

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 27, 2018 to March 04, 2019 for its CAs as enumerated in Attachment A, ADS has:

- ▶ disclosed its extended validation SSL ("EV SSL") certificate lifecycle management business practices in its:
 - [Certification Practice Statement of Certum's Certification Services v6.0](#); and
 - [Certification Policy of Certum's Certification Services v4.4](#)including its commitment to provide EV SSL certificates in conformity with the CA/Browser Forum Guidelines on the ADS website, and provided such services in accordance with its disclosed practices

- ▶ maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and EV SSL certificates it manages is established and protected throughout their lifecycles; and
 - EV SSL subscriber information is properly authenticated (for the registration activities performed by ADS)

in accordance with the [WebTrust Principles and Criteria for Certification Authorities - Extended Validation SSL version 1.6.2](#).

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

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 - Extended Validation SSL version 1.6.2.

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 EV SSL certificate lifecycle management business practices, including its relevant controls over the issuance, renewal, and revocation of EV SSL certificates, and obtaining an understanding of ADS'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 EV SSL certificate lifecycle management 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 27, 2018 to March 04, 2019, 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 - Extended Validation SSL version 1.6.2

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 - Extended Validation SSL version 1.6.2., nor the suitability of any of ADS's services for any customer's intended purpose.

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

Use of the WebTrust seal

ADS's use of the WebTrust for Certification Authorities - Extended Validation SSL 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

A handwritten signature in blue ink that reads 'Ernst & Young'. Below the signature is a horizontal dotted line.

Warsaw August 09, 2019

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 Extended Validation SSL ("EV SSL") CA services.

The management of ADS is responsible for establishing and maintaining effective controls over its EV SSL CA operations, including its EV SSL CA business practices disclosure on its website https://www.certum.pl/pl/cert_wiedza_repozytorium_pl_en/, EV SSL key lifecycle management controls, EV SSL 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 EV SSL CA services. Based on that assessment, in ADS management's opinion, in providing its EV SSL Certification Authority (CA) services in Szczecin, Poland throughout the period March 27, 2018 to March 04, 2019, ADS has:

- disclosed its extended validation SSL ("EV SSL") certificate lifecycle management business practices in its:
 - [Certification Practice Statement of Certum's Certification Services v6.0](#) and
 - [Certification Policy of Certum's Certification Services v4.4](#)including its commitment to provide EV SSL certificates in conformity with the CA/Browser Forum Guidelines on the ADS website, and provided such services in accordance with its disclosed practices
- maintained effective controls to provide reasonable assurance that:
 - the integrity of keys and EV SSL certificates it manages is established and protected throughout their lifecycles; and
 - EV SSL subscriber information is properly authenticated (for the registration activities performed by ADS)

in accordance with the [WebTrust Principles and Criteria for Certification Authorities – Extended Validation SSL version 1.6.2.](#)

Management of Asseco Data Systems S.A.

Z upoważnienia Zarządu
Asseco Data Systems S.A.

Tomasz Litarowicz

Z upoważnienia Zarządu
Asseco Data Systems S.A.

Andrzej Kuciński

August 09, 2019

ADS CERTIFICATION AUTHORITY

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	Jun 11 10:46:39 2002	Jun 11 10:46:39 2027	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	d8 e0 fe bc 1d b2 e3 8d 00 94 0f 37 d2 7d 41 34 4d 99 3e 73 4b 99 d5 65 6d 97 78 d4 d8 14 36 24	
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	Oct 22 12:07:37 2008	Dec 31 12:07:37 2029	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	5c 58 46 8d 55 f5 8e 49 7e 74 39 82 d2 b5 00 10 b6 d1 65 37 4a cf 83 a7 d4 a3 2d b8 c4 40 8e	

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	Oct 22 12:07:37 2008 GMT	Dec 30 23:59:59 2025 GMT	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	2d 87 ff 20 fe 8a d2 30 5d fb 6f 39 92 86 7e d2 bf 4f e3 e1 34 62 12 c4 34 59 91 aa c0 22 66 e9
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	Oct 22 12:07:37 2008 GMT	Jun 10 10:46:39 2027 GMT	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	94 94 24 dc 2c ca ab 5e 9e 80 d6 6e 0e 3f 7d ee b3 20 1c 60 7d 43 15 ef 4c 6f 2d 93 a9 17 27 9d

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DATA SYSTEMS

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	Oct 06 08:39:56 2011	Oct 06 08:39:56 2046	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	b6 76 f2 ed da e8 77 5c d3 6c b0 f6 3c d1 d4 60 39 61 f4 9e 62 65 ba 01 3a 2f 03 07 b6 d0 b8 04	
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	Mar 16 12:09:04 2018 GMT	Mar 16 12:09:04 2043 GMT	5a 9b b2 1b 04 0e 90 d3 30 ed 41 48 f3 48 c8 f3 8f 20 84 e4	7a 5f bb 25 d8 f4 94 5f b9 bb 38 ad 0a 20 36 24 cd a7 8c c8 9f e2 e5 a5 34 94 37 bf 4b 3e 98 44	

