

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 Assertion 2024_CS* that for its Certification Authority (CA) operations in Szczecin, Poland, and supporting facilities in Łódź, Poland, throughout the period February 11, 2023 to February 10, 2024 for its CAs as enumerated in Attachment A, ADS has:

- ▶ disclosed its code signing ("CS") certificate lifecycle management business practices in its:
 - [Certification Practice Statement version 7.8](#); and
 - [Certification Policy version 5.0](#)including its commitment to provide CS certificates in conformity with the CA/Browser Forum Requirements on the ADS website, and provided such services in accordance with its disclosed practices
- ▶ maintained effective controls to provide reasonable assurance that:
 - CS subscriber information was properly collected, authenticated (for the registration activities performed by ADS) and verified;
 - The integrity of keys and CS certificates it manages is established and protected throughout their life cycles; and
- ▶ maintained effective controls to provide reasonable assurance that its CS Signing Authority and CS Timestamp Authority are operated in conformity with [CA/Browser Forum Baseline Requirements for the Issuance and Management of Publicly-Trusted Code Signing Certificates v3.7.0](#)
- ▶ maintained effective controls to provide reasonable assurance that:
 - EV CS subscriber information was properly collected, authenticated (for the registration activities performed by ADS) and verified;
 - The integrity of key and EV CS certificates it manages is established and protected throughout their life cycles.

in accordance with [WebTrust Principles and Criteria for Certification Authorities - Code Signing Baseline Requirements v3.2](#).

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 assertion, including the fairness of its presentation, and the provision of its described services, based on the WebTrust Principles and Criteria for Certification Authorities - Code Signing Baseline Requirements v3.2.

Our independence and quality management

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 Management (ISQM) 1, *Quality Management for Firms that Perform Audits or Reviews of Financial Statements, or Other Assurance or Related Services Engagements* which requires the firm to design, implement and operate a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Practitioner'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 (Revised), *Assurance Engagements Other than Audits or Reviews of Historical Financial Information*, issued by the International Auditing and Assurance Standards Board. This standard requires that we plan and perform our 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 ADS's CS and EVCS certificate lifecycle management business practices, including its relevant controls over the issuance, renewal, and revocation of CS and EVCS certificates, CS and EV CS Signing Authority certificates, and CS and EVCS Timestamp Authority certificates;
- 2) selectively testing transactions executed in accordance with disclosed CS and EVCS 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.

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

There are inherent limitations in the effectiveness of any system of internal control, including the possibility of human error and the circumvention of controls. For example, because of their nature, controls may not prevent, or detect unauthorised access to systems and information, or failure to comply with internal and external policies or requirements. Also, the projection to the future of any conclusions based on our findings is subject to the risk that controls may become ineffective.

Opinion

In our opinion, throughout the period from February 11, 2023 to February 10, 2024, ADS 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 - Code Signing Baseline Requirements v3.2.

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 - Code Signing Baseline Requirements v3.2, 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 - Code Signing Baseline Requirements 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.

Ernst & Young Audyt Polska sp. z o.o. sp.k.
Warsaw, Poland

**Jakub Jerzy
Walarus**

Digitally signed by Jakub Jerzy
Walarus
DN: cn=Jakub Jerzy Walarus,
c=PL
Date: 2024.04.12 16:24:42
+02'00'

Jakub Walarus

Podpisane elektronicznie przez Natalia
Dembek-Ślusarczyńska (Certyfikat
kwalifikowany) w dniu 2024-04-12.

Natalia Dembek-Ślusarczyńska

April 12, 2024

ASSECO DATA SYSTEMS S.A. MANAGEMENT'S ASSERTION

Asseco Data Systems S.A. ("ADS") operates the Certification Authority (CA) services as enumerated in **Attachment A**, and provides code signing ("CS") CA services.

The management of ADS is responsible for establishing and maintaining effective controls over its code signing services, including its code signing business practices disclosure on its website <https://www.certum.pl/pl/repozytorium/>, code signing key lifecycle management controls, and certificate lifecycle management controls. These controls contain monitoring mechanisms, and actions are taken to correct deficiencies identified.

