

INDEPENDENT ASSURANCE REPORT

To the management of Asseco Data Systems S.A. (ADS):

Scope

We have been engaged, in a reasonable assurance engagement, to report on ADS management's statement that for its Certification Authority (CA) operations in Szczecin, Poland, throughout the period March 05, 2019 to February 10, 2020 for its CAs as enumerated in Attachment A, ADS has:

- ▶ disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in its:
 - [Certification Practice Statement of Certum's Certification Services v6.5](#); and
 - [Certification Policy of Certum's Certification Services v4.4](#)
- ▶ maintained effective controls to provide reasonable assurance that:
 - ADS's Certification Practice Statement is consistent with its Certificate Policy
 - ADS 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;
 - subscriber information is properly authenticated (for the registration activities performed by ADS)
 - subordinate CA certificate requests are accurate, authenticated, and approved
- ▶ maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorized individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity

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

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

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

Certification authority's responsibilities

ADS's management is responsible for its statement, 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.

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 statement 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 statement is fairly stated, and, accordingly, included:

- 1) obtaining an understanding of ADS'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 ADS 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, ADS'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

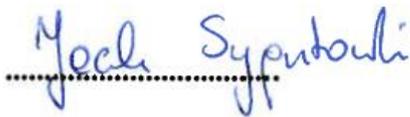
In our opinion, throughout the period March 05, 2019 to February 10, 2020, ADS management's statement, as referred to above, is fairly stated, in all material respects, in accordance with the WebTrust Principles and Criteria for Certification Authorities v2.2.

This report does not include any representation as to the quality of ADS's services beyond those covered by the WebTrust Principles and Criteria for Certification Authorities v2.2, nor the suitability of any of ADS's services for any customer's intended purpose.

Use of the WebTrust seal

ADS'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.

EY, Warsaw, Poland



Jacek Syntowski

May 18, 2020

ASSECO DATA SYSTEMS S.A.'S MANAGEMENT STATEMENT

Asseco Data Systems S.A. (ADS) operates the Certification Authority (CA) services as enumerated in Attachment A, and provides the following CA services:

- Subscriber registration
- Subscriber key generation and management services
- Certificate renewal
- Certificate rekey
- Certificate issuance
- Certificate distribution
- Certificate revocation
- Certificate validation
- Certificate status information processing
- Integrated circuit card life cycle management
- Subordinate CA [cross-]certification

The management of ADS is responsible for establishing and maintaining effective controls over its CA operations, including its CA business practices disclosure on its website https://www.certum.pl/pl/cert_wiedza_repozytorium_pl_en/, CA business practices management, CA environmental controls, CA key lifecycle management controls, subscriber key lifecycle management controls and certificate lifecycle management controls and subordinate CA certificate lifecycle management controls. These controls contain monitoring mechanisms, and actions are taken to correct deficiencies identified.

There are inherent limitations in any controls, including the possibility of human error, and the circumvention or overriding of controls. Accordingly, even effective controls can only provide reasonable assurance with respect to ADS's Certification Authority operations. Furthermore, because of changes in conditions, the effectiveness of controls may vary over time.

ADS management has assessed its disclosures of its certificate practices and controls over its CA services. Based on that assessment, in ADS management's opinion, in providing its Certification Authority (CA) services in Szczecin, Poland, throughout the period March 05, 2019 to February 10, 2020, ADS has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environmental control practices in its:
 - [Certification Practice Statement of Certum's Certification Services v6.5](#) and
 - [Certification Policy of Certum's Certification Services v4.4](#)
- maintained effective controls to provide reasonable assurance that:
 - ADS's Certification Practice Statement is consistent with its Certificate Policy
 - ADS 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;

- subscriber information is properly authenticated (for the registration activities performed by ADS)
- subordinate CA certificate requests are accurate, authenticated, and approved
- maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorised individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA 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](#), 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

Subordinate CA Certificate Lifecycle Management Controls

- Subordinate CA Certificate Lifecycle Management

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

Management of Asseco Data Systems S.A.

Z upoważnienia Zarządu
Asseco Data Systems S.A.

Andrzej Ruciński

Z upoważnienia Zarządu
Asseco Data Systems S.A.

Tomasz Litarowicz

May 18, 2020

Attachment A: List of CAs in Scope

Root CAs

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
1	1	CN = Certum CA O = Unizeto Sp. z. o. o. C = PL	CN = Certum CA O = Unizeto Sp. Z. o. o. C = PL	010020	rsaEncryption	2048 bits	sha1RSA	2002-06-11	2027-06-11	97 36 AC 3B 25 D1 6C 45 A4 54 18 A9 64 57 81 56 48 0A 8C C4 34 54 1D DC 5D D5 92 33 22 98 68 DE	D8E0FEB31DB2E38D00940F37D27D41344D993E734B99D5656D9778D4D8143624	
2	1	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	0444C0	rsaEncryption	2048 bits	sha1RSA	2008-10-22	2029-12-31	AA 26 30 A7 B6 17 B0 4D 0A 29 4B AB 7A 8C AA A5 01 6E 6D BE 60 48 37 A8 3A 85 71 9F AB 66 7E B5	5C58468D55F58E497E743982D2B50010B6D165374ACF83A7D4A32DB768C4408E	
	2	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	CN = Certum CA O = Unizeto Sp. Z. o. o. C = PL	23 e8 29 0d 71 95 04 18 c0 08 59 7e 42 f7 48 1b	rsaEncryption	2048 bits	sha1withRSA	2008-10-22	2025-12-30	AA 26 30 A7 B6 17 B0 4D 0A 29 4B AB 7A 8C AA A5 01 6E 6D BE 60 48 37 A8 3A 85 71 9F AB 66 7E B5	2D87FF20FE8AD2305DFB6F3992867ED2BF4FE3E1346212C4345991AAC02266E9	
	3	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	CN = Certum CA O = Unizeto Sp. Z. o. o. C = PL	93 92 85 40 01 65 71 5F 94 7F 28 8F EF C9 9B 28	rsaEncryption	2048 bits	sha1withRSA	2008-10-22	2027-06-10	AA 26 30 A7 B6 17 B0 4D 0A 29 4B AB 7A 8C AA A5 01 6E 6D BE 60 48 37 A8 3A 85 71 9F AB 66 7E B5	949424DC2CCAAB5E9E80D66E0E3F7DEEB3201C607D4315EF4C6F2D93A917279D	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
3	1	CN = Certum Trusted Network CA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	CN = Certum Trusted Network CA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	21 d6 d0 4a 4f 25 0f c9 32 37 fc aa 5e 12 8d e9	rsaEncryption	4096 bits	sha512RSA	2011-10-06	2046-10-06	6B 3B 57 E9 EC 88 D1 BB 3D 01 63 7F F3 3C 76 98 B3 C9 75 82 55 E9 F0 1E A9 17 8F 3E 7F 3B 2B 52	B676F2EDDAE8775CD36CB0F63CD1D4603961F49E6265BA013A2F0307B6D0B804	
4	1	CN = Certum Elliptic Curve CA OU = Certum Certification Authority O = Asseco Data Systems S.A. C = PL	CN = Certum Elliptic Curve CA OU = Certum Certification Authority O = Asseco Data Systems S.A. C = PL	d2 de 59 3e af 11 20 6e 79 05 e7 41 76 f2 3d b4	id-ec PublicKey	521 bits	sha512 ECDSA	2018-03-16	2043-03-16	5A 9B B2 1B 04 0E 90 D3 30 ED 41 48 F3 48 C8 F3 8F 20 84 E4	7A5FBB25D8F4945FB9BB38AD0A203624CDA78CC89FE2E5A5349437BF4B3E9844	
5	1	CN = Certum Trusted Root CA OU = Certum Certification Authority O = Asseco Data Systems S.A. C = PL	CN = Certum Trusted Root CA OU = Certum Certification Authority O = Asseco Data Systems S.A. C = PL	1e bf 59 50 b8 c9 80 37 4c 06 f7 eb 55 4f b5 ed	rsaEncryption	4096bits	sha512With RSA	2018-03-16	2043-03-16	8C FB 1C 75 BC 02 D3 9F 4E 2E 48 D9 F9 60 54 AA C4 B3 4F FA	FE7696573855773E37A95E7AD4D9CC96C30157C15D31765BA9B15704E1AE78FD	
6	1	CN = Certum EC-384 CA OU = Certum Certification Authority O = Asseco Data Systems S.A. C = PL	CN = Certum EC-384 CA OU = Certum Certification Authority O = Asseco Data Systems S.A. C = PL	78 8f 27 5c 81 12 52 20 a5 04 d0 2d dd ba 73 f4	id-ec PublicKey	384 bits	Sha384 ECDSA	2018-03-26	2043-03-26	8D 06 66 74 24 76 3A F3 89 F7 BC D6 BD 47 7D 2F BC 10 5F 4B	6B328085625318AA50D173C98D8BDA09D57E27413D114CF787A0F5D06C030CF6	

