

## INDEPENDENT ASSURANCE REPORT

To the management of Global Digital Cybersecurity Authority Co.,Ltd. ("GDCA"):

We have been engaged, in a reasonable assurance engagement, to report on GDCA management's assertion that for its Certification Authority ("CA") operations at Guangzhou and Foshan, China, throughout the period 1 March 2021 to 28 February 2022 for its CAs as enumerated in Appendix A, GDCA has:

- disclosed its SSL certificate life cycle management business practices in its Certification Practice Statement (CPS) and Certificate Policy (CP) as enumerated in Appendix B, including its commitment to provide SSL certificates in conformity with the CA/Browser Forum Requirements on the GDCA website, and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
  - the integrity of keys and SSL certificates it manages is established and protected throughout their lifecycles; and
  - SSL certificate 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
- maintained effective controls to provide reasonable assurance that it meets the Network and Certificate System Security Requirements as set forth by the CA/Browser Forum

in accordance with the [WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.5](#).

GDCA had disclosed an incident (Bug 1738191:CRL validity period exceeds allowed value by one second) on Mozilla's Bugzilla Platform(the Platform) on 28 October 2021. In the incident, GDCA noticed the issue of CRL validity period reported by several CAs on the Platform and found that similar issue existed for its CA operations. The re-issued CRL of the Root CA had been available as a remediation for GDCA operations on 29 October 2021. The analysis and discussions of the matter on the Platform had been closed on 4 November 2021.

### Certification authority's responsibilities

GDCA'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 – SSL Baseline with Network Security v2.5](#).

## 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 GDCA's SSL certificate lifecycle management business practices, including its relevant controls over the issuance, renewal, and revocation of SSL certificates, and obtaining an understanding of GDCA's network and certificate system security to meet the requirements set forth by the CA/Browser Forum;
- (2) selectively testing transactions executed in accordance with disclosed SSL 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 GDCA 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, GDCA'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 1 March 2021 to 28 February 2022, GDCA 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 – SSL Baseline with Network Security v2.5](#).

This report does not include any representation as to the quality of GDCA's services beyond those covered by the [WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.5](#), nor the

# AKAM

2105 Wing On Ctr, 111 Connaught Rd, HK

Anthony KAM  
& associates ltd  
certified public accountants  
爾孝財會計師行有限公司

+852 2246 6888 info@akamcpa.com

suitability of any of GDCA's services for any customer's intended purpose.

## Use of the WebTrust seal

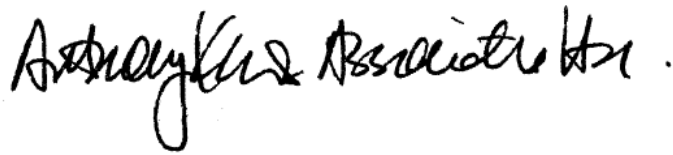
GDCA's use of the WebTrust for Certification Authorities – SSL Baseline with Network Security Seal constitutes a symbolic representation of the contents of this report and it is not intended, nor should it be construed, to update this report or provide any additional assurance.

# AKAM

Anthony Kam & Associates Ltd.

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

16 May 2022



## Appendix A

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

Key Name	Key Type	Signature Algorithm	Key Size	Subject Key Identifier	SHA256 Certificate Thumbprints	Certificate Signed by
CN = GDCA TrustAUTH R5 ROOT O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Root Key	sha256RSA	4096 bits	E2C9409F 4DCEE89A A17CCF0E 3F65C529 886A1951	BFFF8FD0443 3487D6A8AA6 0C1A29767A9 FC2BBB05E42 0F713A13B99 2891D3893	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 EV CodeSigning CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	686223D3 A9DFC522 D155654D 64762589 AAB6D074	882E0146D15 D3483EE5981 E35067F1449 E562B89E22E CC3FDF37274 EDD314CDA	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Extended Validation CodeSigning CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	686223D3 A9DFC522 D155654D 64762589 AAB6D074	BEC06F55344 C3DE4F12CD5 D808906CDE2 75234951BE0 176A787E628 E2BE7D51F	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 CodeSigning CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	49FD9E1A 2D739636 727D5D1E B6E28123 69CF68E4	051C238FAD7 C1DC0FCEB4A EF79CAE97FE 49A82DA8916 A4A0920F307 AACD60F81	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 CodeSigning CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	49FD9E1A 2D739636 727D5D1E B6E28123 69CF68E4	2F2F0088177 10A1085B4E6 BC5E3335474 444D983272E 33995A331BE 1A4C4FE0A	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 OV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	C0F67A5B BE7C08C6 AD04BB48 6145B0F5 6257A0B3	5600AFB6BAE 2A83B66B9CB BE9CEE8F53 E26420A6993 9A48DCC6D56 B99790A63	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 SSL CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	C0F67A5B BE7C08C6 AD04BB48 6145B0F5 6257A0B3	1E96ABB2D65 02B5DCE518E C00B5A1E543 349EFD2E3F6 8BE9ABC1128 B256FEDD7	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 DV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	7313CE83 C60C2AA0 2692AE3F 7B4074B5 300B3595	74468180CE5 64BAD7E8122 10AF743E85C A96CBA44CF5 851FA000823 41B2535F5	GDCA TrustAUTH R5 ROOT