There are inherent limitations in any controls, including the possibility of human error, and the circumvention or overriding of controls. Accordingly, even effective controls can only provide reasonable assurance with respect to 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 CS CA services. Based on that assessment, in ADS management's opinion, in providing its CS CA services in Szczecin, Poland, and supporting facilities in Łódź, Poland, throughout the period February 11, 2023 to February 10, 2024, ADS has:

- disclosed its Code Signing ("CS") certificate lifecycle management business practices in its:
 - [Certification Practice Statement version 7.8](#); and
 - [Certification Policy version 5.0](#)including its commitment to provide CS 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:
 - CS subscriber information was properly collected, authenticated (for the registration activities performed by ADS) and verified;
 - The integrity of keys and CS certificates it manages is established and protected throughout their life cycles.
- maintained effective controls to provide reasonable assurance that its CS Signing Authority and CS Timestamp Authority are operated in conformity with [CA/Browser Forum Baseline Requirements for the Issuance and Management of Publicly-Trusted Code Signing Certificates v3.7.0](#)
- maintained effective controls to provide reasonable assurance that:
 - EV CS subscriber information was properly collected, authenticated (for the registration activities performed by ADS) and verified;
 - The integrity of keys and EV CS certificates it manages is established and protected throughout their life cycle

in accordance with the [WebTrust Principles and Criteria for Certification Authorities – Code Signing Baseline Requirements v3.2](#).

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assecO
DATA SYSTEMS

Management of Asseco Data Systems S.A.

Andrzej Dopierała

11 kwietnia 2024

Paweł Barchwicz

11 kwietnia 2024

April 11, 2024

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	9736AC3B2 5D16C45A4 5418A96457 8156480A8C C434541DD C5DD59233 229868DE	D8E0FEB3C1DB2E38D00940F37D27D41344D993E734B99D5656D9778D4D8143624	- standard - SSL - SSL EV - Code Signing - S/MIME
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	AA2630A7B 617B04D0A 294BAB7A8 CAA5016E 6DBE60483 7A83A85719 FAB667EB5	5C58468D55F58E497E743982D2B50010B6D165374ACF83A7D4A32DB768C4408E	- standard - SSL - SSL EV - Code Signing - S/MIME
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	21d6d04 a4f250fc 93237fca a5e128d e9	rsaEncryption	4096 bits	sha512RSA	2011-10-06	2046-10-06	6B3B57E9E C88D1BB3D 01637FF33C 7698B3C975 8255E9F01E A9178F3E7 F3B2B52	B676F2EDDAE8775CD36CB0F63CD1D4603961F49E6265BA013A2F0307B6D0B804	- standard - SSL - SSL EV - Code Signing - S/MIME
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	d2de593 eaf11206 e7905e7 4176f23d b4	id-ec PublicKey	521 bits	sha512 ECDSA	2018-03-16	2043-03-16	5A9BB21B0 40E90D330 ED4148F34 8C8F38F208 4E4	7A5FBB25D8F4945FB9BB38AD0A203624CDA78CC89FE2E5A5349437BF4B3E9844	- standard - SSL - SSL EV - Code Signing - S/MIME

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 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	1ebf5950b8c980374c06f7eb554fb5ed	rsaEncryption	4096 bits	sha512WithRSA	2018-03-16	2043-03-16	8CFB1C75B C02D39F4E 2E48D9F96 054AAC4B3 4FFA	FE7696573855773E37A95E7AD4D9CC96C30157C15D31765BA9B15704E1AE78FD	- standard - SSL - SSL EV - Code Signing - S/MIME
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	788f275c81125220a504d02dddba73f4	id-ec PublicKey	384 bits	Sha384 ECDSA	2018-03-26	2043-03-26	8D06667424763AF389F7BCD6BD477D2FBC105F4B	6B328085625318AA50D173C98D8BDA09D57E27413D114CF787A0F5D06C030CF6	- standard - SSL - SSL EV - Code Signing - S/MIME
7	1	CN=Certum Code Signing RSA Root CA C=PL,O=Asseco Data Systems S.A.,	CN=Certum Code Signing RSA Root CA C=PL,O=Asseco Data Systems S.A.,	546683BCC36947ADA75B95BC40804808	rsaEncryption	4096 bits	sha384WithRSAEncryption	2023-01-27	2048-01-26	A473B2C5E5CDC00AFB187ECA469B7B5511EC2911	69BE9FCC7AD9717775969D96FF836CBDA6D15876BF758E0B7CACCB1A1BFA3B53	- standard - Code Signing
8	1	CN=Certum Code Signing ECC Root CA , C=PL,O=Asseco Data Systems S.A.,	CN=Certum Code Signing ECC Root CA , C=PL,O=Asseco Data Systems S.A.,	F0B6BD4ACD3428BD28A9C15F2A60769E	id-ec PublicKey	384 bits	ecdsa-with-SHA384	2023-01-27	2048-01-26	6D24B724455F09F55E58EE184404BF23A1AD110D	A0E90EB2F7DD82993430BF1C4B8423473FD91D4BA494FAA5327900D9094288F1	- standard - Code Signing