Other CA's

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
1	1	CN = Certum Class I CA SHA2, O = Unizeto Technologies S.A., O = Unizeto Technologies S.A., C = PL	CN = Certum Trusted Network CA, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL,	d1 47 aa 29 b0 42 89 f7 f5 c6 42 47 00 9f d3 39	rsaEncryption	2048 bits	sha1withRSA	2014-09-11	2027-06-09	0E 53 0B DC 82 19 62 62 9B 91 CE 6C 83 F5 65 C2 EE C6 98 B3 A1 4C 7C 65 C2 20 E7 B8 CF 2E 5D CA	2AB4DFF69D75BBF9541060B434CE5AD0C4DACB7AF0DBF21D3616AFCB473796DE	
2	1	CN = Certum Class I CA, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA, OU = Certum Certification Authority, O = Unizeto Technologies S.A., C = PL	17 7d 3b 09 46 1e fb e8 f0 fa a4 d3 5e 2d a7 99	rsaEncryption	2048 bits	sha1withRSA	2009-04-25	2024-04-25	31 B1 7F EB 3C C4 34 98 0D 30 1B 5D 89 5E 91 FF DF 86 67 B9 7A 36 5E 10 8F 01 7E 19 6D FD 62 6B	B3A433B44474FDB0078F113527BBDB76FE5BF81CA24BB86D628136C5016043E8	
3	1	CN = Certum Global Services CA, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum CA O = Unizeto Sp. Z. o. o., C = PL	00 c5 3c 18 bf 8f 3f 9c c7 73 06 a9 c6 a1 3e 84 e7	rsaEncryption	2048 bits	sha1withRSA	2009-03-03	2024-03-03	B4 D3 16 33 D8 3B 31 05 CD 26 91 5F 7C 0E 6B F8 A0 E3 89 59 A6 5E B6 D8 3D D4 2F 56 D3 91 A4 8E	2E481FF3A53D293BD49F3CD83976583682B3BD79A160FD6E9CA58725D93B945B	
4	1	CN = Certum Global Services CA SHA2, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA, OU = Certum Certification Authority, O = Unizeto Technologies S.A., C = PL	00 d0 4b 6f e5 dd 5b d2 21 e7 c7 4c f6 46 8b 31 46	rsaEncryption	2048 bits	SHA256with RSA	2014-09-11	2027-06-09	33 B6 83 FC 79 A0 CB 80 85 F2 C4 DD 76 BE 6C A3 53 19 58 40 6E 35 F2 C8 74 67 B5 8E FC B4 5F A1	9E852C59DFC6FD6ABD4E17EA80B5F4E56FC04192D107258D54DA8A92528670D6	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
5	1	CN = Certum Level I CA, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum CA O = Unizeto Sp. Z. o. o. C = PL	0d e2 1c 3c a7 14 fe 4b 0a 64 ac 46 9b 1a ac cc	rsaEncryption	2048 bits	sha1withRSA	2009-03-03	2024-03-03	75 48 E5 68 CD 2A 00 D1 BE 9C 95 83 B7 AA C0 07 32 C8 0F 84 97 7E 94 39 7F 3A AF 17 C0 7B F8 F7	55BB45D85F2157403DB9BAA033ED2CAD7EC9A0C490CC4C5CA8C5399E6EACB7D0	
6	1	CN = Certum Level II CA, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum CA O = Unizeto Sp. Z. o. o. C = PL	77 0a c6 c2 ba 51 a4 1c 1d 5d 2f 99 b2 6b 0c 1a	rsaEncryption	2048 bits	sha1withRSA	2009-03-03	2024-03-03	40 5C 2D C2 93 3A C5 AD 5D 55 23 84 4F 3E 59 44 08 04 DF 72 0F B0 47 60 AB 9F B8 21 B6 21 DA 25	FE716FF3996CD6561B6B63A8C440DF5489CF48F7834283EEBD19B380F3FBC22	
7	1	CN = Certum Level III CA, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum CA O = Unizeto Sp. Z. o. o. C = PL	64 fe 29 dc cf 38 e0 30 dc ff e3 4d 05 68 96 61	rsaEncryption	2048 bits	sha1withRSA	2009-03-03	2024-03-03	0D 3E FB 8F 11 24 06 F0 DD 5A 42 C6 CE 47 F9 63 5F D5 80 E1 4E CD 57 5A 27 DB A4 40 EC 24 3F C4	DE8A6FD403447319FB31B471A9468A00A87DEDC062E6970D770A51603832688C	
8	1	CN = Certum Level IV CA, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum CA O = Unizeto Sp. Z. o. o. C = PL	4c a5 fe c6 61 7c 48 b0 56 38 2a 82 80 e0 50 8c	rsaEncryption	2048 bits	sha1withRSA	2009-03-03	2024-03-03	F8 1D 03 82 62 81 E6 15 84 B8 78 9B D3 49 B6 8E F0 89 58 19 4E 60 8D 0D 19 33 26 56 36 95 AC 90	14239787E8FEC7DFFA5F4C570B721B96C169ACCA3F4E95BC3057A3F8A60D7EEF	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
9	1	CN = Certum Level I CA, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA, OU = Certum Certification Authority, O = Unizeto Technologies S.A., C = PL	17 7d 3b 09 46 1e fb e8 f0 fa a4 d3 5e 2d a7 99	rsaEncryption	2048 bits	sha1withRSA	2009-04-25	2024-04-25	31 B1 7F EB 3C C4 34 98 0D 30 1B 5D 89 5E 91 FF DF 86 67 B9 7A 36 5E 10 8F 01 7E 19 6D FD 62 6B	B34A33B44474FDB0078F113527BBD876FE5BF81CA24BB86D628136C5016043E8	
10	1	CN = Certum Extended Validation CA, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA, OU = Certum Certification Authority, O = Unizeto Technologies S.A., C = PL	7f 51 0c 05 cf b3 9d 04 ff f3 06 ba 2c 56 e8 27	rsaEncryption	2048 bits	sha1withRSA	2009-12-03	2024-12-03	33 D8 DF BD 44 CE 11 7A 9A 91 C0 A5 35 98 74 C4 80 96 73 5D AA B8 2A 51 F5 1F 25 E3 51 5E B6 92	CF1EA15DC9C05ABC72AF0E62C48D93434AE0271B1AA4318BE3544126D24B6184	
11	1	CN = Certum Code Signing CA, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA, OU = Certum Certification Authority, O = Unizeto Technologies S.A., C = PL	fa 33 b7 9d d4 96 cf d1 0c 84 65 39 a4 9d 63 b5	rsaEncryption	2048 bits	sha1withRSA	2011-09-20	2026-09-20	1B EF 39 90 DA 51 B4 10 10 A6 9C 3F 47 B3 26 F5 28 77 FA 10 B9 F0 58 56 31 9A E1 27 AF BF 24 10	0E8CC50D64DF43D35971DEC320B4BA226B0DC844380EB4B2BB7F845B12A3B48A	
12	1	CN = Certum Code Signing CA, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA 2, OU = Certum Certification Authority, O = Unizeto Technologies S.A., C = PL	7f 46 f0 04 f1 a5 30 48 6a a6 b8 b9 5e 94 67 48	rsaEncryption	2048 bits	sha1withRSA	2013-01-24	2028-01-24	8C 8F 2A CF 39 8E 86 DC DE 80 B4 D0 CB 3D 5B 90 B2 0D DD C4 C8 5D 78 B4 11 27 9A 41 BB 7A 7C 31	1B82F666CEDC5D302B0A8F1CCE498CEECD730208A2337DC7664FEAC3DD2D0F92	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