CN = GDCA TrustAUTH R4 IV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	5503AE8E 0735A817 63DBC9D6 1E3E639D DDC617D0	99442C8F83A 3C5090CA50C 1C0B1DE4B32 ED418FF0AA7 C3240E91230 159F3E7BF	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 EV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	1E6AEADE F52FBFA8 D36CC7C6 3FDB6C64 60DCE341	96A5A2CD398 00CFB6A2A83 0EE52DCF47F BB00FF1B032 04DB36915CE A31F13342	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Extended Validation SSL CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	1E6AEADE F52FBFA8 D36CC7C6 3FDB6C64 60DCE341	55324A98325 12FC6C99F15 BFOE9ED3D6B EB4398CCEE1 94B7FF849D9 6D9130D44	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Generic CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	D3FEEE61 80C09990 596DD624 55F2FFC0 EB2717EC	5DB60C2D6B6 BECF3144775 89A3A4FB4CC F84649D69B0 B21B3D6B2AB A78BD35FB	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Generic CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	D3FEEE61 80C09990 596DD624 55F2FFC0 EB2717EC	86C6707BBE2 7CDE1215E25 D3F8146A522 281E18C45DF 2CB8C6FB7A0 3C1733510	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Primer CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	116492AE A041621C 2084B7D3 8881D1CD 8072C77F	3253412FDAD 4523108C098 BB0EE0EFEDD 7FAFDD00FB3 0E47C6BBA9F E3E1CDB88	GDCA TrustAUTH R5 ROOT
CN = 数安时代 R5 根 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Root Key	sha256RSA	4096 bits	827A42A2 BE5C08BB ADF14CA6 EB71B58B 1201F329	71A1A38FF48 5137002DD5C D780B3873DD E146723EE28 080ECF3738C 7C4FEB1AE	数安时代R5 根 CA
CN = 数安时代 R4 EV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	28B9AF46 7654EA51 D4B2810E 540916D2 DEEFF386	FA920C85394 28B3CB4BF77 BE2532BC6D0 DDD97EB664E E8BEA297DAA D147EA76F	数安时代R5 根 CA
CN = 数安时代 R4 OV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	0B630E58 2F1B860F 85B257B2 4A3131C4 A970A19B	203D73A5288 47AAA7B4EA1 6098B048215 B311BFB3E24 AB27DCD7B15 BDF83C1D6	数安时代R5 根 CA

<p>CN = 数安时代 R4 DV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha256RSA	2048 bits	<p>0C2556EA FD7A04DD C2AE6239 09693113 8EBE91D8</p>	<p>E43F7A0BAF9 43180D7D40F ED2E54965BD 674DC2C82EF AB2A5108AA3 D6664A641</p>	数安时代R5 根 CA
<p>CN = 数安时代 R4 IV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha256RSA	2048 bits	<p>FBF66620 D2AA7B2C 10CB52E2 59D40A15 3C11E3F7</p>	<p>13CD63B1F4A 3F41914BD7E A3362DBEE07 5A229138206 861622297BF 643598961</p>	数安时代R5 根 CA
<p>CN = 数安时代 R4 代码签名证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha256RSA	2048 bits	<p>0B1C0C17 23AD9F26 C4928AFC 7F77FD16 27097831</p>	<p>1DDCBC25FC8 E9987B5F425 A2131550D38 329A663DB08 F15BDDDB71F 2BF87E200</p>	数安时代R5 根 CA
<p>CN = 数安时代 R4 普通订户证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha256RSA	2048 bits	<p>5543FAB3 89F57FD5 5AD4FEB1 258451E2 C86ABEF7</p>	<p>18CDC6E98BE 17513D4F12B 72FFB8FA743 7FD18A21352 C2695EB68BB 91D0B1BAD</p>	数安时代R5 根 CA
<p>CN = 数安时代 R4 基础订户证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha256RSA	2048 bits	<p>49EE724E DA99640C E14480ED 731D35FC 8D4243C4</p>	<p>F051A99F563 0D835FAF6F6 D1A50DD92B3 6A127DF3B12 B54317A0763 0FCDB0307</p>	数安时代R5 根CA
<p>CN = GDCA TrustAUTH E5 ROOT O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Root Key	sha384ECDSA	384 bits	<p>C87CB0D4 20A5DB56 97F29730 C88A6189 9FA5F222</p>	<p>EA152FD132D E4F4E71930A 9760517A81D ACBBB5F1014 D8BD7782AC0 CC37E9431</p>	GDCA TrustAUTH E5 ROOT
<p>CN = GDCA TrustAUTH E4 EV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha384ECDSA	256 bits	<p>BCB2E535 26589289 93BC96AC 2344456B 4644C7BF</p>	<p>08646322AE5 1E91C8D61D9 0A2D11F4D3B A6D386A4142 56B66AD5711 6934A9EC3</p>	GDCA TrustAUTH E5 ROOT
<p>CN = GDCA TrustAUTH E4 OV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha384ECDSA	256 bits	<p>55612DF0 62120F01 ECEFF127A 6E5AC45D 0299A22C</p>	<p>AA0E436C044 20376287C9A C94A38B975B 84DF16F0C63 0FF079E750D ADD03453A</p>	GDCA TrustAUTH E5 ROOT
<p>CN = GDCA TrustAUTH E4 DV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha384ECDSA	256 bits	<p>428A21F3 DD52570A 928FC182 C4C615B5 AEC63EFB</p>	<p>1A404FB498F C8D525DEEAC 47299CABA3D 4A716D94AD5 5DFAFCF7B65 76AFA6466</p>	GDCA TrustAUTH E5 ROOT

<p>CN = GDCA TrustAUTH E4 IV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha384ECDSA	256 bits	<p>5BB1FEC6 8A2F902E 21DDCEED DAAAFB25 70F2D067</p>	<p>BA4B5FB3FD5 4BE90EBBAC6 AEBF512D2FC 490B1D6397B C4E779F2ED3 D34D0D721</p>	GDCA TrustAUTH E5 ROOT
<p>CN = GDCA TrustAUTH E4 CodeSigning CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha384ECDSA	256 bits	<p>9F5C6CA8 E4A530A5 7DE31681 2EBFCB1C 16C0D760</p>	<p>E5AB9FA5362 A0F0137C845 41B4F682908 7307329BE3C 05F8BC4A281 1159B7BFF</p>	GDCA TrustAUTH E5 ROOT
<p>CN = GDCA TrustAUTH E4 Generic CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha384ECDSA	256 bits	<p>1D60F596 7C365592 21E343DB C8C862D3 BBC34684</p>	<p>007B5E81298 733CB0FF0EA 8D2FBAE9BC5 54A05EC3957 6E0D0F2EABD A3289E1E1</p>	GDCA TrustAUTH E5 ROOT
<p>CN = GDCA TrustAUTH E4 Primer CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha384ECDSA	256 bits	<p>BD90963A 7CC81C8E 2114AD92 1F8A3023 9A3880F8</p>	<p>760F03A6A7F 99BA47E42DF 456E0E3ED2D 8DF99181157 97396CE83E9 5040AF547</p>	GDCA TrustAUTH E5 ROOT

