

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_SSL* 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 SSL certificate lifecycle management business practices in its:
 - [Certification Practice Statement version 7.8](#); and
 - [Certification Policy version 5.0](#)including its commitment to provide SSL 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:
 - the integrity of keys and SSL certificates it manages is established and protected throughout their lifecycles; and
 - SSL subscriber information is properly authenticated (for the registration activities performed by ADS)
- ▶ maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorized individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity
- ▶ maintained effective controls to provide reasonable assurance that it meets the Network and Certificate System Security Requirements as set forth by the CA/Browser Forum

in accordance with the [WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.7](#).

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 in accordance with the WebTrust Principles and Criteria for Certification Authorities - SSL Baseline with Network Security v2.7.

Our independence and quality management

We have complied with 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 Audit 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 SSL certificate lifecycle management business practices, including its relevant controls over the issuance, renewal, and revocation of 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 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.

ADS management has disclosed to us the attached matters (Attachment B) that have been posted publicly in the online forums of the Bugzilla site, as well as the online forums of individual internet browsers that comprise the CA/Browser Forum. We have considered the nature of these comments in determining the nature, timing, and extent of our procedures.

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 - SSL Baseline with Network Security v2.7.

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 - SSL Baseline with Network Security v2.7., 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 - SSL Baseline with Network Security Seal constitutes a symbolic representation of the contents of this report and it is not intended, nor should it be construed, to update this report or provide any additional assurance.

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 17:35:59
+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 SSL CA services.

ADS also operates the Certification Authority (CA) services as enumerated in **Attachment A**, and provides non-SSL services.

The management of ADS is responsible for establishing and maintaining effective controls over its SSL and non-SSL CA operations, including its network and certificate security system controls, its SSL CA business practices disclosures on its website <https://www.certum.pl/pl/repozytorium/>, SSL key lifecycle management controls, and 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 SSL CA services. Based on that assessment, in providing its SSL and non-SSL Certification Authority (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 SSL certificate lifecycle management business practices in its:
 - [Certification Practice Statement version 7.8](#); and
 - [Certification Policy version 5.0](#)including its commitment to provide SSL 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:
 - the integrity of keys and SSL certificates it manages is established and protected throughout their lifecycles; and
 - SSL subscriber information is properly authenticated (for the registration activities performed by ADS)
- maintained effective controls to provide reasonable assurance that:
 - logical and physical access to CA systems and data is restricted to authorized individuals;
 - the continuity of key and certificate management operations is maintained; and
 - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity
- maintained effective controls to provide reasonable assurance that it meets the Network and Certificate System Security Requirements as set forth by the CA/Browser Forum

in accordance with the [WebTrust Principles and Criteria for Certification Authorities – SSL Baseline with Network Security v2.7](#).

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ASSECO
DATA SYSTEMS

Management of Asseco Data Systems S.A.

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April 11, 2024

Andrzej Dopierała
11 kwietnia 2024

Paweł Barchwicz
11 kwietnia 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	D8E0FEBFC1DB2E38D00940F37D27D41344D993E734B99D5656D9778D4D8143624	- 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	1ebf5950 b8c9803 74c06f7e b554fb5e d	rsaEncryption	4096 bits	sha512With RSA	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	788f275c 8112522 0a504d0 2dddba7 3f4	id-ec PublicKey	384 bits	Sha384 ECDSA	2018-03-26	2043-03-26	8D06667424 763AF389F7 BCD6BD477 D2FBC105F 4B	6B328085625318AA50D173C98D8BDA09D57E27413D114CF787A0F5D06C030CF6	- standard - SSL - SSL EV - Code Signing - S/MIME
7	1	CN=Certum TLS RSA Root CA, C=PL,O=Asseco Data Systems S.A.,	CN=Certum TLS RSA Root CA, C=PL,O=Asseco Data Systems S.A.,	E7DD213 8A2C941 46FF5F1 2178995 0553	rsaEncryption	4096 bits	sha384WithR SAEncryption	2023-01-27	2048-01-26	EB34E400A 1E67B7CD2 23F4CAD74 EC0CB8567 1576	ED12A6E9289239D66CA1D244CE90C623AC305AD05602DA352BCFC5FEF2C4458D	- standard - SSL - SSL EV
8	1	CN=Certum TLS ECC Root CA C=PL,O=Asseco Data Systems S.A.,	CN=Certum TLS ECC Root CA C=PL,O=Asseco Data Systems S.A.,	B07EC0 CB2E05E 63C71DA 0D7F997 971F3	id-ec PublicKey	384 bits	ecdsa-with- SHA384	2023-01-27	2048-01-26	30BD170817 FEB5108694 0D7863726 C5867B9D0 EA	630CCB83B0180A992495E039D2613C3287A8102F8A8D703DB1330A3E86D4E653	- standard - SSL - SSL EV

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,	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	00d04b6fa5dd5bd221e7c74cf6468b3146	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	770ac6c2ba51a41c1d5d2f99b26b0c1a	rsaEncryption	2048 bits	sha1withRSA	2009-03-03	2024-03-03	405C2DC2933AC5AD5D5523844F3E59440804DF720FB04760AB9FB821B621DA25	FE716FF3996CD6561B6B63A8C440DF5489CF48F7834283EEBD19B380F3FBC22	- 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	64fe29dcf38e030dcffe34d05689661	rsaEncryption	2048 bits	sha1withRSA	2009-03-03	2024-03-03	0D3EFB8F12406F0DD5A42C6CE47F9635FD580E14ECD575A27DBA440EC243FC4	DE8A6FD403447319FB31B471A9468A00A87DEDCC062E6970D770A51603832688C	- 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	4ca5fec6617c48b056382a8280e0508c	rsaEncryption	2048 bits	sha1withRSA	2009-03-03	2024-03-03	F81D03826281E61584B8789BD349B68EF08958194E608D0D193326563695AC90	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	7f510c05cfb39d04fff306ba2c56e827	rsaEncryption	2048 bits	sha1withRSA	2009-12-03	2024-12-03	33D8DFBD44CE117A9A91C0A5359874C48096735DAAB82A51F51F25E3515EB692	CF1EA15DC9C05ABC72AF0E62C48D93434AE0271B1AA4318BE3544126D24B6184	- standard - SSL - SSL EV - Code Signing - S/MIME
10	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