13	1	CN = GIS CA, O = GAZINFORMSERVICE Company limited, OU = CA, C = RU	CN = Certum Global Services CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	3c 3f d8 33 a1 9f e6 df f7 22 63 8b 81 cd af 1d	rsaEncryption	2048 bits	sha1withRSA	2012-06-14	2022-06-14	BC A9 05 3C 9A 0A F8 1A ED E2 7A 5A A2 1C 80 8F 18 90 F2 02 EF 09 07 2B 47 A5 2E 22 EA 50 92 BE	7CFA94F9E59A3E447C5FC719CC4349EE81EF001B35CD3D1AF4AE9512F5A1B7F9	
14	1	CN = GIS CA, O = GAZINFORMSERVICE Company limited, OU = CA, C = RU	CN = Certum Global Services CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	3d 77 a3 5b 76 b0 29 31 bc 30 0d 96 9f 61 61 b6	rsaEncryption	2048 bits	SHA256withRSA	2014-09-30	2024-09-27	06 6C A1 8F AD 76 FB 0A 28 70 64 69 1E 77 35 F6 BD DD C4 BF 12 CF 7A 86 E0 B0 C8 AF A5 41 DE 16	2E816BCF852D830245DDC3534BCF85A53B0B19991A525CD328626FD74A40FC82	
15	1	CN = Certum Digital Identification CA SHA2, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	66 da ef 03 db 84 61 91 6b 25 ba 83 fb 17 4e 13	rsaEncryption	2048 bits	sha1withRSA	2015-04-21	2027-06-09	41 D7 2A 22 FD 8E 3C DB 03 EF 9C 37 D9 DF 6D 30 3C 9A 8B 6F 82 97 34 91 B7 FE 3D 8B 45 98 C1 B5	0F672D92A0B06CEE948F03B272502602C6E37D2A2AD694A31D5DE313196E9282	
16	1	CN = Shoper® SSL O = Dreamcommerce S.A., OU = Dreamcommerce S.A., C = PL	CN = Certum Global Services CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	ff 86 46 00 be 58 6f 4e 01 aa bf e8 64 1d 00 cd	rsaEncryption	2048 bits	sha1withRSA	2012-06-15	2022-06-13	26 0B 7B A2 02 AD 4E BD F8 5B F1 FC 0F A7 AE 95 B9 DA CB 2A 17 75 CC 7E 2D B5 D6 1C 5F 76 78 F7	9BAA73028F3F1F6D38A37BEC6DF57616B6EF3ED1AFD0B995E8BBB21127565AB4	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
17	1	CN = nazwaSSL, O = NetArt Spółka Akcyjna S.K.A., OU = http://nazwa.pl, C = PL	CN = Certum Global Services CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	43 55 07 aa 1c 57 3d 95 c0 e5 0c 44 a4 e6 da cf	rsaEncryption	2048 bits	sha1withRSA	2012-07-06	2022-07-04	96 FA 82 37 FD 51 03 BF FF 53 76 36 24 A3 38 B3 CF 04 13 25 53 36 F4 CB 6F F9 10 04 E1 96 E2 B1	E65D90DA756BCA30EE77007B3BF55A7B27A1BDFECC9AD6102A42E852EADD5B92	
	2	CN = nazwaSSL, O = nazwa.pl S.A., OU = http://nazwa.pl, C = PL	CN = Certum Global Services CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	1a d7 1f b5 bb 5a 1d 59 5d 49 75 f4 f3 d4 2c d2	rsaEncryption	2048 bits	sha1withRSA	2014-05-06	2022-07-04	96 FA 82 37 FD 51 03 BF FF 53 76 36 24 A3 38 B3 CF 04 13 25 53 36 F4 CB 6F F9 10 04 E1 96 E2 B1	E386DFBDACBF7EC1078C26456486D7B5159438928A3237BC1DCA7F975D2A514B	
18	1	CN = Certum Extended Validation CA, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	f1 87 34 d4 83 95 86 2a 0c 3a f6 e4 b9 27 38 1a	rsaEncryption	4096 bits	sha1withRSA	2013-01-24	2028-01-24	AF 19 83 48 86 EE 88 D4 BC 7F 39 07 AE AC 1B E6 03 3C 7C 65 D8 5D 8E C4 82 AE 5F 2D 8C 84 9F 8B	7816C7B0566B46783B1C15D8A28D8B0D20CFEB20B3D13F79446E15C4A51C91DF	
19	1	CN = Certum Class I CA, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	b4 7d e8 0b 87 45 85 5c 6e 9c 4e 6b b1 89 ab b4	rsaEncryption	4096 bits	sha1withRSA	2013-01-24	2028-01-24	5A BE EC D5 E7 9E D6 6D 09 4B FE AD 76 BE 58 BB FA C9 3A 9A AC 8E C6 FC 21 E3 5C 86 64 A3 90 BE	337AC56F39FB8877B9F0524554B755D1835A807FFC9058DFC6DE1B707F696123	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
20	1	CN = Certum Code Signing CA, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA2, OU = Certum Certification Authority, O = Unizeto Technologies S.A., C = PL	7f 46 f0 04 f1 a5 30 48 6a a6 b8 b9 5e 94 67 48	rsaEncryption	4096 bits	sha1withRSA	2013-01-24	2028-01-24	8C 8F 2A CF 39 8E 86 DC DE 80 B4 D0 CB 3D 5B 90 B2 0D DD C4 C8 5D 78 B4 11 27 9A 41 BB 7A 7C 31	1B82F666CEDC5D302B0A8F1CCE498CEECD730208A2337DC7664FEAC3DD2D0F92	
21	1	CN = SpaceSSL CA, O = Unizeto Technologies S.A., OU = SpaceSSL Certification Authority, C = PL	CN = Certum Global Services CA, OU = Certum Certification Authority, O = Unizeto Technologies S.A., C = PL	25 39 66 1f 53 7d 7b 5c ea 2c 99 9d b6 3c 08 3e	rsaEncryption	2048 bits	sha1withRSA	2014-04-16	2024-03-02	46 7D F2 EE FF 6D 1A 02 D0 81 E5 D1 CF 89 3B D4 8D 1B C0 3A 6D 60 2B DB DB B3 F4 97 6B 88 99 82	3A29828F3DDCA85FBD18628A052476431360AD67E89420282771C1236207D43C	
22	1	CN = Certum Class I CA SHA2, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA, OU = Certum Certification Authority, O = Unizeto Technologies S.A., C = PL	d1 47 aa 29 b0 42 89 f7 f5 c6 42 47 00 9f d3 39	rsaEncryption	2048 bits	SHA256with RSA	2014-09-11	2027-06-09	0E 53 0B DC 82 19 62 62 9B 91 CE 6C 83 F5 65 C2 EE C6 98 B3 A1 4C 7C 65 C2 20 E7 B8 CF 2E 5D CA	2AB4DFF69D75BBF9541060B434CE5AD0C4DACB7AF0DBF21D3616AFCB473796DE	
23	1	CN = Certum Trusted Network CA SHA 2, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA, OU = Certum Certification Authority, O = Unizeto Technologies S.A., C = PL	26 dd d2 2b 46 c9 c4 4d 5a 69 4d 39 80 7e 72 ad	rsaEncryption	2048 bits	SHA256with RSA	2014-09-11	2027-06-09	4B 80 1B 24 D1 AF C9 2E 7B 9F 32 70 BF CB 0F 31 43 0B F1 51 D2 A8 7D 6F 6E 20 5F B5 D3 DC 12 B2	129FB5DE501E24041CD14A81075FD1CDE257408D4A353E636912E38BDDA2D3FB	

