

Standard Audit Attestation for
Microsec Micro Software Engineering & Consulting
Private Limited Company by Shares
as a Qualified Trusted Service Provider

Reference: HUNG-AA-009-SMIME-2024

“Budapest, 10 January, 2024”

To whom it may concern,

This is to confirm that “HUNGUARD Kft.” has audited the CAs of the Microsec Micro Software Engineering & Consulting Private Limited Company by Shares without critical findings.

This present Audit Attestation Letter is registered under the unique identifier number HUNG-AA-009-SMIME-2024 and covers multiple Root_CAs but only the S/MIME related services. It consists of 14 pages.

Kindly find here below the details accordingly.

In case of any question, please contact:

HUNGUARD Kft.,
6 Kékgolyó Street, 1123 Budapest, Hungary
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With best regards,

Zsolt Attila Endrődi
reviewer

Tibor Némethvári
Lead Auditor

General audit information

Identification of the conformity assessment body (CAB) and assessment organization acting as ETSI auditor

- CAB HUNGUARD Informatics and IT R&D and General Service Provider Ltd., 6 Kékgolyó str. Budapest 1123 Hungary, registered under 01 09 069295
- Accredited by National Accreditation Authority (Hungary) under registration NAH-6-0048/2018¹ for the certification of trust services according to “EN ISO/IEC 17065:2013” and ETSI EN 319 403-1 V2.3.1 (2020-06)”.
- Insurance Carrier (BRG section 8.2):
Generali Biztosító Zrt.
- Third-party affiliate audit firms involved in the audit:
None.

Identification and qualification of the audit team

- Number of team members: 2
- Academic qualifications of team members:
All team members have formal academic qualifications or professional training or extensive experience indicating general capability to carry out audits based on the knowledge given below and at least four years full time practical workplace experience in information technology, of which at least two years have been in a role or function relating to relevant trust services, public key infrastructure, information security including risk assessment/management, network security and physical security.
- Additional competences of team members:
- All team members have knowledge of
 - 1) audit principles, practices and techniques in the field of CA/TSP audits gained in a training course of at least five days;
 - 2) the issues related to various areas of trust services, public key infrastructure, information security including risk assessment/management, network security and physical security;
 - 3) the applicable standards, publicly available specifications and regulatory requirements for CA/TSPs and other relevant publicly available specifications including standards for IT product evaluation; and
 - 4) the Conformity Assessment Body's processes.Furthermore, all team members have language skills appropriate for all organizational levels within the CA/TSP organization; note-taking, report-writing, presentation, and interviewing skills; and relevant personal attributes: objective, mature, discerning, analytical, persistent and realistic.
- Professional training of team members:
See “Additional competences of team members” above. Apart from that are all team members trained to demonstrate adequate competence in:
 - a) knowledge of the CA/TSP standards and other relevant publicly available specifications;
 - b) understanding functioning of trust services and information security including network security issues;
 - c) understanding of risk assessment and risk management from the business perspective;

¹ https://nah.gov.hu/admin/staticmedia/Reszletezo_okiratok/RO3-NAH-220217-6-0048-2018-V2-BNN-10398221-a.pdf

<ul style="list-style-type: none"> d) technical knowledge of the activity to be audited; e) general knowledge of regulatory requirements relevant to TSPs; and f) knowledge of security policies and controls. <ul style="list-style-type: none"> • Types of professional experience and practical audit experience: The CAB ensures, that its personnel performing audits maintains competence on the basis of appropriate education, training or experience; that all relevant experience is current and prior to assuming responsibility for performing as an auditor, the candidate has gained experience in the entire process of CA/TSP auditing. This experience shall have been gained by participating under supervision of lead auditors in a minimum of four TSP audits for a total of at least 20 days, including documentation review, on-site audit and audit reporting. • Additional qualification and experience Lead Auditor: On top of what is required for team members (see above), the Lead Auditor <ul style="list-style-type: none"> a) has acted as auditor in at least three complete TSP audits; b) has adequate knowledge and attributes to manage the audit process; and c) has the competence to communicate effectively, both orally and in writing. • Special skills or qualifications employed throughout audit: National security clearance up to top secret level • Special Credentials, Designations, or Certifications: All members are qualified and registered assessors within the accredited CAB. All members have CISA certificate • Auditors code of conduct incl. independence statement: Code of Conduct as of Annex A, ETSI EN 319 403 or ETSI EN 319 403-1 respectively.
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Identification and qualification of the reviewer performing audit quality management
<ul style="list-style-type: none"> • Number of Reviewers/Audit Quality Managers involved independent from the audit team: 1 • The reviewer fulfils the requirements as described for the Audit Team Members above and has acted as an auditor in at least three complete CA/TSP audits.