## Appendix B

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

Name	Version	Release Date
<a href="#">GDCA CPS</a>	5.6	1 November 2021
<a href="#">GDCA CPS</a>	5.5	31 May 2021
<a href="#">GDCA CPS</a>	5.4	5 February 2021
<a href="#">GDCA EV CPS</a>	2.5	1 November 2021
<a href="#">GDCA EV CPS</a>	2.4	31 May 2021
<a href="#">GDCA EV CPS</a>	2.3	1 October 2020
<a href="#">GDCA CP</a>	2.7	1 November 2021
<a href="#">GDCA CP</a>	2.6	31 May 2021
<a href="#">GDCA CP</a>	2.5	5 February 2021
<a href="#">GDCA EV CP</a>	2.4	1 November 2021
<a href="#">GDCA EV CP</a>	2.3	31 May 2021
<a href="#">GDCA EV CP</a>	2.2	1 October 2020





## GDCA MANAGEMENT'S ASSERTION

Global Digital Cybersecurity Authority Co.,Ltd. ("GDCA") operates the Certification Authority ("CA") services known as CAs in Appendix A.

GDCA management has assessed its disclosures of its certificate practices and controls over its CA services. Based on that assessment, in GDCA management's opinion, in providing its CA services at Guangzhou and Foshan, China, throughout the period 1 March 2021 to 28 February 2022, GDCA has:

- disclosed its SSL certificate life cycle management business practices in its Certification Practice Statement (CPS) and Certificate Policy (CP) as enumerated in Appendix B, including its commitment to provide SSL certificates in conformity with the CA/Browser Forum Requirements on the GDCA website, and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
  - the integrity of keys and SSL certificates it manages is established and protected throughout their lifecycles; and
  - SSL certificate 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
- maintained effective controls to provide reasonable assurance that it meets the Network and Certificate System Security Requirements as set forth by the CA/Browser Forum

in accordance with the [WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security – Version 2.5](#).

GDCA 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.

GDCA had disclosed an incident (Bug 1738191:CRL validity period exceeds allowed value by one second) on Mozilla's Bugzilla Platform(the Platform) on 28 October 2021. In the incident, GDCA noticed the issue of CRL validity period reported by several CAs on the Platform and found that similar issue existed for its CA operations. The re-issued CRL of the Root CA had been available as a remediation for GDCA operations on 29 October 2021. The analysis and discussions of the matter on the Platform had been closed on 4 November 2021.



Ms. Liao Zhimin

Deputy General Manager of Global Digital Cybersecurity Authority Co.,Ltd.

Ke Jiao Road, Nanhai Software Technology Park, Shishan Town, Nanhai District, Foshan City, Guangdong Province.

16 May 2022



## Appendix A

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

Key Name	Key Type	Signature Algorithm	Key Size	Subject Key Identifier	SHA256 Certificate Thumbprints	Certificate Signed by
CN = GDCA TrustAUTH R5 ROOT O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Root Key	sha256RSA	4096 bits	E2C9409F 4DCEE89A A17CCF0E 3F65C529 886A1951	BFFF8FD0443 3487D6A8AA6 0C1A29767A9 FC2BBB05E42 0F713A13B99 2891D3893	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 EV CodeSigning CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	686223D3 A9DFC522 D155654D 64762589 AAB6D074	882E0146D15 D3483EE5981 E35067F1449 E562B89E22E CC3FDF37274 EDD314CDA	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Extended Validation CodeSigning CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	686223D3 A9DFC522 D155654D 64762589 AAB6D074	BEC06F55344 C3DE4F12CD5 D808906CDE2 75234951BE0 176A787E628 E2BE7D51F	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 CodeSigning CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	49FD9E1A 2D739636 727D5D1E B6E28123 69CF68E4	051C238FAD7 C1DC0FCEB4A EF79CAE97FE 49A82DA8916 A4A0920F307 AACD60F81	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 CodeSigning CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	49FD9E1A 2D739636 727D5D1E B6E28123 69CF68E4	2F2F0088177 10A1085B4E6 BC5E3335474 444D983272E 33995A331BE 1A4C4FE0A	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 OV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	C0F67A5B BE7C08C6 AD04BB48 6145B0F5 6257A0B3	5600AFB6BAE 2A83B66B9CB BE9CEEC8F53 E26420A6993 9A48DCC6D56 B99790A63	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 SSL CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	C0F67A5B BE7C08C6 AD04BB48 6145B0F5 6257A0B3	1E96ABB2D65 02B5DCE518E C00B5A1E543 349EFD2E3F6 8BE9ABC1128 B256FEDD7	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 DV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	7313CE83 C60C2AA0 2692AE3F 7B4074B5 300B3595	74468180CE5 64BAD7E8122 10AF743E85C A96CBA44CF5 851FA000823 41B2535F5	GDCA TrustAUTH R5 ROOT