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 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
12	1	CN = Certum Class 1 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	337AC56F39FB8877B9F0524554B755D1835A807FC9058DFC6DE1B707F696123	- standard - SSL - SSL EV - Code Signing - S/MIME
13	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	467DF2EEFF6D1A02D081E5D1CF893BD48D1BC03A6D602BDBDBB3F4976B889982	3A29828F3DDCA85FBD18628A052476431360AD67E89420282771C1236207D43C	- standard - SSL - SSL EV - Code Signing - S/MIME
14	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
15	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	FD02362244F31266CAFF005818D1004EC4EB08FB239AAFAAAFF747497D6005D6	- 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
16	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
17	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
18	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
19	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

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 = 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	3d5dff1e b3144fc8 08cfa46b f8cc17b	rsaEncryption	2048 bits	SHA256with RSA	2014-09-30	2024-09-27	00E5F2E907 85457AF72 DEDA3CBD 5541D57344 D8E8DA1F0 D0B1E1507 1A0D1968C	65DE322A1EF7AFFEDEB7387138C26060825B08CC27E1992DD9EAC8337297957B	- standard - SSL - SSL EV - Code Signing - S/MIME
21	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	e405478 30e0c64 52976f7a 3549c0d d48	rsaEncryption	2048 bits	SHA256with RSA	2015-01-21	2025-01-18	2CD15EFB2 738FCD65B 255CA7A71 01E01DF9B AD4DC43F0 19BB7017A 55E52323F6	C33B61638B0315FA801CCE21CC4EA96EF7F65A3999450186A99D19BB20128F7	- standard - SSL - SSL EV - Code Signing - S/MIME
22	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	0a21d80 af794ed9 046816a 3c5db3d d33	rsaEncryption	2048 bits	SHA256with RSA	2015-01-28	2025-01-25	48F7E52533 DF6D183A3 56624C6B39 AA96163914 CFA77A7F1 7BC3CE72D 3F2105A	59A3456E750E325FCB1359DC29E828189B4982C119C64FACFD6728711B30532F	- standard - SSL - SSL EV - Code Signing - S/MIME
23	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	66dae03 db84619 16b25ba 83fb174e 13	rsaEncryption	2048 bits	SHA256with RSA	2015-04-21	2027-06-09	41D72A22F D8E3CDB03 EF9C37D9D F6D303C9A 8B6F829734 91B7FE3D8 B4598C1B5	0F672D92A0B06CEE948F03B272502602C6E37D2A2AD694A31D5DE313196E9282	- standard - SSL - SSL EV - Code Signing - S/MIME
24	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	606c62dc 97d1a03 92ee9cb 12b21d6 dd9	rsaEncryption	2048 bits	SHA256with RSA	2015-12-31	2025-12-28	016E94F2A3 EA935D78A DF976B008 621229B63D FD26ABF45 BFC17964A 554088FE	A69C59966EBBCDFEC7F4FF0288C86FF60356FA7860208B93B43A095B0600CC1E	- 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
25	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
26	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	ef051a74 1a1d940 9fca5e46 40f8d3c9 b	rsaEncryption	2048 bits	SHA256with RSA	2016-11-09	2026-11-09	319283D9C EB4147101 A23FAE64D 95E8329481 AF09A7EED 2D059D9E5 076A8D3ED	C7F546F0C76C9A0DA9992E9884E6248B7CA2BB6ADE838BD7A03A8C41EE2A3064	- standard - SSL - SSL EV
27	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	520a3a4 69d146b 20297afd 015e64a bf5	rsaEncryption	2048 bits	SHA256with RSA	2016-11-10	2026-11-10	914B1AA84 15C44D61E 2CC0DA292 4FCDA308A D9F3F64334 83454C8DF 768A272FC	C0AB07D9071A4CC1D34409178F8BCA058310A8B111DDCFA655658760226F50F9	- standard - SSL - SSL EV
28	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	31AC346B31073DC0D134E29FC212CC4A15ED3530EEA1EDCF8DACB36492D5DE4	- standard - SSL - SSL EV - Code Signing - S/MIME
29	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	e21a211 aa891e2 d35459ff d36d27c 426	rsaEncryption	2048 bits	SHA256with RSA	2017-05-18	2027-05-18	1BF57EE00 608F570243 63764E1266 A2EB5A4CA 57D96E03C 6D52E1C36 7014D45E	0330286DF3612C0E968DCD518A7A316D5E0790D1CA324B906B0EF017C0BE3EA7	- standard - SSL - SSL EV

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
30	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	f15cc09c2dcc610208b80ea3057243a9	rsaEncryption	2048 bits	SHA256withRSA	2017-10-23	2027-05-14	9190F5AC0872754718C7F8878B043EC6C87DDA275CE42AF2BECE3ED8C7909E99	C25F1E9600BC36E2AA5CD54BF24F48B76890A162E1AD8E104992650510626C2	- standard - SSL - SSL EV - Code Signing - S/MIME
31	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	309e97b6ccd8672842fa2059592920a8	rsaEncryption	2048 bits	SHA256withRSA	2017-10-23	2027-05-14	8446516F46817F287FD72A22EC82369B44D0FC90A42605B07CB6678BB9595076	7A142B1A5E16215183A13E840A862A437E293D9366921DB07EDB54F138AC0D78	- standard - SSL - SSL EV - Code Signing - S/MIME
32	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
33	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
34	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