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., OU = Certum Certification Authority, C = PL	CN = Certum Trusted Network CA, O = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	d147aa29b04289f7f5c64247009fd339	rsaEncryption	2048 bits	sha1withRSA	2014-09-11	2027-06-09	0E530BDC821962629B91CE6C83F565C2EEC698B3A14C7C65C220E7B8CF2E5DCA	2AB4DFF69D75BBF9541060B434CE5AD0C4DACB7AF0DBF21D3616AFCB473796DE	- standard - SSL - SSL EV - Code Signing - S/MIME
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	177d3b09461efbe8f0faa4d35e2da799	rsaEncryption	2048 bits	sha1withRSA	2009-04-25	2024-04-25	31B17FEB3CC434980D301B5D895E91FFDF8667B97A365E108F017E196DFD626B	B34A33B44474FDB0078F113527BDB76FE5BF81CA24BB86D628136C5016043E8	- standard - SSL - SSL EV - Code Signing - S/MIME
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	00c53c18bf8f3f9cc77306a9c6a13e84e7	rsaEncryption	2048 bits	sha1withRSA	2009-03-03	2024-03-03	B4D31633D83B3105CD26915F7C0E6BF8A0E38959A65EB6D83DD42F56D391A48E	2E481FF3A53D293BD49F3CD83976583682B3BD79A160FD6E9CA58725D93B945B	- standard - SSL - SSL EV - Code Signing - S/MIME
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	00d04b6fe5dd5bd221e7c74cf6468b3146	rsaEncryption	2048 bits	SHA256withRSA	2014-09-11	2027-06-09	33B683FC79A0CBB085F2C4DD76BE6CA3531958406E35F2C87467B58EFCB45FA1	9E852C59DFC6FD6ABD4E17EA80B5F4E56FC04192D107258D54DA8A92528670D6	- standard - SSL - SSL EV - Code Signing - S/MIME
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	0de21c3ca714fe4b0a64ac469b1aacc	rsaEncryption	2048 bits	sha1withRSA	2009-03-03	2024-03-03	7548E568CD2A00D1BE9C9583B7AAC00732C80F84977E94397F3AAF17C07BF8F7	55BB45D85F2157403DB9BAA033ED2CAD7EC9A0C490CC4C5CA8C5399E6EACB7D0	- standard - SSL - SSL EV - Code Signing - S/MIME

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
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	770ac6c2 ba51a41 c1d5d2f9 9b26b0c 1a	rsaEncryption	2048 bits	sha1withRSA	2009-03-03	2024-03-03	405C2DC29 33AC5AD5D 5523844F3E 59440804DF 720FB04760 AB9FB821B 621DA25	FE716FF3996CD6561B6B63A8C440FDF5489CF48F7834283EEBD19B380F3FBC22	- standard - SSL - SSL EV - Code Signing - S/MIME
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	64fe29dc cf38e030 dcffe34d 0568966 1	rsaEncryption	2048 bits	sha1withRSA	2009-03-03	2024-03-03	0D3EFB8F1 12406F0DD 5A42C6CE4 7F9635FD58 0E14ECD57 5A27DBA44 0EC243FC4	DE8A6FD403447319FB31B471A9468A00A87DEDC062E6970D770A51603832688C	- standard - SSL - SSL EV - Code Signing - S/MIME
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	4ca5fec6 617c48b 056382a 8280e05 08c	rsaEncryption	2048 bits	sha1withRSA	2009-03-03	2024-03-03	F81D038262 81E61584B8 789BD349B 68EF089581 94E608D0D 1933265636 95AC90	14239787E8FEC7DFFA5F4C570B721B96C169ACCA3F4E95BC3057A3F8A60D7EEF	- standard - SSL - SSL EV - Code Signing - S/MIME
9	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	7f510c05 cfb39d04 fff306ba2 c56e827	rsaEncryption	2048 bits	sha1withRSA	2009-12-03	2024-12-03	33D8DFBD4 4CE117A9A 91C0A53598 74C4809673 5DAAB82A5 1F51F25E35 15EB692	CF1EA15DC9C05ABC72AF0E62C48D93434AE0271B1AA4318BE3544126D24B6184	- standard - SSL - SSL EV - Code Signing - S/MIME
10	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	fa33b79d d496cfd1 0c84653 9a49d63 b5	rsaEncryption	2048 bits	sha1withRSA	2011-09-20	2026-09-20	1BEF3990D A51B41010 A69C3F47B 326F52877F A10B9F0585 6319AE127 AFBF2410	0E8CC50D64DF43D35971DEC320B4BA226B0DC844380EB4B2BB7F845B12A3B48A	- standard - Code Signing

