121713B4E F93A82A436F D9E615233A3 C444891CDAC B95D5EC7	BJCA Global Root CA3



CN = BJCA TimeStamp CA3 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	sha256RSA	4096 Bits	CC6510A42D4 051CC2592F4 B5603C7387B 357C86B	858802F88DC 692BDA15D81 4ACBA604A56 5B6B3E5	FD225061F3D AECB3A9EA14 9D60AF9AC89 47EF398AA24 33227003170B 7BD48455	BJCA Global Root CA3
CN = BJCA Global Root CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN	Root Key	SM3WithSM2	256 Bits	6F40AC08D2D F5FBAF614A0 CDBD6855AA 890238E7	5860EE6465E8 FD28DD37245 028AA27B99F CD9F64	AA486528A63 D0017D2C707 7B567FC2875 B4BB266783C D8A58B726F9 AC297201F	BJCA Global Root CA4
CN = BJCA EV SSL CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	SM3WithSM2	256 Bits	614DC72F2D5 C02F77F7E48B ABC27DF5602 02E866	EEF2D3D6D55 03BE2248BC7 15AFD15EB05 C547272	8109F5D475F DD4FE0D82D6 38CFDAF7FB0 6D98CF0EF36 7374FC2D239 C0EDC60FD	BJCA Global Root CA4
CN = BJCA SSL CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	SM3WithSM2	256 Bits	2B72EBA676D 6E9BAC6EDE4 669149C421C 94C5A26	786B502AAE7 FEB8EE06AE83 FC0BED3686C 808FE5	B66617BEA8B 9ED4D202B0C 66585F2F6BF6 CA49420253B 24EA50D0A72 06AA53A1	BJCA Global Root CA4
CN = BJCA EV Code Signing CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	SM3WithSM2	256 Bits	563EA4B9A41 6675F348FC13 CC16DECA8FE F15B80	8BC104AA61E C71D2305404 9987C1F60BF0 7C2F3F	740C7A3532D 3DCB68D9250 4F9A2F22FF22 F0356B43CA4 0C3BD17B7F7 2CB4AD0C	BJCA Global Root CA4
CN = BJCA Code Signing CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN	Signing Key	SM3WithSM2	256 Bits	DF761348EB2F 4B1D1C9813E 6058D45E9B9 63CFE6	F08DEF2549B2 01B111D2081 0B1C1804329 888F68A	3E9C87D3B61 06A48B78585 6473C0F69554 CCB99F888EF9 9995A91797F8 4AE6BA	BJCA Global Root CA4



<p>CN = BJCA TimeStamp CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>055D6EBF905 7E9F2647044A 89B28BDD585 4AAA4A</p>	<p>8661CEC355A 7AAE0A20AD CE380678FAF9 3798A69</p>	<p>A7AF1DF1294 C3895AF434A E0F0CFC6CBD DEE76FEDC80 C5AA14289E4 10D6C48BD</p>	BJCA Global Root CA4
<p>CN = BJCA Generic CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>90756CD78B5 AFD1CDD9E73 7DEF9DA971E C235DAC</p>	<p>0ED7B0FD27D 88855D85CA3 545F87605BE3 DF409C</p>	<p>A605330C3FB 5C0EAC3D67E F4D87819280 B8BC11220FD F4659708C64B 45ED4551</p>	BJCA Global Root CA4
<p>CN = BJCA DocSign CA4 O = BEIJING CERTIFICATE AUTHORITY C = CN</p>	Signing Key	SM3WithSM2	256 Bits	<p>B481FE5D9E3 C11F74A7E2F A1FB24C9C59 C99B240</p>	<p>C59E85D3B56 A92F31062D7 FFAECE5DB05 E60E229</p>	<p>F339C5073B4F 523350B3BA0 4ACFB099EFE3 229F80DDA80 85D7A30B636 15349C6</p>	BJCA Global Root CA4

附件表 B

适用范围内的电子认证业务规则 (CPS) 和证书政策 (CP) 版本:

名称	版本	发布日期
北京数字认证股份有限公司全球认证体系电子认证业务规则	1.0.9	2024年3月1日
北京数字认证股份有限公司全球认证体系电子认证业务规则	1.0.8	2023年9月13日
北京数字认证股份有限公司全球认证体系电子认证业务规则	1.0.7	2023年8月10日
北京数字认证股份有限公司全球认证体系电子认证业务规则	1.0.6	2022年7月25日
北京数字认证股份有限公司SM2全球信任体系电子认证业务规则	1.0.6	2024年3月1日
北京数字认证股份有限公司SM2全球信任体系电子认证业务规则	1.0.5	2023年2月23日
北京数字认证股份有限公司全球认证体系证书策略	1.0.9	2024年3月1日
北京数字认证股份有限公司全球认证体系证书策略	1.0.8	2023年9月13日
北京数字认证股份有限公司全球认证体系证书策略	1.0.7	2023年8月10日
北京数字认证股份有限公司全球认证体系证书策略	1.0.6	2022年7月25日
北京数字认证股份有限公司SM2全球信任体系证书策略	1.0.6	2024年3月1日
北京数字认证股份有限公司SM2全球信任体系证书策略	1.0.5	2023年2月23日

附件表 C

范围内地点:

地点	功能
中国北京 (北)	数据中心, 管理与支持
中国北京 (南)	数据中心