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35	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	E81B01F9F5692CF3823C6FD35886542BF4EEFC5EA94F4E246E42C4A9FC5FE8AB	- standard - SSL - SSL EV - Code Signing - S/MIME
36	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	1A57EB460C3D8D6F55342ED8D5A5C3B13B0787A7543C012E77C7E1CE3BE11D6	6869242CD8AD2AC77BC028947BC7D0C4F6E9CBF0899D65709810D89F94B5D70D	- standard - SSL - SSL EV - Code Signing - S/MIME
37	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	b0a20c009da4b5eba644c79c228270c5	rsaEncryption	2048 bits	SHA256withRSA	2018-01-26	2027-05-20	A75F396D8C6214EF99C0A015FA6227787C3EBEE1F6AEA589033B28CA37B0F21	B5F62EC38131CD14B1FC95B877F4D210BE4BFACC7E6A6AA1422D89E34B7AC4C1	- standard - SSL - SSL EV - Code Signing - S/MIME
38	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	SHA256withRSA	2018-05-20	2027-05-20	5A125BD51863EBE5177ED55491E555E4288E6707D617881DB24115BF25A93713	18958D03AFB409687A1BC263860D0D735A25A004AB60E0F0E45D6333587437AE	- standard - SSL - SSL EV - Code Signing - S/MIME
39	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	SHA256withRSA	2018-05-20	2027-05-20	04F102C7AC0DABDD29F20BB462927515CD03C7B8744A692D7832B9C439974F96	EEDA15BA000B006EAD49A21BBE769F3BA6CE75C9249F0114D8DD882DFC0F2C1B	- 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
40	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	349bb144ae5611e99bf4345c7fc9aefc	rsaEncryption	2048 bits	SHA256withRSA	2018-04-17	2027-05-18	AA8D50CB360250233A4D3A647E5C9695ED8446E350F2AEFF7DA02B754660E09	6970E396621417DCEE315AAC28BB5EA3161F175020F7F4E9BA17DADE58DBB08D	- standard - SSL - SSL EV
41	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	05ed88d8088d11ebddd623963cbaed42	rsaEncryption	2048 bits	SHA256withRSA	2018-04-17	2027-05-18	C710CA27A5ACAC86755FF1355C8D4842050D19CD52AAE4A4E549323811CAAB82	F6BF88B2A8DCD4FEB4015984EC2F1427C8017D140CF41F22EE689E0D6718012F	- standard - SSL - SSL EV
42	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	07dded674e2a2c08c9de6666c971541f	rsaEncryption	2048 bits	SHA256withRSA	2018-04-17	2027-05-18	6DF9B7D0ADA7D00B781020DC65ECEC1112815240426B2B879C303DE3CBF4257	EA6963696750564A228B3EB88E0FD4304C5DA27A7AF92D1D4199357A50078315	- standard - SSL - SSL EV
43	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	101d422255e1fe416660c480177611	rsaEncryption	2048 bits	SHA256withRSA	2018-08-22	2027-05-02	F708359316E5FDEC3EE7EEDA5AB6D3CFBBF8FD6E00DCB64B9C364A4E1BE53AB	E67D18639367C5B29BF7A5683B56B0F0C23155C8FE9452BCFE51681436023742	- standard - SSL - SSL EV - Code Signing - S/MIME
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	f0d59415c6dec4f888f2837e606810f	rsaEncryption	2048 bits	SHA256withRSA	2018-08-22	2027-05-02	13818B0ED4C4C0EED409E02D3BC89B6CEBBA14B671488502FDF07321B339995E	EEF9066424C23508E9C65F84671B14E16DA1BEC358E75FC6382ECA070AE861BE	- 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
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	63e9b37a0fea72231484b67eed4ba9e3	rsaEncryption	2048 bits	SHA256withRSA	2018-08-22	2027-05-02	CB629A02C53555F25F5914183DEAB71D5C4ED4656BC12C38C46ABBA D226DC882	93B281BD81D83CF986659DFFD0AF57993B92E6E4614162539F750524CE11BBCB	- 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	d8f02e7002e2f53fa539ea253a264d3a	rsaEncryption	2048 bits	SHA256withRSA	2018-08-22	2027-05-02	1E34F5D6EC5BD1D5D7C599E1E8552611654750BB52B4F6752CBCD161D91DA2A6	E372221266A330DD13EB1388DFAAF1FAB11DF254B63385CB637BF8FB5FB675	- standard - SSL - SSL EV - Code Signing - S/MIME
47	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	9073d7674c9cba7bbe10706593dd7233	rsaEncryption	2048 bits	SHA256withRSA	2019-02-07	2027-05-21	CF52F65523268E4E4268B25D959FC1DB727EC284A0A8B0512628182F44B87A5	4D67237B2CFACFF3DDC83C2FF1C92A8E0A98A71BD04ED39F8AFF42AAF99371D	- standard - SSL - SSL EV
48	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	a51d3444bcdeb1f33240001bd58d2138	rsaEncryption	2048 bits	SHA256withRSA	2019-02-07	2027-05-21	600458F0CE293554234AC9395E0C3E3776FB65A42CB14DFE325DAAE5CE793F54	6C40D07F4705A5B4F04C6AECDC5A1BF5FD38D2B6CF2DB7F212CA251075BE125D	- standard - SSL - SSL EV
49	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	b3780c84db0d041b1cd66a40cb8d9573	rsaEncryption	2048 bits	SHA256withRSA	2019-02-07	2027-05-21	6D0129552FCFD93689048860A445C10BC8C7A972E5A12F5BE0490A7F75882C4F	EE09D49C7CF441840DA5158D0E70D4C6CAEB4FCCFE6758EE4CC45C71A287DF39	- standard - SSL - SSL EV