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24	1	CN = Certum Domain Validation CA SHA2, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	26 dd d2 2b 46 c9 c4 4d 5a 69 4d 39 80 7e 72 ad	rsaEncryption	2048 bits	SHA256with RSA	2014-09-11	2027-06-09	4B 80 1B 24 D1 AF C9 2E 7B 9F 32 70 BF CB 0F 31 43 0B F1 51 D2 A8 7D 6F 6E 20 5F B5 D3 DC 12 B2	129FB5DE501E24041CD14A81075FD1CDE257408D4A353E636912E38BDDA2D3FB	
25	1	CN = Certum Organization Validation CA SHA2, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	b5 ad 0f 63 85 4c c4 62 2e 4b 39 23 b2 90 02 16	rsaEncryption	2048 bits	SHA256with RSA	2014-09-11	2027-06-09	E7 51 AF 78 A3 6B A4 98 ED 1A 95 D8 E5 00 F1 D3 7B 37 61 34 30 69 08 9C E9 D5 81 AA 8D F3 5F AB	FD02362244F31266CAFF005818D1004EC4EB08FB239AAFAAAFF74797D6005D6	
26	1	CN = Certum Extended Validation CA SHA2, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	00 c5 a2 d3 16 eb 4d 19 3c 17 a9 0a a3 8a 29 6e 54	rsaEncryption	2048 bits	SHA256with RSA	2014-09-11	2027-06-09	1D 82 D7 F1 FA 97 11 B3 77 36 7E FE E6 40 C2 6A 06 DB CD 99 D2 A1 7B 0F FA B0 31 6D 92 78 8A C3	6C47D365C13BC8CC3D6DEF5D8F07AB8DBEA3C8D4945D651AA9854A9C9A3CC71C	
27	1	CN = nazwaSSL, O = nazwa.pl S.A., OU = http://nazwa.pl, C = PL	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	52 8a 14 cd a9 1a 4b 45 a5 63 7c 03 64 7f 42 c1	rsaEncryption	2048 bits	SHA256with RSA	2014-09-30	2024-09-27	B0 F8 69 24 C3 97 D7 F4 04 22 33 0D FE 72 F2 F9 88 A8 C6 43 B4 A4 11 92 2B B7 3E 32 3F 70 C9 BC	749CC529CDAAB9AE2858147C4B001AE1D5BE058FC165C3E74AF9704131C5E1C1	

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28	1	CN = Shoper® SSL O = Dreamcommerce S.A., OU = 2Dreamcommerce S.A., C = PL	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	4e 4f 65 e0 1f 6b 73 5a fe 9c 07 2c 60 7c 4a bf	rsaEncryption	2048 bits	SHA256with RSA	2014-09-30	2024-09-27	BB 6A B3 46 B0 1D 98 DA FE 31 EC AC BA 98 BD C7 B5 0D 31 A2 D8 67 3B 93 E0 E4 D3 86 7F FA C4 5E	277CF4B65F530FCC07285EF89D8311884884004E4F2C7DBE7CA006E96536CD62	
29	1	CN = SpaceSSL CA, O = Unizeto Technologies S.A., OU = SpaceSSL Certification Authority, C = PL	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	3d 5d ff f1 eb 31 44 fc 80 8c fa 46 bf 8c c1 7b	rsaEncryption	2048 bits	SHA256with RSA	2014-09-30	2024-09-27	00 E5 F2 E9 07 85 45 7A F7 2D ED A3 CB D5 54 1D 57 34 4D 8E 8D A1 F0 D0 B1 E1 50 71 A0 D1 96 8C	65DE322A1EF7AFFEDED7387138C26060825B08CC27E1992DD9EAC8337297957B	
30	1	CN = Yandex CA, O = Yandex LLC, OU = Yandex Certification Authority, C = RU	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	e4 05 47 83 0e 0c 64 52 97 6f 7a 35 49 c0 dd 48	rsaEncryption	2048 bits	SHA256with RSA	2015-01-21	2025-01-18	2C D1 5E FB 27 38 FC D6 5B 25 5C A7 A7 10 1E 01 DF 9B AD 4D C4 3F 01 9B B7 01 7A 55 E5 23 23 F6	C333B61638B0315FA801CCE21CC4EA96EF7F65A3999450186A99D19BB20128F7	
31	1	CN = www.lh.pl, O = LH.pl Sp. z o.o., OU = LH.pl, C = PL	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	0a 21 d8 0a f7 94 ed 90 46 81 6a 3c 5d b3 dd 33	rsaEncryption	2048 bits	SHA256with RSA	2015-01-28	2025-01-25	48 F7 E5 25 33 DF 6D 18 3A 35 66 24 C6 B3 9A A9 61 63 91 4C FA 77 A7 F1 7B C3 CE 72 D3 F2 10 5A	59A3456E750E325FCB1359DC29E828189B4982C119C64FACFD6728711B30532F	