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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	4096 bits	sha512With RSA	Mar 16 12:10:13 2018 GMT	Mar 16 12:10:13 2043 GMT	8c fb 1c 75 bc 02 d3 9f 4e 2e aa 49 3a 29 70 48 d9 f9 60 54 aa c4 b3 4f fa	a1 87 68 b9 35 3c ba 0b f3 00 aa 49 3a 29 70 49 0e 64 f9 d1 44 36 e0 23 6b f2 cb da 2a d0 9b 31	
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	Mar 26 07:24:54 2018 GMT	Mar 26 07:24:54 2043 GMT	8d 06 66 74 24 76 3a f3 89 f7 bc d6 bd 47 7d 2f bc 10 5f 4b	6b 32 80 85 62 53 18 aa 50 d1 73 c9 8d 8b da 09 d5 7e 27 41 3d 11 4c f7 87 a0 f5 d0 6c 03 0c f6	

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 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	Mar 3 13:06:12 2009 GMT	Mar 3 13:06:12 2024 GMT	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	2e 48 1f f3 a5 3d 29 3b d4 9f 3c d8 39 76 58 36 82 b3 bd 79 a1 60 fd 6e 9c a5 87 25 d9 3b 94 5b	
2	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	Sep 11 12:00:00 2014 GMT	Jun 9 10:46:39 2027 GMT	33 b6 83 fc 79 a0 cb b0 85 f2 c4 dd 76 be 6c a3 53 19 58 40 6e 35 f2 c8 74 67 b5 8e fc b4 5f a1	9e 85 2c 59 df c6 fd 6a bd 4e 17 ea 80 b5 f4 e5 6f c0 41 92 d1 07 25 8d 54 da 8a 92 52 86 70 d6	

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3	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	Dec 3 12:30:51 2009 GMT	Dec 3 12:30:51 2024 GMT	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	cf 1e a1 5d c9 c0 5a bc 72 af 0e 62 c4 8d 93 43 4a e0 27 1b 1a a4 31 8b e3 54 41 26 d2 4b 61 84	
4	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	Jan 24 11:36:55 2013 GMT	Jan 24 11:36:55 2028 GMT	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	78 16 c7 b0 56 6b 46 78 3b 1c 15 d8 a2 8d 8b 0d 20 cf eb 20 b3 d1 3f 79 44 6e 15 c4 a5 1c 91 df	

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5	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 f6 eb 4d 19 3c 17 a9 0a a3 8a 29 6e 54	rsaEncryption	2048 bits	SHA256with RSA	Sep 11 12:00:00 2014 GMT	Jun 9 10:46:39 2027 GMT	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	6c 47 d3 65 c1 3b c8 cc 3d 6d ef 5d 8f 07 ab 8d be a3 c8 d4 94 5d 65 1a a9 85 4a 9c 9a 3c c7 1c	
6	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	Nov 10 11:03:19 2016 GMT	Nov 10 11:03:19 2026 GMT	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	c0 ab 07 d9 07 1a 4c c1 d3 44 09 17 8f 8b ca 05 83 10 a8 b1 11 dd cf a6 55 65 87 60 22 6f 50 f9	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
7	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	Oct 23 07:22:36 2017 GMT	May 14 07:22:36 2027 GMT	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	bc 08 78 cb bc 4e 0d af 7a 9d a4 64 ab 16 26 2a 23 5b fd ae d3 3b 9f 95 69 ba 18 ff 34 99 75 80	
8	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	Jan 26 09:21:58 2018 GMT	May 20 09:21:58 2027 GMT	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	68 69 24 2c d8 ad 2a c7 7b c0 28 94 7b c7 d0 c4 f6 e9 cb f0 89 9d 65 70 98 10 d8 9f 94 b5 d7 0d	

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 = 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	Apr 17 08:17:48 2018 GMT	May 18 08:17:48 2027 GMT	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	ea 69 63 69 67 50 56 4a 22 8b 3e b8 8e 0f d4 30 4c 5d a2 7a 7a f9 2d 1d 41 99 35 7a 50 07 83 15	
10	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	May 20 09:09:45 2018 GMT	May 20 09:09:45 2027 GMT	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	ee da 15 ba 00 0b 00 6e ad 49 a2 1b be 76 9f 3b a6 ce 75 c9 24 9f 01 14 d8 dd 88 2d fc 0f 2c 1b	

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
11	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	Aug 22 07:12:25 2018 GMT	May 2 07:12:25 2027 GMT	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	93 b2 81 bd 81 d8 3c f9 86 65 9d ff d0 af 57 99 3b 92 e6 e4 61 41 62 53 9f 75 05 24 ce 11 bb cb	
12	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	Feb 7 09:18:47 2019 GMT	May 21 09:18:47 2027 GMT	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	6c 40 d0 7f 47 05 a5 b4 f0 4c 6a ec dc 5a 1b f5 fd 38 d2 b6 cf 2d b7 f2 12 ca 25 10 75 be 12 5d	