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50	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	69c0570d6e2146319ad1e5834e049dcc	rsaEncryption	2048 bits	SHA256withRSA	2019-06-12	2027-05-21	BADEF241FE1D335A824795ED281A1856FA6FB4D2	7EB445EA38A46A6411F0A12A0E16CD3D073E91B125679977041FFBCE83BE3C1A	- standard - SSL - SSL EV
51	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	13109bcd429eae881f09e215f2ded38	rsaEncryption	2048 bits	SHA256withRSA	2019-06-12	2027-05-21	B1C04671EFA88E0D41CA5F9B952A02EE2C62114B	C5453F7C147016A9AA0F5F4BB1D217DEBE1C2D368C53CF74D35F55C5233C498A	- standard - SSL - SSL EV
52	1	CN = OKCERT R4 OV 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	ec4e0eb6ab2a278a66cf3b0d619a9d82	rsaEncryption	2048 bits	SHA256withRSA	2019-06-12	2027-05-21	853218FF779AC99180D81B9117BA144002316A42	BCC3A54D7083116316CE03B9A40CA36F336F4839AC581862D4311A84F701514D	- standard - SSL - SSL EV
53	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	db3ae99fc6407d8daeef98cc77f8c13	rsaEncryption	2048 bits	SHA256withRSA	2019-07-16	2027-05-21	76B3B0CBF54E9121B695577B830FFC15B20A1C30	F6787FA8CAD7D2C279A0374BFB503807CC6ADCC7C23709273DD5A4047D1AEF78	- standard - SSL - SSL EV
54	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	2036943cbea08b692a296d66244064a2	rsaEncryption	2048 bits	SHA256withRSA	2019-07-16	2027-05-21	2CC610A7F414EC84193FB253EC98CB3CC9F75764	CC0B2512EE20280C36F30D57084ACB6B8636D94B481742E424335C7767E758C6	- standard - SSL - SSL EV

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
55	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	4e0d59e13a1a08eb0dae89e91b6750da	rsaEncryption	2048 bits	SHA256withRSA	2019-07-16	2027-05-21	B3FEDBE44995D0A100FB8569DD9ED20C9437B0CA	7FBF5DB4917639930076AAFF78FC91DDA0EFEEA86CAD38A18D98947D7CD36948	- standard - SSL - SSL EV
56	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	239c8d41dd60d04ea6a32fe004a9e85d	rsaEncryption	2048 bits	SHA256withRSA	2019-10-17	2034-10-17	4E08958E4BC323EBA33A18CAB836AFD6649912C9	1C4EEA3A47ABD122568EAB547E06B52111F7F388662C246C8ECBE2660B9F26F1	- standard - SSL - SSL EV
57	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	63b4fbe02028aa507d9293416ff4104f	id-ecPublicKey	384 bits	Sha384 ECDSA	2019-10-17	2034-10-17	1CE14E22497457E92BBF99E12A560B62DCA1E2A3	C7063A8DC668205E66153108FBE3BDBF6EDB6F8CE5F616A369BEF6324DCB6354	- standard - SSL - SSL EV
58	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	cb046b5804e8f3da024bcfec24410d08	rsaEncryption	2048 bits	SHA256withRSA	2019-12-20	2024-12-20	62741D646D8094D6DA C3825FA297F6307FE5C4C9	A5764DFD0454AD3A06428B907DB8AA436DA6317209EAFD61DD42E56AE77F9B13	- standard - SSL - SSL EV
59	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	b8f9924feedb725003e015cf689f8bf6	rsaEncryption	2048 bits	SHA256withRSA	2019-12-20	2024-12-20	6B55C9822073E0352524E1485754B079254B79A4	DAFD2506A7E917C126E5904479439D7795087F04FA7BBE614796727B9A161D6F	- standard - SSL - SSL EV

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 = 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	c3e00f9f002ec559ba02c4a5f2600c5e	rsaEncryption	2048 bits	SHA256withRSA	2020-01-30	2027-05-20	B1C04671EFA88E0D41CA5F9B952A02EE2C62114B	309A7823BB3D1DDF44A573EC0BF9FD5166625FDE73776184C62212B4C0B4E94E	- standard - SSL - SSL EV
61	1	CN=XinChaCha Trust SSL Domain Validated O = Beijing Xinchacha Credit Management Co., Ltd. C = CN	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	56814be297e30ceb2e65988547af504a	rsaEncryption	2048 bits	SHA256withRSA	2020-05-18	2025-05-18	786c05c36f01ad5cd7d2ce8a970f72e906f2554d	4D45039EECCA114D64822A0AA80944D66E08FAEE62B1D253F140298769F227B4	- standard - SSL - SL EV
62	1	CN=XinChaCha Trust SSL Organization Validated O = Beijing Xinchacha Credit Management Co., Ltd. C = CN	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	0a05471ba855d169cf84f3366ceb09ec	rsaEncryption	2048 bits	SHA256withRSA	2020-05-18	2025-05-18	203283bf97547911758cfa46730550f40e7d3c4	8E2D07BFC591B14FA314686E1CC8D9BB5F6F8D091C0595194AA2C7585B991887	- standard - SSL - SSL EV
63	1	CN=XinChaCha Trust SSL Extended Validated O = Beijing Xinchacha Credit Management Co., Ltd. C = CN	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	42be50b1a6753c36409a037888a60eab	rsaEncryption	2048 bits	SHA256withRSA	2020-05-18	2025-05-18	1ea4b2fd1806ae3f3cfc8e381b670974dc7d01	FE7340370D595A39FFE10DCE2197447CE67C98BE28F0330C8FC85DD03212486D	- standard - SSL - SSL EV
64	1	CN= ROOT CA G3 O=Root Networks, LLC; C=US	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	00C3E00F9F002EC559BA02C4A5F2600C5F	rsaEncryption	2048 bits	SHA256withRSA	2020-09-09	2028-09-09	ba305f3267d35ffddd096415f3d658d93c38aa115fda90366baeac2765c5f5	6C834388F2A0D06949C63EFCF30D77782E25A8250135939E54960214540EEA45	- standard - SSL - SSL EV Revoked 2023-05-22 10:21:34 UTC