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32	1	CN = Certum Digital Identification CA SHA2, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	66 da ef 03 db 84 61 91 6b 25 ba 83 fb 17 4e 13	rsaEncryption	2048 bits	SHA256with RSA	2015-04-21	2027-06-09	41 D7 2A 22 FD 8E 3C DB 03 EF 9C 37 D9 DF 6D 30 3C 9A 8B 6F 82 97 34 91 B7 FE 3D 8B 45 98 C1 B5	0F672D92A0B06CEE948F03B272502602C6E37D2A2AD694A31D5DE313196E9282	
33	1	CN = nazwaSSL, O = nazwa.pl sp. z o.o., OU = http://nazwa.pl, C = PL	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	60 6c 62 dc 97 d1 a0 39 2e e9 cb 12 b2 1d 6d d9	rsaEncryption	2048 bits	SHA256with RSA	2015-12-31	2025-12-28	01 6E 94 F2 A3 EA 93 5D 78 AD F9 76 B0 08 62 12 29 B6 3D FD 26 AB F4 5B FC 17 96 4A 55 40 88 FE	A69C59966EBBCDFEC7F4FF0288C86FF60356FA7860208B93B43A095B0600CC1E	
34	1	CN = Certum Code Signing CA SHA2, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	6b 32 6a 0f 03 28 d3 7a 1d 53 0b fd 23 bd 48 e2	rsaEncryption	2048 bits	SHA256with RSA	2015-10-29	2027-06-09	9F C9 32 1A E2 66 00 F7 7F 3B 1D 9E A5 4D 6F 36 B5 4E 4E 9E 65 C2 BE 32 E5 70 61 E3 4D 4A 90 4B	06E5BAF59E3DA805CE9F286DF1BAEA93D2BD671F6D73728A25EB6AC697F204C1	
35	1	CN = Certum Extended Validation Code Signing CA SHA2 O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	4e 96 c1 ba 06 25 8a 0c 2a ba 27 62 5e 90 64 d3	rsaEncryption	2048 bits	SHA256with RSA	2015-10-29	2027-01-19	2A 61 62 E4 4D FC 38 08 BD 88 8B 7B E2 37 2D EE 22 47 43 40 12 6E 33 8E C1 D2 B9 EC E1 43 BB C5	176AAE8BDD5DD06A7DBD42862DC173BD838FFE3013103B097B9671C37BA6AE14	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
36	1	CN = Certyfikat SSL O = home.pl S.A., C = PL	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	31 1d 7e dd e4 92 02 08 bb d8 5e f7 26 2b ba	rsaEncryption	2048 bits	SHA256with RSA	2016-06-08	2026-06-06	E4 F2 78 8C 1D 6C 8C 9E 64 C7 76 B4 0E CD A7 A0 93 DC D3 B6 4E 6F FC B5 BD 1D 6D 37 5B 79 16 C4	A95F23B52AF10895886FB65323D29A9876EA7D396F805E4CA280D561C26E3DAD	
37	1	CN = WoSign OV SSL CA, O = WoSign CA Limited, C = CN	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	ef 05 1a 74 1a 1d 94 09 fc a5 e4 64 0f 8d 3c 9b	rsaEncryption	2048 bits	SHA256with RSA	2016-11-09	2026-11-09	31 92 83 D9 CE B4 14 71 01 A2 3F AE 64 D9 5E 83 29 48 1A F0 9A 7E ED 2D 05 9D 9E 50 76 A8 D3 ED	C7F546F0C76C9A0DA9992E9884E6248B7CA2BB6ADE838BD7A03A8C41EE2A3064	
38	1	CN = WoSign Code Signing CA, O = WoSign CA Limited, C = CN	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	17 ef 72 b4 15 7d 6f 4b 68 e4 bd d5 75 e5 cc ae	rsaEncryption	2048 bits	SHA256with RSA	2016-11-09	2026-11-09	15 94 B4 17 FF C9 EC 51 F3 A4 DA AF DB 67 E1 4D 96 75 9E CF 25 8A FA 84 6A 20 7D 35 FB 5D 8A 85	7B0BC3563D43309118F560A6C99A221C35399B10293F73BE41A12ACA0338075F	
39	1	CN = WoSign EV SSL CA, O = WoSign CA Limited, C = CN	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	52 0a 3a 46 9d 14 6b 20 29 7a fd 01 5e 64 ab f5	rsaEncryption	2048 bits	SHA256with RSA	2016-11-10	2026-11-10	91 4B 1A A8 41 5C 44 D6 1E 2C C0 DA 29 24 FC DA 30 8A D9 F3 F6 43 34 83 45 4C 8D F7 68 A2 72 FC	C0AB07D9071A4CC1D34409178F8BCA058310A8B111DDCFA655658760226F50F9	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
40	1	CN = 4fastssl.com , O = 3S2N Sp. z o.o., OU = 3S2N Sp. z o.o., C = PL	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	7c 08 76 ae 51 f5 2f 12 7a 95 32 47 b4 83 4b 62	rsaEncryption	2048 bits	SHA256with RSA	2017-04-18	2027-04-16	B0 DE D8 BF 4A 93 CA 35 BE 04 94 DF 93 37 55 BD 8C 5D D4 4C 54 17 09 77 72 FC 1B 2F 3B 64 E4 57	31AC346B31073DC0D134E29FC212CC4A15ED3530EEA1EDCFC8DACB36492D5DE4	
41	1	CN = WoSign DV SSL CA, O = WoSign CA Limited, C = CN	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	e2 1a 21 1a a8 91 e2 d3 54 59 ff d3 6d 27 c4 26	rsaEncryption	2048 bits	SHA256with RSA	2017-05-18	2027-05-18	1B F5 7E E0 06 08 F5 70 24 36 37 64 E1 26 6A 2E B5 A4 CA 57 D9 6E 03 C6 D5 2E 1C 36 70 14 D4 5E	0330286DF3612C0E968DCD518A7A316D5E0790D1CA324B906B0EF017C0BE3EA7	
42	1	CN = TrustAsia DV SSL CA - C3, O = TrustAsia Technologies Inc., C = CN	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	f1 5c c0 9c 2d cc 61 02 08 b8 0e a3 05 72 43 a9	rsaEncryption	2048 bits	SHA256with RSA	2017-10-23	2027-05-14	91 90 F5 AC 08 72 75 47 18 C7 F8 87 8B 04 3E C6 C8 7D DA 27 5C E4 2A F2 BE CE 3E D8 C7 90 9E 99	C25F1E96000BC36E2AA5CD54BF24F48B76890A162E1AD8E104992650510626C2	
43	1	CN = TrustAsia OV SSL CA - C3, O = TrustAsia Technologies Inc., C = CN	CN = Certum Global Services CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	30 9e 97 b6 cc d8 67 28 42 fa 20 59 59 29 20 a8	rsaEncryption	2048 bits	SHA256with RSA	2017-10-23	2027-05-14	84 46 51 6F 46 81 7F 28 7F D7 2A 22 EC 82 36 9B 44 D0 FC 90 A4 26 05 B0 7C B6 67 8B B9 59 50 76	7A142B1A5E16215183A13E840A862A437E293D9366921DB07EDB54F138AC0D78	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
44	1	CN = TrustAsia EV SSL CA - C3, O = TrustAsia Technologies Inc., C = CN	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	17 86 66 a8 55 4a cc bf e7 34 57 e6 45 1a 68 6c	rsaEncryption	2048 bits	SHA256with RSA	2017-10-23	2027-05-14	DF 3B E1 AF D1 4B A3 1F FA 1C AF 82 2E F4 7F C0 4E 17 29 08 ED A8 3B F3 34 FC 52 AF 43 3C 8D E6	BC0878CBB4E0DAF7A9DA464AB16262A235BFDAED33B9F9569BA18FF34997580	
45	1	CN = TrustOcean Certification Authority, O = QiaoKr Corporation Limited, C = CN	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	15 09 b3 b3 52 d6 68 9b 5a 72 72 f3 72 e7 e0 28	rsaEncryption	2048 bits	SHA256with RSA	2017-10-23	2027-05-14	02 A9 F1 95 51 87 72 E1 32 C0 17 50 C6 77 0E A0 C0 5D DB 0F A2 74 D9 5F A0 31 27 4E 01 31 E5 2E	A416A2BA490C454E23B85BF087DB7B137F4F47D9747E60F8692FF4C8DF0E062B	
46	1	CN = GDCA TrustAUTH R4 DV SSL CA G2, O = "Global Digital Cybersecurity Authority Co., Ltd.", C = CN	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	9e 9c b6 94 26 c4 5c c4 30 6d 3e 1c c2 a7 9e fc	rsaEncryption	2048 bits	SHA256with RSA	2018-01-26	2027-05-20	71 FB 10 8F AF 19 90 8C 9B 93 58 17 EA 18 B3 59 A7 28 13 B8 6F A8 93 6E 8C DB B6 13 4D E7 FF 78	6CDF9DCBF3510A3BB402761D62D0C5E4E7AFC51D9CFF01F02BD53256DC567ADF	
47	1	CN = GDCA TrustAUTH R4 OV SSL CA G2, O = "Global Digital Cybersecurity Authority Co., Ltd.", C = CN	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	b0 ef d0 2a 81 bf 1c e8 9f 7a 18 c2 94 e4 c3 3c	rsaEncryption	2048 bits	SHA256with RSA	2018-01-26	2027-05-20	5F F9 03 44 91 B2 A3 58 2B E5 78 12 E2 11 A4 03 52 47 D7 D4 5B 9F 4F A3 01 DC 51 90 6C 0E 7E 2B	E81B01F9F5692CF3823C6FD35886542BFAEEFC5EA94F4E246E42C4A9FC5FE8AB	