CN = GDCA TrustAUTH R4 IV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	5503AE8E 0735A817 63DBC9D6 1E3E639D DDC617D0	99442C8F83A 3C5090CA50C 1C0B1DE4B32 ED418FF0AA7 C3240E91230 159F3E7BF	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 EV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	1E6AEADE F52FBFA8 D36CC7C6 3FDB6C64 60DCE341	96A5A2CD398 00CFB6A2A83 0EE52DCF47F BB00FF1B032 04DB36915CE A31F13342	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Extended Validation SSL CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	1E6AEADE F52FBFA8 D36CC7C6 3FDB6C64 60DCE341	55324A98325 12FC6C99F15 BFOE9ED3D6B EB4398CCEE1 94B7FF849D9 6D9130D44	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Generic CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	D3FEEE61 80C09990 596DD624 55F2FFC0 EB2717EC	5DB60C2D6B6 BECF3144775 89A3A4FB4CC F84649D69B0 B21B3D6B2AB A78BD35FB	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Generic CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	D3FEEE61 80C09990 596DD624 55F2FFC0 EB2717EC	86C6707BBE2 7CDE1215E25 D3F8146A522 281E18C45DF 2CB8C6FB7A0 3C1733510	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Primer CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	116492AE A041621C 2084B7D3 8881D1CD 8072C77F	3253412FDAD 4523108C098 BB0EE0EFEDD 7FAFDD00FB3 0E47C6BBA9F E3E1CDB88	GDCA TrustAUTH R5 ROOT
CN = 数安时代 R5 根 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Root Key	sha256RSA	4096 bits	827A42A2 BE5C08BB ADF14CA6 EB71B58B 1201F329	71A1A38FF48 5137002DD5C D780B3873DD E146723EE28 080ECF3738C 7C4FEB1AE	数安时代R5 根 CA
CN = 数安时代 R4 EV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	28B9AF46 7654EA51 D4B2810E 540916D2 DEEFF386	FA920C85394 28B3CB4BF77 BE2532BC6D0 DDD97EB664E E8BEA297DAA D147EA76F	数安时代R5 根 CA
CN = 数安时代 R4 OV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	0B630E58 2F1B860F 85B257B2 4A3131C4 A970A19B	203D73A5288 47AAA7B4EA1 6098B048215 B311BFB3E24 AB27DCD7B15 BDF83C1D6	数安时代R5 根 CA



CN = 数安时代 R4 DV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	0C2556EA FD7A04DD C2AE6239 09693113 8EBE91D8	E43F7A0BAF9 43180D7D40F ED2E54965BD 674DC2C82EF AB2A5108AA3 D6664A641	数安时代R5 根 CA
CN = 数安时代 R4 IV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	FBF66620 D2AA7B2C 10CB52E2 59D40A15 3C11E3F7	13CD63B1F4A 3F41914BD7E A3362DBE07 5A229138206 861622297BF 643598961	数安时代R5 根 CA
CN = 数安时代 R4 代码签名证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	0B1C0C17 23AD9F26 C4928AFC 7F77FD16 27097831	1DDCBC25FC8 E9987B5F425 A2131550D38 329A663DB08 F15BDDDB71F 2BF87E200	数安时代R5 根 CA
CN = 数安时代 R4 普通订户证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	5543FAB3 89F57FD5 5AD4FEB1 258451E2 C86ABEF7	18CDC6E98BE 17513D4F12B 72FFB8FA743 7FD18A21352 C2695EB68BB 91D0B1BAD	数安时代R5 根 CA
CN = 数安时代 R4 基础订户证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	49EE724E DA99640C E14480ED 731D35FC 8D4243C4	F051A99F563 0D835FAF6F6 D1A50DD92B3 6A127DF3B12 B54317A0763 0FCDB0307	数安时代R5 根CA
CN = GDCA TrustAUTH E5 ROOT O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Root Key	sha384ECDSA	384 bits	C87CB0D4 20A5DB56 97F29730 C88A6189 9FA5F222	EA152FD132D E4F4E71930A 9760517A81D ACBBB5F1014 D8BD7782AC0 CC37E9431	GDCA TrustAUTH E5 ROOT
CN = GDCA TrustAUTH E4 EV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha384ECDSA	256 bits	BCB2E535 26589289 93BC96AC 2344456B 4644C7BF	0864632AE5 1E91C8D61D9 0A2D11F4D3B A6D386A4142 56B66AD5711 6934A9EC3	GDCA TrustAUTH E5 ROOT
CN = GDCA TrustAUTH E4 OV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha384ECDSA	256 bits	55612DF0 62120F01 ECEFF127A 6E5AC45D 0299A22C	AA0E436C044 20376287C9A C94A38B975B 84DF16F0C63 0FF079E750D ADD03453A	GDCA TrustAUTH E5 ROOT



CN = GDCA TrustAUTH E4 DV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha384ECDSA	256 bits	428A21F3 DD52570A 928FC182 C4C615B5 AEC63EFB	1A404FB498F C8D525DEEAC 47299CABA3D 4A716D94AD5 5DFAFCF7B65 76AFA6466	GDCA TrustAUTH E5 ROOT
CN = GDCA TrustAUTH E4 IV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha384ECDSA	256 bits	5BB1FEC6 8A2F902E 21DDCEED DAAAFB25 70F2D067	BA4B5FB3FD5 4BE90EBBAC6 AEBF512D2FC 490B1D6397B C4E779F2ED3 D34D0D721	GDCA TrustAUTH E5 ROOT
CN = GDCA TrustAUTH E4 CodeSigning CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha384ECDSA	256 bits	9F5C6CA8 E4A530A5 7DE31681 2EBFCB1C 16C0D760	E5AB9FA5362 A0F0137C845 41B4F682908 7307329BE3C 05F8BC4A281 1159B7BFF	GDCA TrustAUTH E5 ROOT
CN = GDCA TrustAUTH E4 Generic CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha384ECDSA	256 bits	1D60F596 7C365592 21E343DB C8C862D3 BBC34684	007B5E81298 733CB0FF0EA 8D2FBAE9BC5 54A05EC3957 6E0D0F2EABD A3289E1E1	GDCA TrustAUTH E5 ROOT
CN = GDCA TrustAUTH E4 Primer CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha384ECDSA	256 bits	BD90963A 7CC81C8E 2114AD92 1F8A3023 9A3880F8	760F03A6A7F 99BA47E42DF 456B0E3ED2D 8DF99181157 97396CE83E9 5040AF547	GDCA TrustAUTH E5 ROOT



## Appendix B

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

Name	Version	Release Date
<a href="#">GDCA CPS</a>	5.6	1 November 2021
<a href="#">GDCA CPS</a>	5.5	31 May 2021
<a href="#">GDCA CPS</a>	5.4	5 February 2021
<a href="#">GDCA EV CPS</a>	2.5	1 November 2021
<a href="#">GDCA EV CPS</a>	2.4	31 May 2021
<a href="#">GDCA EV CPS</a>	2.3	1 October 2020
<a href="#">GDCA CP</a>	2.7	1 November 2021
<a href="#">GDCA CP</a>	2.6	31 May 2021
<a href="#">GDCA CP</a>	2.5	5 February 2021
<a href="#">GDCA EV CP</a>	2.4	1 November 2021
<a href="#">GDCA EV CP</a>	2.3	31 May 2021
<a href="#">GDCA EV CP</a>	2.2	1 October 2020