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
65	1	CN= Yekta Domain Validated SSL CA 1 O = Pardazeshgaran Shahr Hooshmand Yekta Co. C = IR	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	2635b3c efefd15d 42b2248 6c70946 aa8	rsaEncryption	2048 bits	SHA256with RSA	2021-01-20	2027-05-31	ad556fe9503 876ccb97ae b7a6c6c226 b81b1061c	3818995B28A090D83A61667117D50C77C1F1DC7A137680F2E55CE755314F2D0A	- standard - SSL - SSL EV
66	1	CN= Yekta Organization Validated SSL CA 1 O = Pardazeshgaran Shahr Hooshmand Yekta Co. C = IR	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	2f60421d a95dcb2 13e5ff64 7b0b9a8 36	rsaEncryption	2048 bits	SHA256with RSA	2021-01-20	2027-05-31	86ed7f8a525 80169a6311 e36566b1a2 e6aa742b6	17F08A4F5DC38C49BB17DCD64B2CE742CFEAB99BE5B67DBC14C2E896771C60E1	- standard - SSL - SSL EV
67	1	CN=United Trust; O=United SSL Deutschland GmbH; C=DE	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	4BE92A9 0278495 1DC13A C6CE37 D230FE	rsaEncryption	2048 bits	SHA256with RSA	2021-02-24	2027-05-31	5D9BB6215 EC56915549 D083362FC 48460EE703 3BB10D831 C7CC233F0 63952D37	68FC6237C4B8722A1BDFB9583F728840A18BFCC3D6C6E1D6B0A307624577DBD0	- standard - SSL - SSL EV
68	1	CN=Nyatwork; O=Nyatwork Communication Ltd; C=CA	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	00FB512 F8FE205 EA41401 929C6D3 DFEBDF	rsaEncryption	2048 bits	SHA256with RSA	2021-10-19	2026-10-19	A348E3C73 6C8B7C8E3 F33693E881 4EC390777 D402DD46A 4D85F355A 8CEE00156	2A6286C3AC09AE6CD3748B24A33F30FB93DA991F883F7002824B14A914955855	- standard - SSL - SSL EV

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
69	1	CN= Xcc Trust OV SSL CA C=CN,O=Beijing Xinchacha Credit Management Co., Ltd.,	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	F244082 DABA90 DA58C72 E9F29A9 340AE	rsaEncryption	2048 bits	SHA256with RSA	2022-07-01	2027-06-30	FAA0CBC2 C75D81B52 09207200BB 63B703B090 E55	2628D65E94D62E57B6344C31B22920EDA316D9BE68EEF5EACCC7362206B7DEAFA	- standard - SSL - SSL EV
70	1	CN= Xcc Trust DV SSL CA, C=CN,O=Beijing Xinchacha Credit Management Co., Ltd.,	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	C2B755D B93BD47 2C18D35 10BD8EE A0DE	rsaEncryption	2048 bits	SHA256with RSA	2022-07-01	2027-06-30	A1438E0034 09E57B3533 AE758904F2 32610FA8E7	B81D7010D7E495179BB5BB504223EF2EEF3056557EE3924533718169F1A670C8	- standard - SSL - SSL EV
71	1	CN= ANTIC DV CA C=CM,O=National Agency for Information and Communication Technologies	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	D32C455 6DD4AC FE0284D 1368DC8 3757F	rsaEncryption	2048 bits	SHA256with RSA	2022-07-28	2027-05-31	4D4D1A5D4 5929128557 0ADDA9657 E61FD648D 85A	E53A69193E22FAECC833F80631BE15E020A04C20BB679FD351F0CB95C0089E50	- standard - SSL - SSL EV
72	1	CN= SSL Secure Site CA C=GB,O=SSL Limited,	CN = Certum Trusted Network CA OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	670033A EB205D5 417F34D DDC3E9 4B562	rsaEncryption	2048 bits	SHA256with RSA	2022-09-29	2027-09-28	77E894CD0 062EE9AA2 359E084824 18B31E56E B74	D859828E4E8C35ECC38E415E1D0CFFD4A9DFC116205401D1298FC13347DC0187	- standard - SSL - SSL EV
73	1	CN= netartSSL C=PL,O=netart.com sp. z o.o.,	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	D32C455 6DD4AC FE0284D 1368DC8 37580	rsaEncryption	2048 bits	SHA256with RSA	2023-01-23	2027-05-20	63C436A4A 1748C52898 76ADC5962 0CC675CEB 5BC	E21A784343F763F5EFE894DDC81E0B5B92A89DF65056FCA8C49AD4414CD74EB4	- standard - SSL - SSL EV Revoked 2023-05-10 09:40:43 UTC