Identification of the CA / Trust Service Provider (TSP):	MICROSEC Micro Software Engineering & Consulting Private Limited Company by Shares, Ángel Sanz Briz út 13, 1033 Budapest, Hungary, registered under 01-10-047218
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Type of audit:	<input type="checkbox"/> Point in time audit <input checked="" type="checkbox"/> Period of time, after 60 days of CA operation <input type="checkbox"/> Period of time, full audit
Audit period covered for all policies:	2023-08-10 to 2023-12-19
Point in time date:	none, as audit was a period of time audit
Audit dates:	2023-10-16 (on site) 2023-12-19 (document review)
Audit location:	Facility 1 in Budapest: Ángel Sanz Briz út 13, 1033 Budapest, Hungary. Note that this data centre of the organisation, although located in the same place, has a different postal address: Záhony utca 7, 1031 Budapest, Hungary

	Facility 2 in Budapest: T-Systems Cloud & Data Center – Asztalos Sándor út 13, 1087 Budapest, Hungary
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Root 1: e-Szigno Root CA 2017

Standards considered:	<p>European Standards:</p> <ul style="list-style-type: none">• ETSI EN 319 411-2 V2.4.1 (2021-11)• ETSI EN 319 411-1 V1.3.1 (2021-05)• ETSI EN 319 401 V2.3.1 (2021-05) <p>CA Browser Forum Requirements:</p> <ul style="list-style-type: none">• Baseline Requirements for the Issuance and Management of Publicly-Trusted S/MIME Certificates, version 1.0.1 <p>For the Trust Service Provider Conformity Assessment:</p> <ul style="list-style-type: none">• ETSI EN 319 403-1 V2.3.1 (2020-06)
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The audit was based on the following policy and practice statement documents of the CA / TSP:

1. e-Szignó Certification Authority, Unified Certificate Policies, version: 3.11, Date of effect: 2023-12-19
2. e-Szignó Certification Authority, Unified Certification Practice Statement, version: 3.11, Date of effect: 2023-12-19
3. e-Szignó Certification Authority, eIDAS conform Non-Qualified Certificate for Electronic Signature Certificate Policies, version: 3.11, Date of effect: 2023-12-19
4. e-Szignó Certification Authority, eIDAS conform Non-Qualified Certificate for Electronic Signature Certification Practice Statement, version: 3.11, Date of effect: 2023-12-19
5. e-Szignó Certification Authority, eIDAS conform Non-Qualified Certificate for Electronic Signature Disclosure Statement, version: 3.11, Date of effect: 2023-12-19
6. e-Szignó Certification Authority, eIDAS conform Qualified Certificate for Electronic Signature, Certificate Policies, version: 3.11, Date of effect: 2023-12-19
7. e-Szignó Certification Authority, eIDAS conform Qualified Certificate for Electronic Signature Certification Practice Statement, version: 3.11, Date of effect: 2023-12-19
8. e-Szignó Certification Authority, eIDAS conform Qualified Certificate for Electronic Signature Disclosure Statement, version: 3.11, Date of effect: 2023-12-19
9. e-Szignó Certification Authority, eIDAS conform Non-Qualified Certificate for Electronic Seal Certificate Policies, version: 3.11, Date of effect: 2023-12-19
10. e-Szignó Certification Authority, eIDAS conform Non-Qualified Certificate for Electronic Seal Certification Practice Statement, version: 3.11, Date of effect: 2023-12-19
11. e-Szignó Certification Authority, eIDAS conform Non-Qualified Certificate for Electronic Seal Disclosure Statement, version: 3.11, Date of effect: 2023-12-19
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13. e-Szignó Certification Authority, eIDAS conform Qualified Certificate for Electronic Seal Certification Practice Statement, version: 3.11, Date of effect: 2023-12-19
14. e-Szignó Certification Authority, eIDAS conform Qualified Certificate for Electronic Seal Disclosure Statement, version 3.11, Date of effect: 2023-12-19
15. e-Szignó Certification Authority, Non eIDAS covered Certificate, Certificate Policies, version: 3.11, Date of effect: 2023-12-19
16. e-Szignó Certification Authority, Non eIDAS covered Certificates Certification Practice Statement, version: 3.11, Date of effect: 2023-12-19

In the following areas, non-conformities have been identified throughout the audit:

Findings with regard to ETSI EN 319 401:

None.

Findings with regard to ETSI EN 319 411-1:

None.

Findings with regard to ETSI EN 319 411-2:

None.

All non-conformities have been closed before the issuance of this attestation.

To the best of our knowledge, no incidents have occurred within this Root-CA's hierarchy during the audited period.