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 = 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	7f46f004f1a530486aa6b8b95e946748	rsaEncryption	2048 bits	sha1withRSA	2013-01-24	2028-01-24	8C8F2ACF398E86DCDE80B4D0CB3D5B90B20DDC4C85D78B411279A41BB7A7C31	1B82F666CEDC5D302B0A8F1CCE498CEECD730208A2337DC7664FEAC3DD2D0F92	- standard - Code Signing
12	1	CN = GIS CA, O = GAZINFORMSE RVICE Company limited, OU = CA, C = RU	CN = Certum Global Services CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	3d77a35b76b02931bc300d969f6161b6	rsaEncryption	2048 bits	SHA256withRSA	2014-09-30	2024-09-27	066CA18FAD76FB0A287064691E7735F6BDDDC4BF12CF7A86E0B0C8AFA541DE16	2E816BCF852D830245DDC3534BCF85A53B0B19991A525CD328626FD74A40FC82	- standard - SSL - SSL EV - Code Signing - S/MIME
13	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	f18734d48395862a0c3af6e4b927381a	rsaEncryption	4096 bits	sha1withRSA	2013-01-24	2028-01-24	AF19834886EE88D4BC7F3907AEAC1BE6033C7C65D85D8EC482AE5F2D8C849F8B	7816C7B0566B46783B1C15D8A28D8B0D20CFEB20B3D13F79446E15C4A51C91DF	- standard - SSL - SSL EV - Code Signing - S/MIME
14	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	b47de80b8745855c6e9c4e6bb189abb4	rsaEncryption	4096 bits	sha1withRSA	2013-01-24	2028-01-24	5ABEECD5E79ED66D094BFEAD76BE58BBFAC93A9AAC8EC6FC21E35C8664A390BE	337AC56F39FB8877B9F0524554B755D1835A807FFC9058DFC6DE1B707F696123	- standard - SSL - SSL EV - Code Signing - S/MIME

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
15	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	2539661f537d7b5cea2c999db63c083e	rsaEncryption	2048 bits	sha1withRSA	2014-04-16	2024-03-02	467DF2EEF6D1A02D081E5D1CF893BD48D1B03A6D602BDBDBB3F4976B889982	3A29828F3DDCA85FBD18628A052476431360AD67E89420282771C1236207D43C	- standard - SSL - SSL EV - Code Signing - S/MIME
16	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	26ddd22b46c9c44d5a694d39807e72ad	rsaEncryption	2048 bits	SHA256withRSA	2014-09-11	2027-06-09	4B801B24D1AFC92E7B9F3270BFCB0F31430BF151D2A87D6F6E205FB5D3DC12B2	129FB5DE501E24041CD14A81075FD1CDE257408D4A353E636912E38BDDA2D3FB	- standard - SSL - SSL EV - Code Signing - S/MIME
17	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	b5ad0f63854cc4622e4b3923b2900216	rsaEncryption	2048 bits	SHA256withRSA	2014-09-11	2027-06-09	E751AF78A36BA498ED1A95D8E500F1D37B3761343069089CE9D581AA8DF35FAB	FD02362244F31266CAFF005818D1004EC4EB08FB239AAFAAAFF47497D6005D6	- standard - SSL - SSL EV - Code Signing - S/MIME
18	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	00c5a2d3f6eb4d193c17a90aa38a296e54	rsaEncryption	2048 bits	SHA256withRSA	2014-09-11	2027-06-09	1D82D7F1FA9711B377367EFEE640C26A06DBC D99D2A17B0FFAB0316D92788AC3	6C47D365C13BC8CC3D6DEF5D8F07AB8DBEA3C8D4945D651AA9854A9C9A3CC71C	- standard - SSL - SSL EV - Code Signing - S/MIME