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
74	1	CN= Sooma Digital Trust Validation, C=PT,O=Sooma.com Web Services Lda,	CN = Certum Global Services CA SHA2 OU = Certum Certification Authority O = Unizeto Technologies S.A. C = PL	40103C0 09518C0 E91C136 1E37A3B 95AA	rsaEncryption	2048 bits	SHA256with RSA	2023-01-23	2027-05-20	9FE3F487C 2D394D304 10D53A571 D7822D938 465F	CF8F3E3A993C9D020068B7AB200AC94200748731822FD5B32767226A2EE4EFA5	- standard - SSL - SSL EV
75	1	CN= cyber_Folks O= cyber_Folks S.A., C= PL	CN=Certum Global Services CA SHA2 O=Unizeto Technologies S.A. OU=Certum Certification Authority C=PL	D32C455 6DD4AC FE0284D 1368DC8 37582	rsaEncryption	2048 bits	sha256WithR SAEncryption	2023-03-16	2027-05-20	83F0DAD05 C24157EB0 F359572254 65C5FA134 2F8	2E198C227F93F9CF96F7B8A1986F659735502C956407DB36F0D4A3D601F42472	- standard - SSL - SSL EV Revoked 2023-05-15 08:11:26 UTC
76	1	CN=netartSSL O=netart.com sp. z o.o., C=PL	CN=Certum Global Services CA SHA2 O=Unizeto Technologies S.A. OU=Certum Certification Authority C=PL	4566BBE A77B9B4 0DC6867 FECCD1 58C99	rsaEncryption	2048 bits	sha256WithR SAEncryption	2023-05-10	2027-05-20	6A8F32FEB 9D200BDF0 7B64296927 4DA90402C AC2	5A86CB297E37CFF1DB01FEA8E14FE4C5E054F8B228E976E4A782E3AEA723FC1B	- standard - SSL - SSL EV
77	1	CN=cyber_Folks O=cyber_Folks S.A. C=PL	CN=Certum Global Services CA SHA2 O=Unizeto Technologies S.A. OU=Certum Certification Authority C=PL	8C353DD 1E4236E 8D51A3A D574E26 2090	rsaEncryption	2048 bits	sha256WithR SAEncryption	2023-05-15	2027-05-20	05DDB1C44 43BE1A282 5372E2765D A914F924A D45	35F8CC89610508BC16BD332DA543964698C72D67895FEB4E068BEA5E06686457	- standard - SSL - SSL EV
78	1	CN=Root Networks CA O=Root Networks, LLC C=US	CN=Certum Trusted Network CA O=Unizeto Technologies S.A. OU=Certum Certification Authority C=PL	F9C8E25 31E1B76 89499D5 C276916 DF97	rsaEncryption	2048 bits	sha256WithR SAEncryption	2023-05-15	2023-09-09	1806CD5DD 79B56BA02 E6232E4D7 C1AFD1DF0 C9CB	BF64C06D1D48D977A0BC2DFC917E8E0D6342BD11590471636D7A0806CC8DF003	- standard - SSL - SSL EV

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
79	1	CN=Nya Labs CA O=NYA LABS LLC C=US	CN=Certum Global Services CA SHA2 O=Unizeto Technologies S.A., OU=Certum Certification Authority C=PL	8B794BA FFB4350 1C11D1A 3D583EC 4CFA	rsaEncryption	2048 bits	sha256WithR SAEncryption	2023-11-02	2027-05-22	AA92F53F7 98D5D712C 0AFFACD8A 6F97D3C83 5C57	7E0A8C9844D0F99EC84307483F2E331980749F88A7185649D4D99FA3C3589E52	- standard - SSL - SSL EV
80	1	CN=CFCA DV RSA CA O=China Financial Certification Authority C=CN	CN=Certum Global Services CA SHA2 O=Unizeto Technologies S.A., OU=Certum Certification Authority C=PL	BA750BA DFB4AF BC52010 7CE31AF 7AB58	rsaEncryption	2048 bits	sha256WithR SAEncryption	2023-12-05	2027-05-23	7788AD9309 E10F72DFC 2658686845 9E9F986D1 6F	ED124F475AAF4D98D1E618D3BE32F003B3CBB873C7D15B0F1A0089739CB4E4CC	- standard - SSL - SSL EV
81	1	CN=CFCA EV RSA CA O=China Financial Certification Authority C=CN	CN=Certum Global Services CA SHA2 O=Unizeto Technologies S.A., OU=Certum Certification Authority C=PL	B3F601D B6BAAE 814497D 3FB59E1 216E5	rsaEncryption	2048 bits	sha256WithR SAEncryption	2023-12-05	2027-05-23	BBBABA00F 4D0AB06E6 0FB87BF0B 4180FA3D5 15E8	98380E437E1A46E6AC2AA64D7BE6D71F2969E510ACAF5D37846CF12B8AFE7B3E	- standard - SSL - SSL EV
82	1	CN=CFCA OV RSA CA O=China Financial Certification Authority C=CN	CN=Certum Global Services CA SHA2 O=Unizeto Technologies S.A., OU=Certum Certification Authority C=PL	D743806 18371EA 603EB43 2409C2B 8DDA	rsaEncryption	2048 bits	sha256WithR SAEncryption	2023-12-05	2027-05-23	32FC686090 2517C79B79 FCC942770 710DD240E 52	076EA7358389410DF85D911D251B9A582C5E6F684E0F046ED430187F0533AEFC	- standard - SSL - SSL EV
83	1	CN=CFCA DV ECC CA O=China Financial Certification Authority C=CN	CN=Certum Global Services CA SHA2 O=Unizeto Technologies S.A., OU=Certum Certification Authority C=PL	2756495 F96F59F 3DCFD0 2ED5B72 DA76B	rsaEncryption	2048 bits	sha256WithR SAEncryption	2023-12-05	2027-05-23	C9F74AFE5 EE4134B0D A4919EDC5 B50C75A53 7612	690DD5AB690009813339BC668C6D3839144F34E17E5BE7F0958879E9A9E057FB	- standard - SSL - SSL EV