Distinguished Name	SHA-256 fingerprint	Applied policy
e-Szigno Root CA 2017 C=HU/L=Budapest/O=Microsec Ltd./2.5.4.97=VATHU-23584497/CN=e-Szigno Root CA 2017	BEB00B30839B9BC32C32E4447905950641F26421B15ED089198B518AE2EA1B99	ETSI EN 319 411-1 V1.3.1, LCP, NCP, NCP+, OVCP, DVCP, IVCP, EVCP ETSI EN 319 411-2 V2.4.1, QCP-I, QCP-I-qscd, QCP-n, QCP-n-qscd and QEVCP-w of ETSI EN 319 421 V1.1.1, BTSP

Table 1: Root-CA 1 in scope of the audit

The TSP named the Sub-CAs that have been issued by the aforementioned Root-CA, that are listed in the following table and that have been covered in this audit.

Distinguished Name	SHA-256 fingerprint	Applied policy
/C=HU/L=Budapest/O=Microsec Ltd./2.5.4.97=VATHU-23584497/CN=e-Szigno Class2 CA 2017	42DC827F46FB5E85DFFAE47D3C690F501ECE25D575D597A50D8F878FA42AFCEA	ETSI EN 319 411-1 V1.3.1, LCP
/C=HU/L=Budapest/O=Microsec Ltd./2.5.4.97=VATHU-23584497/CN=e-Szigno Class3 CA 2017	4F83842F1F04AB1E04D4D8E751666FCA82E5191CAFC24062BFD1FE77C02CA4B4	ETSI EN 319 411-1 V1.3.1, NCP, NCP+
/C=HU/L=Budapest/O=Microsec Ltd./2.5.4.97=VATHU-23584497/CN=e-Szigno Pseudonymous CA 2017	6A6F2FA13B2D9DBBB409802002D3370672760A2178D9B8D5694D660474231FA4	ETSI EN 319 411-1 V1.3.1, LCP, NCP, NCP+
/C=HU/L=Budapest/O=Microsec Ltd./2.5.4.97=VATHU-23584497/CN=e-Szigno Qualified CA 2017	5ABE5818F6D02F05106C6C355540E1BE217C2354B535CF2507BF8515E1A6044A	ETSI EN 319 411-2 V2.4.1, QCP-n-qscd
/C=HU/L=Budapest/O=Microsec Ltd./2.5.4.97=VATHU-23584497/CN=e-Szigno Qualified Organization CA 2017	12EA26F6EEEFEC76AB8592545403AB88515B00E275D9888713407A86FC5C7FD7	ETSI EN 319 411-2 V2.4.1, QCP-I-qscd
/C=HU/L=Budapest/O=Microsec Ltd./2.5.4.97=VATHU-23584497/CN=e-Szigno Qualified Pseudonymous CA 2017	1648CE4AB1BB65C485CB2236C768FABB865147D426915B92AFBCA81E9B2EE3BC	ETSI EN 319 411-2 V2.4.1, QCP-n
/C=HU/L=Budapest/O=Microsec Ltd./2.5.4.97=VATHU-23584497/CN=e-Szigno Qualified QCP CA 2017	6081BEE5B0DF191AC4E265AC0F6F7899F078B8C89F06055AE166AF91DF70D6E0	ETSI EN 319 411-2 V2.4.1, QCP-I-NCP+, QCP-n-NCP+, QCP-I, QCP-n

C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN= e-Szigno SMIME CA 2023	EDFB8A183C13D1B2530F8DE9BC5F0AAEBC7145DECA4FB5094A40B2F6A3987A7C	ETSI EN 319 411-1 V1.3.1, LCP
C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN= e-Szigno Qualified SMIME CA 2023	A40938BABD88FF42144B611298E90B3426194099152C49EAA4A8A6EAF42D2DD2	ETSI EN 319 411-2 V2.4.1, QCP-I-NCP+, QCP-n-NCP+, QPC-I, QCP-n

Table 2: Sub-CA's issued by the Root-CA 1 or its Sub-CA's in scope of the audit

Key generation date	Key identifier (short name)	Key usage	Key type and parameters	CA name	Public key
2023-09-14	eqsmimeca2023	Sub CA	ECC / NIST P-256 (256 bits)	e-Szigno Qualified SMIME CA 2023	pub: 04:42:51:a3:df:35:cd:54:e3:07:a0:54:63:87:59: 5a:25:d2:2a:3b:cb:f3:f0:04:43:74:7c:bf:de:fc: 35:b4:6d:59:9b:56:0e:91:00:e6:9b:50:72:71:f0: 29:d8:79:fc:27:0d:21:25:8c:1e:1d:91:68:35:98: c0:be:4d:99:74 ASN1 OID: prime256v1 NIST CURVE: P-256

Table 3: Key generation related to e-Szigno Root CA 2017

There was no CA key destruction in the period under review.