## 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：数安时代科技股份有限公司管理阶层

我们接受委托，对附件一列数安时代科技股份有限公司 ( Global Digital Cybersecurity Authority Co., Ltd. ) 以下简称“GDCA” ) 于 2021 年 3 月 1 日至 2022 年 2 月 28 日期间于中国广州和佛山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，GDCA 已：

- 在附件二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 SSL 证书生命周期业务规则，包括承诺遵循 CA/Browser 论坛的相关指引提供 SSL 证书服务，并依据披露的业务规则提供相关服务
- 通过有效控制机制，以提供以下合理保证：
  - 建立并保护所管理的密钥和 SSL 证书在生命周期中的完整性；以及
  - 于 GDCA 所执行的注册操作恰当地鉴定 SSL 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
- 通过有效控制机制，以提供合理保证确保符合 CA/Browser 论坛 ( CA/Browser Forum ) 发布的网络及证书系统安全规范 ( Network and Certificate System Security Requirements )

以符合 [WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.5](#)。

GDCA 于 2021 年 10 月 28 日曾于 Mozilla Bugzilla 公众平台揭漏事件 [Bug 1738191:CRL validity period exceeds allowed value by one second](#)。于此事件中，GDCA 注意到数家 CA 于 Mozilla Bugzilla 公众平台通报根 CA 证书吊销清单的问题，也存在于自身的 CA 运营中。为修正此一错误，GDCA 于 2021 年 10 月 29



日重新签发根 CA 的证书吊销清单。关于此事件的分析，GDCA 业已于公众平台阐明，此议题的相关讨论于 2021 年 11 月 4 日结束。

## GDCA 的责任

GDCA 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 GDCA 所提供的服务能够符合 [WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.5](#) 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 GDCA 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 GDCA SSL 证书生命周期管理，包括 SSL 证书发放、更新和吊销，并了解 GDCA 的网络和证书系统安全是否符合 CA/Browser 论坛的相应要求；
- (2) 选择测试业务操作是否遵守了所披露的 SSL 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

GDCA 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，GDCA 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，GDCA 于 2021 年 3 月 1 日至 2022 年 2 月 28 日期间的电子认证服务的管理阶层认定在所有重大方面符合 [WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.5](#)。

本报告并不包括任何在 [WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.5](#) 以外的质量标准声明，或对客户对 GDCA 服务的合适性声明。

## 对 Webtrust 标识的使用

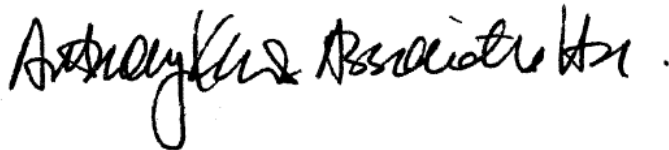
在 GDCA 网站上的 WebTrust SSL BR 电子认证标识是本报告内容的一种符号表示，它并不是为了也不应被认为是对本报告的更新或任何进一步的保证。

# AKAM

Anthony Kam & Associates Ltd.

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

16 May 2022



## 附件一

本认定报告内包括的密钥与证书列举如下:

Key Name	Key Type	Signature Algorithm	Key Size	Subject Key Identifier	SHA256 Certificate Thumbprints	Certificate Signed by
CN = GDCA TrustAUTH R5 ROOT O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Root Key	sha256RSA	4096 bits	E2C9409F 4DCEE89A A17CCF0E 3F65C529 886A1951	BFFF8FD0443 3487D6A8AA6 0C1A29767A9 FC2BBB05E42 0F713A13B99 2891D3893	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 EV CodeSigning CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	686223D3 A9DFC522 D155654D 64762589 AAB6D074	882E0146D15 D3483EE5981 E35067F1449 E562B89E22E CC3FDF37274 EDD314CDA	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Extended Validation CodeSigning CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	686223D3 A9DFC522 D155654D 64762589 AAB6D074	BEC06F55344 C3DE4F12CD5 D808906CDE2 75234951BE0 176A787E628 E2BE7D51F	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 CodeSigning CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	49FD9E1A 2D739636 727D5D1E B6E28123 69CF68E4	051C238FAD7 C1DC0FCEB4A EF79CAE97FE 49A82DA8916 A4A0920F307 AACD60F81	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 CodeSigning CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	49FD9E1A 2D739636 727D5D1E B6E28123 69CF68E4	2F2F0088177 10A1085B4E6 BC5E3335474 444D983272E 33995A331BE 1A4C4FE0A	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 OV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	C0F67A5B BE7C08C6 AD04BB48 6145B0F5 6257A0B3	5600AFB6BAE 2A83B66B9CB BE9CEE8F53 E26420A6993 9A48DCC6D56 B99790A63	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 SSL CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	C0F67A5B BE7C08C6 AD04BB48 6145B0F5 6257A0B3	1E96ABB2D65 02B5DCE518E C00B5A1E543 349EFD2E3F6 8BE9ABC1128 B256FEDD7	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 DV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	7313CE83 C60C2AA0 2692AE3F 7B4074B5 300B3595	74468180CE5 64BAD7E8122 10AF743E85C A96CBA44CF5 851FA000823 41B2535F5	GDCA TrustAUTH R5 ROOT