CA #	CERT. #	SUBJECT	ISSUER	SERIAL NUMBER	KEY ALGORITHM	KEY SIZE	DIGEST ALGORITHM	NOT BEFORE	NOT AFTER	SUBJECT KEY IDENTIFIER	SHA-256 FINGERPRINT	OTHER INFORMATION
84	1	CN=CFCA OV ECC CA O=China Financial Certification Authority C=CN	CN=Certum Global Services CA SHA2 O=Unizeto Technologies S.A. OU=Certum Certification Authority C=PL	FA1CB08 C7144FB D63A0A0 33CEAE D4634	rsaEncryption	2048 bits	sha256WithR SAEncryption	2023-12-05	2027-05-23	63EF0430A4 746EE144E 1EC3E38F1 211F7F4211 71	A92BF1FDFB2DA2A1CE60E7440992E53A410CE2FAA8AB71EAD7444F2486E5FA9F	- standard - SSL - SSL EV
85	1	CN=CFCA EV ECC CA O=China Financial Certification Authority C=CN	CN=Certum Global Services CA SHA2 O=Unizeto Technologies S.A. OU=Certum Certification Authority C=PL	CC081BF 16779E9 CBEFE2 E0190EF 51EE6	rsaEncryption	2048 bits	sha256WithR SAEncryption	2023-12-05	2027-05-23	213933BE14 F3D0F6CFA 856077310E A5C75ED49 37	D65810FFD7BF9A0E5779DF6753BA3894379F850B1B743AEC55786F98AC29011F	- standard - SSL - SSL EV
86	1	CN=vTrus DV SSL CA G2O=iTrusChina Co., Ltd. C=CN	CN=Certum Global Services CA SHA2 O=Unizeto Technologies S.A. OU=Certum Certification Authority C=PL	E981765 6FCFF3E BE0FF6F 9FCCB37 B592	rsaEncryption	2048 bits	sha256WithR SAEncryption	2023-12-07	2027-05-25	4A5FC3B35 515AE2C4D 5CAFD598C 9BC9D8613 26E2	D7A43AAB5B59F58CB68CC01CF838A392EE913FF330FE7C3309EDA30B84541D07	- standard - SSL - SSL EV
87	1	CN=vTrus OV SSL CA G2 O=iTrusChina Co., Ltd. C=CN	CN=Certum Global Services CA SHA2 O=Unizeto Technologies S.A. OU=Certum Certification Authority C=PL	61EF741 269E462 001863A 280073D FC45	rsaEncryption	2048 bits	sha256WithR SAEncryption	2023-12-07	2027-05-25	5F4C6A839 F36AE1D2B E54659CDC 92C395F62 D659	3296EB060C887E8EC0E59903E9CC8D5F6302EE8FABA95620AE5DE2364333F753	- standard - SSL - SSL EV
88	1	CN=LH.pl CA O=LH.pl Sp. z o.o. C=PL	CN=Certum Global Services CA SHA2 O=Unizeto Technologies S.A. OU=Certum Certification Authority C=PL	833BCA D443EE6 AD80D38 53BAD3 D2EDC4	rsaEncryption	2048 bits	sha256WithR SAEncryption	2024-01-02	2027-05-11	DD86D4076 1905209C84 D011AC383 5D59EACE6 8C2	E4B2A0736F95950D11B82C9E6C32031E1420E06A66493E665F128AE499498FAB	- standard - SSL - SSL EV

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 CAO 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 = UCA Global G2 Root O = UniTrust C = CN	CN = Certum Trusted Network CA, = Unizeto Technologies S.A., OU = Certum Certification Authority, C = PL	00bb022bf9ab4bf20bf4ed2016da849fbe	rsaEncryption	4096 bits	SHA256withRSA	2020-02-21	2025-02-21	81c48ccccf5e430ffa50c085f8c1567217401dfd	C1AFC65B1E813B0E6146E6AA5341681272ABE9A38D59F7BD1B27B729834A0D9C	- standard - SSL - SSL EV Revoked 2023-04-28 15:00:39 UTC

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 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
7	1	CN = UCA Global G2 Root O=UniTrust C=CN	CN = Certum Trusted Network CA O = Unizeto Technologies S.A., OU = Certum Certification Authority C = PL	E5E470E83BF9A012394C7313ACA25593	rsaEncryption	4096 bits	SHA256withRSA	2023-03-08	2025-02-21	81C48CCCF5E430FFA50C085F8C1567217401D FDF	3DD69C5BE170F943F804D1D31FE8F916C0C0226CDDD7AEA9AA9A0CDFD3474361	- standard - SSL - SSL EV
8	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	8CFB1C75BC02D39F4E2E48D9F96054AAC4B34FFA	FB13890C7AB14FF7B94B2714503E31123BFDD340FC4D979743166E0469B47A88	- standard - SSL - SSL EV - Code Signing - S/MIME
9	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
10	1	CN = UCA Global G2 Root O = UniTrust C = CN	CN = Certum Trusted Network CA O = Unizeto Technologies S.A., OU = Certum Certification Authority C = PL	BCAFE9189509E612F8252B74C0398792	rsaEncryption	4096 bits	sha256WithRSAEncryption	2024-01-08	2029-01-06	81C48CCCF5E430FFA50C085F8C1567217401D FDF	BFA95C5DF164B659FA32F6D10564D7170DDE661A853A782E6AB63639433BCB41	- standard - SSL - SSL EV
11	1	CN = UCA Global G2 Root O = UniTrust C = CN	CN = Certum Trusted Network CA O = Unizeto Technologies S.A., OU = Certum Certification Authority C = PL	1D8A6FC17A0C81BCA26C435AEFA50078	rsaEncryption	4096 bits	sha256WithRSAEncryption	2024-01-08	2029-01-06	81C48CCCF5E430FFA50C085F8C1567217401D FDF	BB61408AED9F530B2EC0545E53BA2C8EBEAA57D9976447DB1663CED4600CD6B7	- standard - SSL - SSL EV

Attachment B: List of Bugzilla issues noted during the period under review.