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
19	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	00c5a2d3f6eb4d193c17a90aa38a296e54	rsaEncryption	2048 bits	SHA256withRSA	2014-09-11	2027-06-09	1D82D7F1FA9711B377367EFEE640C26A06DBC D99D2A17B0FFAB0316D92788AC3	6C47D365C13BC8CC3D6DEF5D8F07AB8DBEA3C8D4945D651AA9854A9C9A3CC71C	- standard - SSL - SSL EV - Code Signing - S/MIME
20	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	528a14cda91a4b45a5637c03647f42c1	rsaEncryption	2048 bits	SHA256withRSA	2014-09-30	2024-09-27	B0F86924C397D7F40422330DFE72F2F988A8C643B4A411922BB73E323F70C9BC	749CC529CDAAB9AE2858147C4B001AE1D5BE058FC165C3E74AF9704131C5E1C1	- standard - SSL - SSL EV - Code Signing - S/MIME
21	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	4e4f65e01f6b735afe9c072c607c4abf	rsaEncryption	2048 bits	SHA256withRSA	2014-09-30	2024-09-27	BB6AB346B01D98DAFE31ECACBA98BDC7B50D31A2D8673B93E0E4D3867FFAC45E	277CF4B65F530FCC07285EF89D8311884884004E4F2C7DBE7CA006E96536CD62	- standard - SSL - SSL EV - Code Signing - S/MIME
22	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	3d5dfff1eb3144fc808cfa46bf8cc17b	rsaEncryption	2048 bits	SHA256withRSA	2014-09-30	2024-09-27	00E5F2E90785457AF72DEDA3CBD5541D57344D8E8DA1F0D0B1E15071A0D1968C	65DE322A1EF7AFFEDEB7387138C26060825B08CC27E1992DD9EAC8337297957B	- standard - SSL - SSL EV - Code Signing - S/MIME
23	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	e40547830e0c6452976f7a3549c0dd48	rsaEncryption	2048 bits	SHA256withRSA	2015-01-21	2025-01-18	2CD15EFB2738FCD65B255CA7A7101E01DF9BAD4DC43F019BB7017A55E52323F6	C333B61638B0315FA801CCE21CC4EA96EF7F65A3999450186A99D19BB20128F7	- standard - SSL - SSL EV - Code Signing - S/MIME

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
24	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	0a21d80af794ed9046816a3c5db3dd33	rsaEncryption	2048 bits	SHA256withRSA	2015-01-28	2025-01-25	48F7E52533DF6D183A356624C6B39AA96163914CFA77A7F17BC3CE72D3F2105A	59A3456E750E325FCB1359DC29E828189B4982C119C64FACFD6728711B30532F	- standard - SSL - SSL EV - Code Signing - S/MIME
25	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	66dae03db8461916b25ba83fb174e13	rsaEncryption	2048 bits	SHA256withRSA	2015-04-21	2027-06-09	41D72A22FD8E3CD803EF9C37D9DF6D303C9A8B6F82973491B7FE3D8B4598C1B5	0F672D92A0B06CEE948F03B272502602C6E37D2A2AD694A31D5DE313196E9282	- standard - SSL - SSL EV - Code Signing - S/MIME
26	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	606c62dc97d1a0392ee9cb12b21d6dd9	rsaEncryption	2048 bits	SHA256withRSA	2015-12-31	2025-12-28	016E94F2A3EA935D78ADF976B008621229B63DD26ABF45BFC17964A554088FE	A69C59966EBBCDFEC7F4FF0288C86FF60356FA7860208B93B43A095B0600CC1E	- standard - SSL - SSL EV - Code Signing - S/MIME
27	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	6b326a0f0328d37a1d530bfd23bd48e2	rsaEncryption	2048 bits	SHA256withRSA	2015-10-29	2027-06-09	9FC9321AE26600F77F3B1D9EA54D6F36B54E4E9E65C2BE32E57061E34D4A904B	06E5BAF59E3DA805CE9F286DF1BAEA93D2BD671F6D73728A25EB6AC697F204C1	- standard - Code Signing
28	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	4e96c1ba06258a0c2aba27625e9064d3	rsaEncryption	2048 bits	SHA256withRSA	2015-10-29	2027-01-19	2A6162E44DFC3808BD888B7BE2372DEE22474340126E338EC1D2B9ECE143BBC5	176AAE8BDD5DD06A7DBD42862DC173BD838FFE3013103B097B9671C37BA6AE14	- standard - Code Signing