CN = GDCA TrustAUTH R4 IV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	5503AE8E 0735A817 63DBC9D6 1E3E639D DDC617D0	99442C8F83A 3C5090CA50C 1C0B1DE4B32 ED418FF0AA7 C3240E91230 159F3E7BF	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 EV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	1E6AEADE F52FBFA8 D36CC7C6 3FDB6C64 60DCE341	96A5A2CD398 00CFB6A2A83 0EE52DCF47F BB00FF1B032 04DB36915CE A31F13342	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Extended Validation SSL CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	1E6AEADE F52FBFA8 D36CC7C6 3FDB6C64 60DCE341	55324A98325 12FC6C99F15 BFOE9ED3D6B EB4398CCEE1 94B7FF849D9 6D9130D44	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Generic CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	D3FEEE61 80C09990 596DD624 55F2FFC0 EB2717EC	5DB60C2D6B6 BECF3144775 89A3A4FB4CC F84649D69B0 B21B3D6B2AB A78BD35FB	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Generic CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	D3FEEE61 80C09990 596DD624 55F2FFC0 EB2717EC	86C6707BBE2 7CDE1215E25 D3F8146A522 281E18C45DF 2CB8C6FB7A0 3C1733510	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Primer CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	116492AE A041621C 2084B7D3 8881D1CD 8072C77F	3253412FDAD 4523108C098 BB0EE0EFEDD 7FAFDD00FB3 0E47C6BBA9F E3E1CDB88	GDCA TrustAUTH R5 ROOT
CN = 数安时代 R5 根 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Root Key	sha256RSA	4096 bits	827A42A2 BE5C08BB ADF14CA6 EB71B58B 1201F329	71A1A38FF48 5137002DD5C D780B3873DD E146723EE28 080ECF3738C 7C4FEB1AE	数安时代R5 根 CA
CN = 数安时代 R4 EV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	28B9AF46 7654EA51 D4B2810E 540916D2 DEEFF386	FA920C85394 28B3CB4BF77 BE2532BC6D0 DDD97EB664E E8BEA297DAA D147EA76F	数安时代R5 根 CA
CN = 数安时代 R4 OV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	0B630E58 2F1B860F 85B257B2 4A3131C4 A970A19B	203D73A5288 47AAA7B4EA1 6098B048215 B311BFB3E24 AB27DCD7B15 BDF83C1D6	数安时代R5 根 CA

<p>CN = 数安时代 R4 DV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha256RSA	2048 bits	<p>0C2556EA FD7A04DD C2AE6239 09693113 8EBE91D8</p>	<p>E43F7A0BAF9 43180D7D40F ED2E54965BD 674DC2C82EF AB2A5108AA3 D6664A641</p>	数安时代R5 根 CA
<p>CN = 数安时代 R4 IV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha256RSA	2048 bits	<p>FBF66620 D2AA7B2C 10CB52E2 59D40A15 3C11E3F7</p>	<p>13CD63B1F4A 3F41914BD7E A3362DBEE07 5A229138206 861622297BF 643598961</p>	数安时代R5 根 CA
<p>CN = 数安时代 R4 代码签名证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha256RSA	2048 bits	<p>0B1C0C17 23AD9F26 C4928AFC 7F77FD16 27097831</p>	<p>1DDCBC25FC8 E9987B5F425 A2131550D38 329A663DB08 F15BDDDB71F 2BF87E200</p>	数安时代R5 根 CA
<p>CN = 数安时代 R4 普通订户证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha256RSA	2048 bits	<p>5543FAB3 89F57FD5 5AD4FEB1 258451E2 C86ABEF7</p>	<p>18CDC6E98BE 17513D4F12B 72FFB8FA743 7FD18A21352 C2695EB68BB 91D0B1BAD</p>	数安时代R5 根 CA
<p>CN = 数安时代 R4 基础订户证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha256RSA	2048 bits	<p>49EE724E DA99640C E14480ED 731D35FC 8D4243C4</p>	<p>F051A99F563 0D835FAF6F6 D1A50DD92B3 6A127DF3B12 B54317A0763 0FCDB0307</p>	数安时代R5 根CA
<p>CN = GDCA TrustAUTH E5 ROOT O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Root Key	sha384ECDSA	384 bits	<p>C87CB0D4 20A5DB56 97F29730 C88A6189 9FA5F222</p>	<p>EA152FD132D E4F4E71930A 9760517A81D ACBBB5F1014 D8BD7782AC0 CC37E9431</p>	GDCA TrustAUTH E5 ROOT
<p>CN = GDCA TrustAUTH E4 EV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha384ECDSA	256 bits	<p>BCB2E535 26589289 93BC96AC 2344456B 4644C7BF</p>	<p>08646322AE5 1E91C8D61D9 0A2D11F4D3B A6D386A4142 56B66AD5711 6934A9EC3</p>	GDCA TrustAUTH E5 ROOT
<p>CN = GDCA TrustAUTH E4 OV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha384ECDSA	256 bits	<p>55612DF0 62120F01 ECEFF127A 6E5AC45D 0299A22C</p>	<p>AA0E436C044 20376287C9A C94A38B975B 84DF16F0C63 0FF079E750D ADD03453A</p>	GDCA TrustAUTH E5 ROOT
<p>CN = GDCA TrustAUTH E4 DV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha384ECDSA	256 bits	<p>428A21F3 DD52570A 928FC182 C4C615B5 AEC63EFB</p>	<p>1A404FB498F C8D525DEEAC 47299CABA3D 4A716D94AD5 5DFAFCF7B65 76AFA6466</p>	GDCA TrustAUTH E5 ROOT

<p>CN = GDCA TrustAUTH E4 IV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha384ECDSA	256 bits	<p>5BB1FEC6 8A2F902E 21DDCEED DAAAFB25 70F2D067</p>	<p>BA4B5FB3FD5 4BE90EBBAC6 AEBF512D2FC 490B1D6397B C4E779F2ED3 D34D0D721</p>	GDCA TrustAUTH E5 ROOT
<p>CN = GDCA TrustAUTH E4 CodeSigning CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha384ECDSA	256 bits	<p>9F5C6CA8 E4A530A5 7DE31681 2EBFCB1C 16C0D760</p>	<p>E5AB9FA5362 A0F0137C845 41B4F682908 7307329BE3C 05F8BC4A281 1159B7BFF</p>	GDCA TrustAUTH E5 ROOT
<p>CN = GDCA TrustAUTH E4 Generic CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha384ECDSA	256 bits	<p>1D60F596 7C365592 21E343DB C8C862D3 BBC34684</p>	<p>007B5E81298 733CB0FF0EA 8D2FBAE9BC5 54A05EC3957 6E0D0F2EABD A3289E1E1</p>	GDCA TrustAUTH E5 ROOT
<p>CN = GDCA TrustAUTH E4 Primer CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN</p>	Signing Key	sha384ECDSA	256 bits	<p>BD90963A 7CC81C8E 2114AD92 1F8A3023 9A3880F8</p>	<p>760F03A6A7F 99BA47E42DF 456E0E3ED2D 8DF99181157 97396CE83E9 5040AF547</p>	GDCA TrustAUTH E5 ROOT