Mozilla Bug # Link	Description	Date Reported	Date Resolved
Bugzilla link - 1815355	<p>Baseline Requirements Section 7.6.1.3 A Certificate issued to a Subordinate CA is not an Affiliate of the Issuing CA: (...) 3. MUST NOT contain the anyPolicy (2.5.29.32.0)</p> <p>Third party reported that EV enabled root “Certum Trusted Network CA” cross-signed not EV enabled root “SSL.com Root Certification Authority RSA”. Therefore, there was a risk of issuing EV certificates by the root CA that do not have EV audit. ADS (Certum) performed investigation together with SSL.com (another involved CA) and concluded that:</p> <ul style="list-style-type: none"> • Cross-certificate was issued on 2018-09-11 • Before 2022-07-01 it was allowed to not have EV TLS audit for EV TLS capable CAs if they were not issuing EV certificates. Currently, according to MRSP (Mozilla Root Store Policy) v2.8, all CAs capable of issuing EV certificates must have EV audit report • Root CA “SSL.com Root Certification Authority RSA” confirmed that it never issued EV certificate from non-EV hierarchy as of date of check <p>Please note the bug has been reported on 2023-02-06 and described in the Previous Year audit. As of 2023-04-11 the remediation plan was approved by the reporter. The bug was closed on 2023-06-08.</p>	2023-02-06	2023-06-08
Bugzilla link - 1823040	<p>EV Baseline Requirements Section 9.3.4 1. Certificates issued to Subordinate CAs that are not controlled by the issuing CA MUST contain one or more policy identifiers defined by the issuing CA that explicitly identify the EV Policies that are implemented by the Subordinate CA.</p> <p>Baseline Requirements Section 7.1.6.3 A Certificate issued to a Subordinate CA that is not an Affiliate of the Issuing CA: (...) 3. MUST NOT contain the anyPolicy identifier (2.5.29.32.0)</p> <p>ADS (Certum) identified it generated a cross-certificate with incorrect "anyPolicy" identifier in the Certificate Policies extension issued for Root CA "UCA Global G2 Root" owned by Shanghai Electronic Certification Authority Co., Ltd. (SHECA). ADS (Certum) together with SHECA decided to revoke the cross-certificate. New cross-certificate has been issued to provide the additional technical protection for the community.</p>	2023-03-17	2023-05-19

Bugzilla link - 1825734	<p>Baseline Requirements Section 4.9.1.2 (...) The Issuing CA SHALL revoke a Subordinate CA Certificate within seven (7) days.</p> <p>The issue has been reported by ADS (Certum), as it did not meet the required 7-days period to revoke the cross-certificate issued for Root CA "UCA Global G2 Root" owned by Shanghai Electronic Certification Authority Co., Ltd. (SHECA) from the previous (1823040) bug. ADS (Certum) together with SHECA decided to revoke the cross-certificate. Revoking the intermediate certificate had to be delayed, as many end customers needed time to prepare. New cross-certificate has been issued to provide the additional technical protection for the community. Provision in the contract with SHECA has been changed, and other partners had been notified that if there is any reason for revocation, the time limit for certificate revocation will be 7 days.</p>	2023-03-31	2023-06-01
Bugzilla link - 1826363	<p>EV Baseline Requirements Section 9.3.4 1. Certificates issued to Subordinate CAs that are not controlled by the issuing CA MUST contain one or more policy identifiers defined by the issuing CA that explicitly identify the EV Policies that are implemented by the Subordinate CA.</p> <p>Baseline Requirements Section 7.1.6.3 A Certificate issued to a Subordinate CA that is not an Affiliate of the Issuing CA: (...) <ol style="list-style-type: none"> MUST NOT contain the anyPolicy identifier (2.5.29.32.0) </p> <p>The issue has been reported by ADS (Certum) for the cross-certificate with wrong "anyPolicy" identifier in the Certificate Policies extension issued for SSL.com. ADS (Certum) performed the risk analysis and decided not to revoke the cross-certificate, because of its short remaining validity period and the high number of end customers, which would have to be moved to a new cross-certificate in the case of reissuance. As part of corrective actions, ADS (Certum) changed the provision in the contracts stating that there are 7 days to revoke a cross-certificate, regardless of the reason of the revocation.</p>	2023-04-04	2023-06-08
Bugzilla link - 1832093	<p>Baseline Requirements Section 7.1.2 (...) serialNumber MUST be a non-sequential number.</p> <p>The issue has been reported by ADS (Certum) for the insufficient entropy of serial numbers for three of the intermediate certificates. The issue was found during a periodic self-audit. The problem affected only CA certificates which were generated offline with a dedicated software using a predefined template profile. ADS (Certum) revoked three subordinate certificates and updated their systems to prevent additional issuance of CA certificates with sequential serial numbers.</p>	2023-05-09	2023-06-02

Bugzilla link - 1865080	<p>Baseline Requirements Section 7.1.4.2 (...) CAs that include attributes in the Certificate subject field that are listed in the table below SHALL encode those attributes in the relative order as they appear in the table and follow the specified encoding requirements for the attribute.</p> <p>The issue has been reported by ADS (Certum) about 138 EV TLS certificates with incorrect relative ordering of entity attributes. The problem has been identified during a weekly Bugzilla review. ADS (Certum) revoked all certificates affected by this problem. Additionally, ADS (Certum) changed the Subject attribute within the software used for certificate issuance.</p>	2023-11-16	2024-01-04
Bugzilla link - 1871393	<p>Baseline Requirements Section 4.9.1.1 (...) the CA SHOULD revoke a certificate within 24 hours and MUST revoke a Certificate within 5 days.</p> <p>The issue has been reported by ADS (Certum) on revocation time concerning number of EV TLS certificates with incorrect relative ordering of entity attributes. The problem has been identified during a discussion on Bugzilla and concerned the previous (1865080) bug. ADS (Certum) interpreted the requirement for revocation based on counting full five days. While the certificates had been revoked within five days, they have not been revoked in 120 hours. ADS (Certum) changed internal instructions from 5 days to 120 hours for revocation.</p>	2023-12-21	2023-12-29