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48	1	CN = GDCA TrustAUTH R4 EV SSL CA G2, O = "Global Digital Cybersecurity Authority Co., Ltd.", C = CN	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	d5 f8 3e 8d da f6 7c 88 29 e8 90 16 b7 87 7d 13	rsaEncryption	2048 bits	SHA256with RSA	2018-01-26	2027-05-20	1A 57 EB 46 0C 3D 8D 6F 55 34 2E D8 D5 A5 C3 B1 3B 07 87 A7 54 3C 01 2E 77 C7 E1 CC E3 BE 11 D6	6869242CD8AD2AC77BC028947BC7D0C4F6E9CBF0899D65709810D89F94B5D70D	
49	1	CN = GoGetSSL Domain Validation CA SHA2, O = EnVers Group SIA, OU = GoGetSSL Certification Authority, C = LV	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	b0 a2 0c 00 9d a4 b5 eb a6 44 c7 9c 22 82 70 c5	rsaEncryption	2048 bits	SHA256with RSA	2018-01-26	2027-05-20	A7 5F 39 6D 8C 62 14 EF 99 C0 A0 15 FA 62 27 78 7C 3E BE E1 F6 AE AA 58 90 33 B2 8C A3 7B 0F 21	B5F62EC38131CD14B1FC95B877F4D210BE4BFACC7E6AA1422D89E34B7AC4C1	
50	1	CN = GoGetSSL Business Validation CA SHA2, O = EnVers Group SIA, OU = GoGetSSL Certification Authority, C = LV	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	c5 57 ea c3 1e 7e 21 fb 02 6f 20 e0 96 b6 ba d4	rsaEncryption	2048 bits	SHA256with RSA	2018-05-20	2027-05-20	5A 12 5B D5 18 63 EB E5 17 7E D5 54 91 E5 55 E4 28 8E 67 07 D6 17 88 1D B2 41 15 BF 25 A9 37 13	18958D03AFB409687A1BC263860D0D735A25A004AB60E0F0E45D6333587437AE	
51	1	CN = GoGetSSL Extended Validation CA SHA2, O = EnVers Group SIA, OU = GoGetSSL Certification Authority, C = LV	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	27 c6 c9 81 d3 d1 5d 0f 78 37 71 21 f8 23 3e 00	rsaEncryption	2048 bits	SHA256with RSA	2018-05-20	2027-05-20	04 F1 02 C7 AC 0D AB DD 29 F2 0B B4 62 92 75 15 CD 03 C7 B8 74 4A 69 2D 78 32 B9 C4 39 97 4F 96	EEDA15BA000B006EAD49A21BBE769F3BA6CE75C9249F0114D8DD882DFC0F2C1B	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
52	1	CN = WoTrus DV SSL CA O = WoTrus CA Limited, C = CN	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	34 9b b1 44 ae 56 11 e9 9b f4 34 5c 7f c9 ae fc	rsaEncryption	2048 bits	SHA256with RSA	2018-04-17	2027-05-18	AA 8D 50 CB 36 02 50 23 3A 4D 3A 64 7E 5C 96 95 ED 84 46 E3 50 F2 AE FF F7 DA 02 B7 54 66 0E 09	6970E396621417DCEE315AAC28BB5EA3161F175020F7F4E9BA17DADE58DBB08D	
53	1	CN = WoTrus OV SSL CA, O = WoTrus CA Limited, C = CN	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	05 ed 88 d8 08 8d 11 eb dd d6 23 96 3c ba ed 42	rsaEncryption	2048 bits	SHA256with RSA	2018-04-17	2027-05-18	C7 10 CA 27 A5 AC AC 86 75 5F F1 35 5C 8D 48 42 05 0D 19 CD 52 AA E4 A4 E5 49 32 38 11 CA AB 82	F6BF88B2A8DCD4FEB4015984EC2F1427C8017D140CF41F22EE689E0D6718012F	
54	1	CN = WoTrus EV SSL CA, O = WoTrus CA Limited, C = CN	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	07 dd ed 67 4e 2a 2c 08 c9 de 66 66 c9 71 54 1f	rsaEncryption	2048 bits	SHA256with RSA	2018-04-17	2027-05-18	6D F9 B7 D0 AD AE 7D 00 B7 81 02 0D C6 5E CE C1 11 28 15 24 04 26 B2 B8 79 C3 03 DE 3C BF 42 57	EA6963696750564A228B3EB88E0FD4304C5DA27A7AF92D1D4199357A50078315	
55	1	CN = WoTrus Code Signing CA O = WoTrus CA Limited, C = CN	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	6e a1 d4 94 5f 0e 69 e9 d6 f1 48 2c 58 6a 71 af	rsaEncryption	2048 bit	SHA256with RSA	2018-04-17	2027-05-18	AC 81 41 56 41 A2 B9 20 72 51 59 78 BE E9 09 CF 54 1C B5 86 4B 06 32 C9 F5 95 5A E8 DB 65 DC 0F	0829CAB693AADFAF21C77876DBE76BB9AC7491608FFAEBF7D1D53C289FC88452	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
56	1	CN = Abitab SSL Domain Validated, O = Abitab S.A., OU = IDdigital, C = UY	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	10 1d 42 22 55 e1 fe 41 66 60 c4 80 17 76 11	rsaEncryption	2048 bit	SHA256with RSA	2018-08-22	2027-05-02	F7 08 35 93 16 E5 FD EC 3E E7 EE ED A5 AB 6D 3C FB BF 8F D6 E0 0D CB 64 B9 C3 64 A4 E1 BE 53 AB	E67D18639367C5B29BF7A5683B56B0F0C23155C8FE9452BCFE51681436023742	
57	1	CN = Abitab SSL Organization Validated O = Abitab S.A. OU = IDdigital, C = UY	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	f0 d5 94 15 c6 de cb 4f 88 8f 28 37 e6 06 81 0f	rsaEncryption	2048 bit	SHA256with RSA	2018-08-22	2027-05-02	13 81 8B 0E D4 C4 C0 EE D4 09 E0 2D 3B C8 9B 6C EB BA 14 B6 71 48 85 02 FD F0 73 21 B3 39 99 5E	EEF9066424C23508E9C65F84671B14E16DA1BEC358E75FC6382ECA070AE861BE	
58	1	CN = Abitab SSL Extended Validation O = Abitab S.A., OU = IDdigital, C = UY	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	63 e9 b3 7a 0f ea 72 23 14 84 b6 7e ed 4b a9 e3	rsaEncryption	2048 bit	SHA256with RSA	2018-08-22	2027-05-02	CB 62 9A 02 C5 35 55 F2 5F 59 14 18 3D EA B7 1D 5C 4E D4 65 6B C1 2C 38 C4 6A BB AD 22 6D C8 82	93B281BD81D83CF986659DFFD0AF57993B92E6E4614162539F750524CE11BBCB	
59	1	CN = QIDUOCA 2018 DV SSL, O = "Suzhou Qiduo Information Technology Co., Ltd.", OU = Domain Validated SSL, C = CN	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	d8 f0 2e 70 02 e2 f5 3f a5 39 ea 25 3a 26 4d 3a	rsaEncryption	2048 bit	SHA256with RSA	2018-08-22	2027-05-02	1E 34 F5 D6 EC 5B D1 D5 D7 C5 99 E1 E8 55 26 11 65 47 50 BB 52 B4 F6 75 2C BC D1 61 D9 1D A2 A6	E372221266A330DD13EB1388DFAAF1FAB11DF254B63385CB637BF8F8B5FB675	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