## 附件二

范围内适用之CP/CPS版本:

Name	Version	Release Date
<a href="#">GDCA CPS</a>	5.6	1 November 2021
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<a href="#">GDCA EV CPS</a>	2.5	1 November 2021
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<a href="#">GDCA CP</a>	2.7	1 November 2021
<a href="#">GDCA CP</a>	2.6	31 May 2021
<a href="#">GDCA CP</a>	2.5	5 February 2021
<a href="#">GDCA EV CP</a>	2.4	1 November 2021
<a href="#">GDCA EV CP</a>	2.3	31 May 2021
<a href="#">GDCA EV CP</a>	2.2	1 October 2020



## 电子认证服务的管理阶层认定报告

( 本中文报告只作参考，正文请参阅英文报告。 )

数安时代科技股份有限公司 ( Global Digital Cybersecurity Authority Co., Ltd.，以下简称“GDCA” ) 运营电子认证服务机构 ( Certification Authority，以下简称“CA”，附件一表列了CA所包括的根证书和中级证书 )，并提供电子认证服务。

GDCA 管理层已对所提供的CA服务的业务规则披露及控制进行评估。基于此评估，GDCA 管理层认为，在2021年3月1日至2022年2月28日就GDCA在中国广州和佛山所提供CA服务期间，GDCA已：

- 於附件二之CP/CPS披露SSL证书生命周期管理措施，包括承诺遵循 CA/Browser 论坛 ( CA/Browser Forum ) 的相关指引提供SSL证书服务，并依据披露的业务实践提供相关服务
- 通过有效控制机制，以提供以下合理保证：
  - 建立并保护所管理的密钥和订户 SSL 证书在生命周期中的完整性；以及
  - 于 GDCA 所执行的注册操作恰当地鉴定 SSL 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
- 通过有效控制机制，以提供合理保证确保符合 CA/Browser 论坛 ( CA/Browser Forum ) 发布的网络及证书系统安全规范 ( Network and Certificate System Security Requirements )

以符合 [WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security – Version 2.5](#)。

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

GDCA于2021年10月28日曾于Mozilla Bugzilla公众平台揭漏事件[Bug 1738191:CRL validity period exceeds allowed value by one second](#)。于此事件中，GDCA 注意到数家CA于Mozilla Bugzilla公众平台通报根CA证书吊销清单的问题，也存在于自身的CA运营中。为修正此一错误，GDCA于2021年10月29日重新签发根CA的证书吊销清单。关于此事件的分析，GDCA业已于公众平台阐明，此议题的相关讨论于2021年11月4日结束。





**数安时代科技股份有限公司**  
Global Digital Cybersecurity Authority Co., Ltd.



副总经理 廖智敏

数安时代科技股份有限公司

中国广东省 佛山市 南海区 狮山镇 南海软件科技园 科教路

2022年5月16日



**附件一**

本认定报告内包括的密钥与证书列举如下:

Key Name	Key Type	Signature Algorithm	Key Size	Subject Key Identifier	SHA256 Certificate Thumbprints	Certificate Signed by
CN = GDCA TrustAUTH R5 ROOT O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Root Key	sha256RSA	4096 bits	E2C9409F 4DCEE89A A17CCF0E 3F65C529 886A1951	BFFF8FD0443 3487D6A8AA6 0C1A29767A9 FC2BBB05E42 0F713A13B99 2891D3893	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 EV CodeSigning CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	686223D3 A9DFC522 D155654D 64762589 AAB6D074	882E0146D15 D3483EE5981 E35067F1449 E562B89E22E CC3FDF37274 EDD314CDA	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Extended Validation CodeSigning CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	686223D3 A9DFC522 D155654D 64762589 AAB6D074	BEC06F55344 C3DE4F12CD5 D808906CDE2 75234951BE0 176A787E628 E2BE7D51F	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 CodeSigning CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	49FD9E1A 2D739636 727D5D1E B6E28123 69CF68E4	051C238FAD7 C1DC0FCEB4A EF79CAE97FE 49A82DA8916 A4A0920F307 AACD60F81	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 CodeSigning CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	49FD9E1A 2D739636 727D5D1E B6E28123 69CF68E4	2F2F0088177 10A1085B4E6 BC5E3335474 444D983272E 33995A331BE 1A4C4FE0A	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 OV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	C0F67A5B BE7C08C6 AD04BB48 6145B0F5 6257A0B3	5600AFB6BAE 2A83B66B9CB BE9CEE8F53 E26420A6993 9A48DCC6D56 B99790A63	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 SSL CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	C0F67A5B BE7C08C6 AD04BB48 6145B0F5 6257A0B3	1E96ABB2D65 02B5DCE518E C00B5A1E543 349EFD2E3F6 8BE9ABC1128 B256FEDD7	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 DV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	7313CE83 C60C2AA0 2692AE3F 7B4074B5 300B3595	74468180CE5 64BAD7E8122 10AF743E85C A96CBA44CF5 851FA000823 41B2535F5	GDCA TrustAUTH R5 ROOT