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
29	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	311d7ed de49202 08bbd85 ef7262bba	rsaEncryption	2048 bits	SHA256with RSA	2016-06-08	2026-06-06	E4F2788C1 D6C8C9E64 C776B40EC DA7A093DC D3B64E6FF CB5BD1D6 D375B7916 C4	A95F23B52AF10895886FB65323D29A9876EA7D396F805E4CA280D561C26E3DAD	- standard - SSL - SSL EV - Code Signing - S/MIME
30	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	17ef72b4 157d6f4b 68e4bdd 575e5ccae	rsaEncryption	2048 bits	SHA256with RSA	2016-11-09	2026-11-09	1594B417FF C9EC51F3A 4DAAFDB67 E14D96759 ECF258AFA 846A207D35 FB5D8A85	7B0BC3563D43309118F560A6C99A221C35399B10293F73BE41A12ACA0338075F	- standard - Code Signing
31	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	7c0876a e51f52f1 27a9532 47b4834 b62	rsaEncryption	2048 bits	SHA256with RSA	2017-04-18	2027-04-16	B0DED8BF4 A93CA35BE 0494DF9337 55BD8C5DD 44C5417097 772FC1B2F 3B64E457	31AC346B31073DC0D134E29FC212CC4A15ED3530EEA1EDCFC8DACB36492D5DE4	- standard - SSL - SSL EV - Code Signing - S/MIME
32	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	f15cc09c 2dcc6102 08b80ea 3057243 a9	rsaEncryption	2048 bits	SHA256with RSA	2017-10-23	2027-05-14	9190F5AC0 872754718C 7F8878B043 EC6C87DD A275CE42A F2BECE3ED 8C7909E99	C25F1E96000BC36E2AA5CD54BF24F48B76890A162E1AD8E104992650510626C2	- standard - SSL - SSL EV - Code Signing - S/MIME
33	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	309e97b 6ccd8672 842fa205 9592920 a8	rsaEncryption	2048 bits	SHA256with RSA	2017-10-23	2027-05-14	8446516F46 817F287FD7 2A22EC823 69B44D0FC 90A42605B0 7CB6678BB 9595076	7A142B1A5E16215183A13E840A862A437E293D9366921DB07EDB54F138AC0D78	- standard - SSL - SSL EV - Code Signing - S/MIME

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
34	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	178666a8554accbfe73457e6451a686c	rsaEncryption	2048 bits	SHA256withRSA	2017-10-23	2027-05-14	DF3BE1AFD14BA31FFA1CAF822EF47FC04E172908EDA83BF334FC52AF433C8DE6	BC0878CBBC4E0DAF7A9DA464AB16262A235BFDAED33B9F9569BA18FF34997580	- standard - SSL - SSL EV - Code Signing - S/MIME
35	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	1509b3b352d6689b5a7272f372e7e028	rsaEncryption	2048 bits	SHA256withRSA	2017-10-23	2027-05-14	02A9F195518772E132C01750C6770EA0C05DDB0FA274D95FA031274E0131E52E	A416A2BA490C454E23B85BF087DB7B137F4F47D9747E60F8692FF4C8DF0E062B	- standard - SSL - SSL EV - Code Signing - S/MIME
36	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	9e9cb69426c45cc4306d3e1cc2a79efc	rsaEncryption	2048 bits	SHA256withRSA	2018-01-26	2027-05-20	71FB108FAF19908C9B935817EA18B359A72813B86FA8936E8CDBB6134DE7FF78	6CDF9DCBF3510A3BB402761D62D0C5E4E7AFC51D9CFF01F02BD53256DC567ADF	- standard - SSL - SSL EV - Code Signing - S/MIME
37	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	b0efd02a81bf1ce89f7a18c294e4c33c	rsaEncryption	2048 bits	SHA256withRSA	2018-01-26	2027-05-20	5FF9034491B2A3582BE57812E211A4035247D7D45B9F4FA301DC51906C0E7E2B	E81B01F9F5692CF3823C6FD35886542BFAEEFC5EA94F4E246E42C4A9FC5FE8AB	- standard - SSL - SSL EV - Code Signing - S/MIME
38	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	d5f83e8ddaf67c8829e89016b7877d13	rsaEncryption	2048 bits	SHA256withRSA	2018-01-26	2027-05-20	1A57EB460C3D8D6F55342ED8D5A5C3B13B0787A7543C012E77C7E1CCE3BE11D6	6869242CD8AD2AC77BC028947BC7D0C4F6E9CBF0899D65709810D89F94B5D70D	- standard - SSL - SSL EV - Code Signing - S/MIME