60	1	CN = Shuidi Webtrust SSL Domain Validated O = Shanghai Ping An Credit Reference Company Limited, C = CN	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	90 73 d7 67 4c 9c ba 7b be 10 70 65 93 dd 72 33	rsaEncryption	2048 bit	SHA256with RSA	2019-02-07	2027-05-21	CF C5 2F 65 52 32 68 E4 E4 26 8B 25 D9 59 FC 1D B7 27 EC 28 4A 0A 8B 05 12 62 81 82 F4 4B 87 A5	4D67237B2CFACFFF3DDC83C2FF1C92A8E0A98A71BD04ED39F8AFF42AAF99371D	
61	1	CN = Shuidi Webtrust SSL Extended Validated O = Shanghai Ping An Credit Reference Company Limited, C = CN	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	a5 1d 34 44 bc de b1 f3 32 40 00 1b d5 8d 21 38	rsaEncryption	2048 bit	SHA256with RSA	2019-02-07	2027-05-21	60 04 58 F0 CE 29 35 54 23 4A C9 39 5E 0C 3E 37 76 FB 65 A4 2C B1 4D FE 32 5D AA E5 CE 79 3F 54	6C40D07F4705A5B4F04C6AECDC5A1BF5FD38D2B6CF2DB7F212CA251075BE125D	
62	1	CN = Shuidi Webtrust SSL Organization Validated, O = Shanghai Ping An Credit Reference Company Limited, C = CN	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	b3 78 0c 84 db 0d 04 1b 1c d6 6a 40 cb 8d 95 73	rsaEncryption	2048 bit	SHA256with RSA	2019-02-07	2027-05-21	6D 01 29 55 2F CF D9 36 89 04 88 60 A4 45 C1 0B C8 C7 A9 72 E5 A1 2F 5B E0 49 0A 7F 75 88 2C 4F	EE09D49C7CF441840DA5158D0E70D4C6CAEB4FCCFE6758EE4CC45C71A287DF39	
63	1	CN = OKCERT R4 DV SSL CA G2, O = "Kingnet Information Technology Co., Ltd.", C = CN,	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	69 c0 57 0d 6e 21 46 31 9a d1 e5 83 4e 04 9d cc	rsaEncryption	2048 bit	SHA256with RSA	2019-06-12	2027-05-21	BA DE F2 41 FE 1D 33 5A 82 47 95 ED 28 1A 18 56 FA 6F B4 D2	7EB445EA38A46A6411F0A12A0E16CD3D073E91B125679977041FFBCE83BE3C1A	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
64	1	CN = OKCERT R4 EV SSL CA G2, O = "Kingnet Information Technology Co., Ltd.", C = CN,	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	13 10 9c bc d4 29 ea e8 81 f0 9e 21 5f 2d ed 38	rsaEncryption	2048 bit	SHA256with RSA	2019-06-12	2027-05-21	B1 C0 46 71 EF A8 8E 0D 41 CA 5F 9B 95 2A 02 EE 2C 62 11 4B	C5453F7C147016A9AA0F5F4BB1D217DEBE1C2D368C53CF74D35F55C5233C498A	
65	1	CN = OKCERT R4 EV SSL CA G2, O = "Kingnet Information Technology Co., Ltd.", C = CN,	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	ec 4e 0e b6 ab 2a 27 8a 66 cf 3b 0d 61 9a 9d 82	rsaEncryption	2048 bit	SHA256with RSA	2019-06-12	2027-05-21	85 32 18 FF 77 9A C9 01 80 D8 1B 91 17 BA 14 40 02 31 6A 42	BCC3A54D7083116316CE03B9A40CA36F336F4839AC581862D4311A84F701514D	
66	1	CN = SZCA DV SSL CA, O = "Shenzhen Digital Certificate Authority Center Co., Ltd", C = CN,	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	db 3a e9 9f cf 64 07 d8 da ee 19 8c c7 71 8c 13	rsaEncryption	2048 bit	SHA256with RSA	2019-07-16	2027-05-21	76 B3 B0 CB F5 4E 91 21 B6 95 57 7B 83 0F FC 15 B2 0A 1C 30	F6787FA8CAD7D2C279A0374BFB503807CC6ADCC7C23709273DD5A4047D1AEF78	
67	1	CN = SZCA OV SSL CA, O = "Shenzhen Digital Certificate Authority Center Co., Ltd", C = CN	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	20 36 94 3c be a0 8b 69 2a 29 6d 66 24 40 64 a2	rsaEncryption	2048 bit	SHA256with RSA	2019-07-16	2027-05-21	2C C6 10 A7 F4 14 EC 84 19 3F B2 53 EC 98 CB 3C C9 F7 57 64	CC0B2512EE20280C36F30D57084ACB6B8636D94B481742E424335C7767E758C6	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
68	1	CN = SZCA EV SSL CA, O = "Shenzhen Digital Certificate Authority Center Co., Ltd", C = CN,	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	4e 0d 59 e1 3a 1a 08 eb 0d ae 89 e9 1b 67 50 da	rsaEncryption	2048 bit	SHA256with RSA	2019-07-16	2027-05-21	B3 FE DB E4 49 95 D0 A1 00 FB 85 69 DD 9E D2 0C 94 37 B0 CA	7FBF5DB4917639930076AAFF78FC91DDA0EFEEA86CAD38A18D98947D7CD36948	
69	1	CN = Certum Extended Validation RSA CA, O = Asseco Data Systems S.A., C = PL,	CN = Certum Trusted Root CA OU = Certum Certification Authority O = Asseco Data Systems S.A. C = PL	23 9c 8d 41 dd 60 d0 4e a6 a3 2f e0 04 a9 e8 5d	rsaEncryption	2048 bit	SHA256with RSA	2019-10-17	2034-10-17	4E 08 95 8E 4B C3 23 EB A3 3A 18 CA B8 36 AF D6 64 99 12 C9	1C4EEA3A47ABD122568EAB547E06B52111F7F388662C246C8ECBE2660B9F26F1	
70	1	CN = Certum Extended Validation ECC CA, O = Asseco Data Systems S.A. C = PL,	CN = Certum EC-384 CA OU = Certum Certification Authority O = Asseco Data Systems S.A. C = PL	63 b4 fb e0 20 28 aa 50 7d 92 93 41 6f f4 10 4f	id-ec PublicKey	384 bits	Sha384 ECDSA	2019-10-17	2034-10-17	1C E1 4E 22 49 74 57 E9 2B BF 99 E1 2A 56 0B 62 DC A1 E2 A3	C7063A8DC668205E66153108FBE3BDBF6EDB6F8CE5F616A369BEF6324DCB6354	
71	1	CN = vTrus DV SSL CA G1, O = "iTrusChina Co., Ltd.", C = CN,	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	cb 04 6b 58 04 e8 f3 da 02 4b cf ec 24 41 0d 08	rsaEncryption	2048 bit	SHA256with RSA	2019-12-20	2024-12-20	62 74 1D 64 6D 80 94 D6 DA C3 82 5F A2 97 F6 30 7F E5 C4 C9	A5764DFD0454AD3A06428B907DB8AA436DA6317209EAFD61DD42E56AE77F9B13	