CN = GDCA TrustAUTH R4 IV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	5503AE8E 0735A817 63DBC9D6 1E3E639D DDC617D0	99442C8F83A 3C5090CA50C 1C0B1DE4B32 ED418FF0AA7 C3240E91230 159F3E7BF	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 EV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	1E6AEADE F52FBFA8 D36CC7C6 3FDB6C64 60DCE341	96A5A2CD398 00CFB6A2A83 0EE52DCF47F BB00FF1B032 04DB36915CE A31F13342	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Extended Validation SSL CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	1E6AEADE F52FBFA8 D36CC7C6 3FDB6C64 60DCE341	55324A98325 12FC6C99F15 BFOE9ED3D6B EB4398CCEE1 94B7FF849D9 6D9130D44	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Generic CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	D3FEEE61 80C09990 596DD624 55F2FFC0 EB2717EC	5DB60C2D6B6 BECF3144775 89A3A4FB4CC F84649D69B0 B21B3D6B2AB A78BD35FB	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Generic CA O = GUANG DONG CERTIFICATE AUTHORITY CO.,LTD. C = CN	Signing Key	sha256RSA	2048 bits	D3FEEE61 80C09990 596DD624 55F2FFC0 EB2717EC	86C6707BBE2 7CDE1215E25 D3F8146A522 281E18C45DF 2CB8C6FB7A0 3C1733510	GDCA TrustAUTH R5 ROOT
CN = GDCA TrustAUTH R4 Primer CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	116492AE A041621C 2084B7D3 8881D1CD 8072C77F	3253412FDAD 4523108C098 BB0EE0EFEDD 7FAFDD00FB3 0E47C6BBA9F E3E1CDB88	GDCA TrustAUTH R5 ROOT
CN = 数安时代 R5 根 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Root Key	sha256RSA	4096 bits	827A42A2 BE5C08BB ADF14CA6 EB71B58B 1201F329	71A1A38FF48 5137002DD5C D780B3873DD E146723EE28 080ECF3738C 7C4FEB1AE	数安时代R5 根 CA
CN = 数安时代 R4 EV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	28B9AF46 7654EA51 D4B2810E 540916D2 DEEFF386	FA920C85394 28B3CB4BF77 BE2532BC6D0 DDD97EB664E E8BEA297DAA D147EA76F	数安时代R5 根 CA
CN = 数安时代 R4 OV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	0B630E58 2F1B860F 85B257B2 4A3131C4 A970A19B	203D73A5288 47AAA7B4EA1 6098B048215 B311BFB3E24 AB27DCD7B15 BDF83C1D6	数安时代R5 根 CA



CN = 数安时代 R4 DV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	0C2556EA FD7A04DD C2AE6239 09693113 8EBE91D8	E43F7A0BAF9 43180D7D40F ED2E54965BD 674DC2C82EF AB2A5108AA3 D6664A641	数安时代R5 根 CA
CN = 数安时代 R4 IV 服务器证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	FBF66620 D2AA7B2C 10CB52E2 59D40A15 3C11E3F7	13CD63B1F4A 3F41914BD7E A3362DBEE07 5A229138206 861622297BF 643598961	数安时代R5 根 CA
CN = 数安时代 R4 代码签名证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	0B1C0C17 23AD9F26 C4928AFC 7F77FD16 27097831	1DDCBC25FC8 E9987B5F425 A2131550D38 329A663DB08 F15BDDDB71F 2BF87E200	数安时代R5 根 CA
CN = 数安时代 R4 普通订户证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	5543FAB3 89F57FD5 5AD4FEB1 258451E2 C86ABEF7	18CDC6E98BE 17513D4F12B 72FFB8FA743 7FD18A21352 C2695EB68BB 91D0B1BAD	数安时代R5 根 CA
CN = 数安时代 R4 基础订户证书 CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha256RSA	2048 bits	49EE724E DA99640C E14480ED 731D35FC 8D4243C4	F051A99F563 0D835FAF6F6 D1A50DD92B3 6A127DF3B12 B54317A0763 0FCDB0307	数安时代R5 根CA
CN = GDCA TrustAUTH E5 ROOT O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Root Key	sha384ECDSA	384 bits	C87CB0D4 20A5DB56 97F29730 C88A6189 9FA5F222	EA152FD132D E4F4E71930A 9760517A81D ACBBB5F1014 D8BD7782AC0 CC37E9431	GDCA TrustAUTH E5 ROOT
CN = GDCA TrustAUTH E4 EV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha384ECDSA	256 bits	BCB2E535 26589289 93BC96AC 2344456B 4644C7BF	08646322AE5 1E91C8D61D9 0A2D11F4D3B A6D386A4142 56B66AD5711 6934A9EC3	GDCA TrustAUTH E5 ROOT
CN = GDCA TrustAUTH E4 OV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha384ECDSA	256 bits	55612DF0 62120F01 ECEFF127A 6E5AC45D 0299A22C	AA0E436C044 20376287C9A C94A38B975B 84DF16F0C63 0FF079E750D ADD03453A	GDCA TrustAUTH E5 ROOT
CN = GDCA TrustAUTH E4 DV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha384ECDSA	256 bits	428A21F3 DD52570A 928FC182 C4C615B5 AEC63EFB	1A404FB498F C8D525DEEAC 47299CABA3D 4A716D94AD5 5DFAFCF7B65 76AFA6466	GDCA TrustAUTH E5 ROOT



CN = GDCA TrustAUTH E4 IV SSL CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha384ECDSA	256 bits	5BB1FEC6 8A2F902E 21DDCEED DAAAFB25 70F2D067	BA4B5FB3FD5 4BE90EBBAC6 AEBF512D2FC 490B1D6397B C4E779F2ED3 D34D0D721	GDCA TrustAUTH E5 ROOT
CN = GDCA TrustAUTH E4 CodeSigning CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha384ECDSA	256 bits	9F5C6CA8 E4A530A5 7DE31681 2EBFCB1C 16C0D760	E5AB9FA5362 A0F0137C845 41B4F682908 7307329BE3C 05F8BC4A281 1159B7BFF	GDCA TrustAUTH E5 ROOT
CN = GDCA TrustAUTH E4 Generic CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha384ECDSA	256 bits	1D60F596 7C365592 21E343DB C8C862D3 BBC34684	007B5E81298 733CB0FF0EA 8D2FBAE9BC5 54A05EC3957 6E0D0F2EABD A3289E1E1	GDCA TrustAUTH E5 ROOT
CN = GDCA TrustAUTH E4 Primer CA O = Global Digital Cybersecurity Authority Co., Ltd. C = CN	Signing Key	sha384ECDSA	256 bits	BD90963A 7CC81C8E 2114AD92 1F8A3023 9A3880F8	760F03A6A7F 99BA47E42DF 456B0E3ED2D 8DF99181157 97396CE83E9 5040AF547	GDCA TrustAUTH E5 ROOT



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<a href="#">GDCA EV CP</a>	2.2	1 October 2020