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
39	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	b0a20c09da4b5eba644c79c228270c5	rsaEncryption	2048 bits	SHA256with RSA	2018-01-26	2027-05-20	A75F396D8C6214EF99C0A015FA6227787C3EBEE1F6AEA A589033B28CA37B0F21	B5F62EC38131CD14B1FC95B877F4D210BE4BFACC7E6A6AA1422D89E34B7AC4C1	- standard - SSL - SSL EV - Code Signing - S/MIME
40	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	c557eac31e7e21fb026f20e096b6bad4	rsaEncryption	2048 bits	SHA256with RSA	2018-05-20	2027-05-20	5A125BD51863EBE5177ED55491E555E4288E6707D617881DB24115BF25A93713	18958D03AFB409687A1BC263860D0D735A25A004AB60E0F0E45D6333587437AE	- standard - SSL - SSL EV - Code Signing - S/MIME
41	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	27c6c981d3d15d0f78377121f8233e00	rsaEncryption	2048 bits	SHA256with RSA	2018-05-20	2027-05-20	04F102C7AC0DABDD29F20BB462927515CD03C7B8744A692D7832B9C439974F96	EEDA15BA000B006EAD49A21BBE769F3BA6CE75C9249F0114D8DD882DFC0F2C1B	- standard - SSL - SSL EV - Code Signing - S/MIME
42	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	6ea1d4945f0e69e9d6f1482c586a71af	rsaEncryption	2048 bits	SHA256with RSA	2018-04-17	2027-05-18	AC81415641A2B92072515978BEE909CF541CB5864B0632C9F5955AE8DB65DC0F	0829CAB693AADF21C77876DBE76BB9AC7491608FFAE8F7D1D53C289FC88452	- standard - Code Signing
43	1	CN = Abitab SSL Domain Validated, O = Abitab S.A., OU = IDigital, C = UY	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	101d422255e1fe416660c480177611	rsaEncryption	2048 bits	SHA256with RSA	2018-08-22	2027-05-02	F708359316E5FDEC3EE7EEDA5A86D3CFBBF8FD6E00DCB64B9C364A4E1BE53AB	E67D18639367C5B29BF7A5683B56B0F0C23155C8FE9452BCFE51681436023742	- standard - SSL - SSL EV - Code Signing - S/MIME

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 = 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	f0d59415 c6dec4f 888f2837 e606810f	rsaEncryption	2048 bits	SHA256with RSA	2018-08-22	2027-05-02	13818B0ED 4C4C0EED4 09E02D3BC 89B6CEBBA 14B6714885 02FDF07321 B339995E	EEF9066424C23508E9C65F84671B14E16DA1BEC358E75FC6382ECA070AE861BE	- standard - SSL - SSL EV - Code Signing - S/MIME
45	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	63e9b37 a0fea722 31484b6 7eed4ba 9e3	rsaEncryption	2048 bits	SHA256with RSA	2018-08-22	2027-05-02	CB629A02C 53555F25F5 914183DEA B71D5C4ED 4656BC12C 38C46ABBA D226DC882	93B281BD81D83CF986659DFFD0AF57993B92E6E4614162539F750524CE11B8CB	- standard - SSL - SSL EV - Code Signing - S/MIME
46	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	d8f02e70 02e2f53f a539ea2 53a264d 3a	rsaEncryption	2048 bits	SHA256with RSA	2018-08-22	2027-05-02	1E34F5D6E C5BD1D5D7 C599E1E85 5261165475 0BB52B4F6 752CBCD16 1D91DA2A6	E372221266A330DD13EB138DFAAF1FAB11DF254B63385CB637BFEF8FB5FB675	- standard - SSL - SSL EV - Code Signing - S/MIME
47	1	CN=Certum Code Signing 2021 CA; O=Asseco Data Systems S.A.; C=PL	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	0099A38 00A2655 3B65ABD C6E84A6 B3EA39	rsaEncryption	2048 bits	SHA256with RSA	2021-05-19	2036-05-18	E64D532CF 987EE0260F DA04A8251 103CB650F 7CF8FC92A 7D3865F5D 6E8992E50	5AC82CBE9F28351E85D5262293BCFC8BACABEAD1294F248C1DF17F81CE5AC3CE	- standard - Code Signing