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CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
72	1	CN = vTrus OV SSL CA G1, O = "iTrusChina Co., Ltd.", C = CN,	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	b8 f9 92 4f ee db 72 50 03 e0 15 cf 68 9f 8b f6	rsaEncryption	2048 bit	SHA256with RSA	2019-12-20	2024-12-20	6B 55 C9 82 20 73 E0 35 25 24 E1 48 57 54 B0 79 25 4B 79 A4	DAFD2506A7E917C126E5904479439D7795087F04FA7BBE614796727B9A161D6F	
73	1	CN = Root Global CA - G2, O = "Root Networks, LLC", C = US,	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	c3 e0 0f 9f 00 2e c5 59 ba 02 c4 a5 f2 60 0c 5e	rsaEncryption	2048 bit	SHA256with RSA	2020-01-30	2027-05-20	B1 C0 46 71 EF A8 8E 0D 41 CA 5F 9B 95 2A 02 EE 2C 62 11 4B	309A7823BB3D1DDF44A573EC0BF9FD5166625FDE73776184C62212B4C0B4E94E	

Cross-certificates

The cross certificates listed below are in scope only for the criterion 7.1 "Subordinate CA and Cross Certificate Lifecycle Management".

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
1	1	CN = Certification Authority of WoSign G2 O = WoSign CA Limited, C = CN	CN = Certum CA O = Unizeto Sp. Z. o. o. C = PL	7b bc 12 a5 5c 66 80 04 b9 fe 2a 0b 8b 68 81 20	rsaEncryption	2048 bits	sha1withRSA	2012-01-01	2020-11-02	38 1A 3F C7 A8 B0 82 FA 28 61 3A 4D 07 F2 C7 55 3F 4E 19 18 EE 07 CA A9 E8 B7 CE DE 5A 9C A0 6A	1092C43D57BCDA0AF70291E37FDDE88B02DE83E3F4013272D4CA2AE3C7498FE4	revoked Nov 29 08:07:11 2016 GMT
2	1	CN = Certification Authority of WoSign G2, O = WoSign CA Limited, C = CN	CN = Certum CA O = Unizeto Sp. z o.o., C = PL	bc 72 66 66 ff 58 bf f0 02 e5 22 3c ae 68 2b f8	rsaEncryption	2048 bits	SHA256with RSA	2012-02-01	2020-11-02	38 1A 3F C7 A8 B0 82 FA 28 61 3A 4D 07 F2 C7 55 3F 4E 19 18 EE 07 CA A9 E8 B7 CE DE 5A 9C A0 6A	7BDA50131EA7E55C8FDDA63563D12314A7159D5621333BA8BCDAD0B8A3A50E6C	revoked Nov 29 08:07:41 2016 GMT
3	1	CN = SSL.com Root Certification Authority RSA, O = SSL Corporation, L = Houston, ST = Texas, C = US	CN = Certum Trusted Network CA, = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL,	e4 27 04 95 f6 8c 91 d6 d0 ec 7b 49 4e a4 df 1c	rsaEncryption	2048 bits	SHA256with RSA	2018-09-11	2023-09-11	D1 C4 53 77 EB DC D6 18 CD 16 51 DC 2E 02 C2 1D 75 1E 5A A9 FC D1 B3 43 1F F6 EC F6 A3 13 48 FA	ACF718DF838E640051777D1947F51620E8D804BA186553AE52FC9811B5D34B8B	
4	1	CN = SSL.com Root Certification Authority RSA R2, O = SSL Corporation, L = Houston, ST = Texas, C = US	CN = Certum Trusted Network CA, = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL,	62 f8 12 a3 5f 52 bd 74 b7 18 d6 10 ac 4b 47 83	rsaEncryption	2048 bits	SHA256with RSA	2018-09-11	2023-09-11	7C D6 7C 24 8F 69 D8 3F C2 F9 BB 01 DC B1 F7 AD 67 A3 63 D0 46 04 37 96 D0 98 4C 3A 23 1F 6B B0	B97176F21B6ED64609267B2D1A2A9FAF0C4DEBD44644DC85EB6AE986FC867D56	