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
48	1	CN=Certum Extended Validation Code Signing 2021 CA; O=Asseco Data Systems S.A.; C=PL	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	00BBF0C CB5B7B8 31FD21A E32778A E40C89	rsaEncryption	2048 bits	SHA256with RSA	2021-05-19	2036-05-18	F5DA4F4D2 E1261D2CD 32497F9EE1 7674B710B7 BE86F4A44 EFA44314B C4F778DB	D6D9BFA813BFCBAB204C1AE503D2DE4093D2FC0041E365485AD02139F66AA76A	- standard - Code Signing
49	1	CN=Certum Timestamping 2021 CA; O=Asseco Data Systems S.A.; C=PL	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	00E7FF6 9C73B35 CE4B912 6D8747C 68A587	rsaEncryption	2048 bits	SHA256with RSA	2021-05-19	2036-05-18	308D118FA E3DB23F51 4FDD10984 DB28BAB2F 98CCA6316 19964FB511 69B3A1D21	F882EFFC16DE28D508C092E35825B00242CF963071C279EF09310D9D95784B35	- standard - Code Signing
50	1	CN=WoTrus Code Signing 2021 CA; O=WoTrus CA Limited; C=CN	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	389CD29 D8FDBC 739F549 33BECE9 893B4	rsaEncryption	2048 bits	SHA256with RSA	2021-05-26	2027-05-18	28C16484C ECD9716C5 C7C9134AD F7EB2DA53 63D23DC03 839DA3ED7 EF3AE67A3 0	2D687BA569A21640D62F424A999FF36FCAC2203815FCAF5EB0FB77C98C9EC45F	- standard - Code Signing

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 = 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	23e8290d71950418c008597e42f7481b	rsaEncryption	2048 bits	sha1withRSA	2008-10-22	2025-12-30	AA2630A7B617B04D0A294BAB7A8CAA5016E6DBE604837A83A85719FAB667EB5	2D87FF20FE8AD2305DFB6F3992867ED2BF4FE3E1346212C4345991AAC02266E9	- standard - SSL - SSL EV - Code Signing - S/MIME
2	1	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	939285400165715F947F288FEFC99B28	rsaEncryption	2048 bits	sha1withRSA	2008-10-22	2027-06-10	AA2630A7B617B04D0A294BAB7A8CAA5016E6DBE604837A83A85719FAB667EB5	949424DC2CCAAB5E9E80D66E0E3F7DEEB3201C607D4315EF4C6F2D93A917279D	- standard - SSL - SSL EV - Code Signing
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	e4270495f68c91d6d0ec7b494ea4df1c	rsaEncryption	2048 bits	SHA256withRSA	2018-09-11	2023-09-11	d1c45377ebdcd618cd1651dc2e02c21d751e5aa9fcd1b3431ff6ecf6a31348fa	ACF718DF838E640051777D1947F51620E8D804BA186553AE52FC9811B5D34B8B	- standard - SSL - SSL EV - Code Signing - S/MIME Expired
4	1	CN = SSL.com EV 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	62f812a35f52bd74b718d610ac4b4783	rsaEncryption	2048 bits	SHA256withRSA	2018-09-11	2023-09-11	7cd67c248f69d83fc2f9bb01dcb1f7ad67a363d046043796d0984c3a231f6bb0	B97176F21B6ED64609267B2D1A2A9FAF0C4DEBD44644DC85EB6AE986FC867D56	- standard - SSL - SSL EV - Code Signing - S/MIME Expired
5	1	CN=Certum Trusted Network CA 2; 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	1BB58F252ADF23004928C9AE3D7EED27	rsaEncryption	4096 bits	SHA384WithRSA	2021-05-31	2029-09-17	6B3B57E9EC88D1BB3D01637FF33C7698B3C9758255E9F01EA9178F3E7F3B2B52	08E7EAC998A62C4155CC4CBC5EDA32F5B41A12C012F29AB3433BD366348149F0	- standard - SSL - SSL EV - Code Signing - S/MIME

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
6	1	CN = Certum Trusted Root CA O = Asseco Data Systems S.A., OU = Certum Certification Authority C = PL	CN = Certum Trusted Network CA O = Unizeto Technologies S.A., OU = Certum Certification Authority C = PL	D8E0744B5824919FBD08847DF72020FA	rsaEncryption	4096 bits	sha512WithRSAEncryption	2023-09-19	2028-09-19	8CFB1C75B C02D39F4E 2E48D9F96 054AAC4B3 4FFA	FB13890C7AB14FF7B94B2714503E31123BFDD340FC4D979743166E0469B47A88	- standard - SSL - SSL EV - Code Signing - S/MIME
7	1	CN = Certum EC-384 CA O = Asseco Data Systems S.A., OU = Certum Certification Authority C = PL	CN = Certum Trusted Network CA O = Unizeto Technologies S.A., OU = Certum Certification Authority C = PL	DAFD4BF54121E027D68696225F1FCEE8	id-ecPublicKey	384 bits	sha512WithRSAEncryption	2023-09-19	2028-09-19	8D06667424763AF389F7BCD6BD477D2FBC105F4B	B72450ABF5047A8AF63EC9D87E331484850B1849A2550A82A86DB6B41ED38760	- standard - SSL - SSL EV - Code Signing - S/MIME