Root 2: Microsec e-Szigno Root CA 2009

Standards considered:	<p>European Standards:</p> <ul style="list-style-type: none">• ETSI EN 319 411-2 V2.4.1 (2021-11)• ETSI EN 319 411-1 V1.3.1 (2021-05)• ETSI EN 319 401 V2.3.1 (2021-05) <p>CA Browser Forum Requirements:</p> <ul style="list-style-type: none">• Baseline Requirements for the Issuance and Management of Publicly-Trusted S/MIME Certificates, version 1.0.1 <p>For the Trust Service Provider Conformity Assessment:</p> <ul style="list-style-type: none">• ETSI EN 319 403-1 V2.3.1 (2020-06)
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The audit was based on the following policy and practice statement documents of the CA / TSP:

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5. e-Szignó Certification Authority, eIDAS conform Non-Qualified Certificate for Electronic Signature Disclosure Statement, version: 3.11, Date of effect: 2023-12-19
6. e-Szignó Certification Authority, eIDAS conform Qualified Certificate for Electronic Signature, Certificate Policies, version: 3.11, Date of effect: 2023-12-19
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11. e-Szignó Certification Authority, eIDAS conform Non-Qualified Certificate for Electronic Seal Disclosure Statement, version: 3.11, Date of effect: 2023-12-19
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13. e-Szignó Certification Authority, eIDAS conform Qualified Certificate for Electronic Seal Certification Practice Statement, version: 3.11, Date of effect: 2023-12-19
14. e-Szignó Certification Authority, eIDAS conform Qualified Certificate for Electronic Seal Disclosure Statement, version 3.11, Date of effect: 2023-12-19
15. e-Szignó Certification Authority, Non eIDAS covered Certificate, Certificate Policies, version: 3.11, Date of effect: 2023-12-19
16. e-Szignó Certification Authority, Non eIDAS covered Certificates Certification Practice Statement, version: 3.11, Date of effect: 2023-12-19

In the following areas, non-conformities have been identified throughout the audit:

Findings with regard to ETSI EN 319 401:

None

Findings with regard to ETSI EN 319 411-1:

None.

Findings with regard to ETSI EN 319 411-2:

None.

All non-conformities have been closed before the issuance of this attestation.

To the best of our knowledge, no incidents have occurred within this Root-CA's hierarchy during the audited period.

Distinguished Name	SHA-256 fingerprint	Applied policy
/C=HU/L=Budapest/O=Microsec Ltd./CN=Microsec e-Szigno Root CA 2009	3C5F81FEA5FAB82C64BFA2EAEC AFCDE8E077FC8620A7CAE537163DF36EDBF378	ETSI EN 319 411-1 V1.3.1, LCP, NCP, NCP+, OVCP, DVCP, IVCP, EVCP ETSI EN 319 411-2 V2.4.1, QCP-I, QCP-I-qscd, QCP-n, QCP-n-qscd, QEVCP-w of ETSI EN 319 421 V1.1.1, BTSP
/C=HU/L=Budapest/O=Microsec Ltd./CN=Microsec e-Szigno Root CA 2009	72F9AF2158181BAF16D60C9B4E6F4BD7CA8D2341AD48AFDB67CB4C8332D546F6	ETSI EN 319 411-1 V1.3.1, LCP, NCP, NCP+, OVCP, DVCP, IVCP, EVCP ETSI EN 319 411-2 V2.4.1, QCP-I, QCP-I-qscd, QCP-n, QCP-n-qscd, QEVCP-w of ETSI EN 319 421 V1.1.1, BTSP
/C=HU/L=Budapest/O=Microsec Ltd./CN=Microsec e-Szigno Root CA 2009	8E8C6EBF77DC73DB3E38E93F4803E62B6B5933BEB51EE4152F68D7AA14426B31	ETSI EN 319 411-1 V1.3.1, LCP, NCP, NCP+, OVCP, DVCP, IVCP, EVCP ETSI EN 319 411-2 V2.4.1, QCP-I, QCP-I-qscd, QCP-n, QCP-n-qscd, QEVCP-w of ETSI EN 319 421 V1.1.1, BTSP

Table 4: Root-CA 2 in scope of the audit

The TSP named the Sub-CAs that have been issued by the aforementioned Root-CA, that are listed in the following table and that have been covered in this audit.

Distinguished Name	SHA-256 fingerprint	Applied policy
/C=HU/L=Budapest/O=Microsec Ltd./CN=Advanced Class 2 e-Szigno CA 2009	C63543729A370C26952B47E1D1D1AEA84CB1B07F1B0F964C2FEDDC523FD7C795	ETSI EN 319 411-1 V1.3.1, LCP
/C=HU/L=Budapest/O=Microsec Ltd./CN=Advanced Class 3 e-Szigno CA 2009	B0A6EF0350E7C4C6056BEEA7AF9D2D860B9ED102137B9729D3C23216D195546A	ETSI EN 319 411-1 V1.3.1, NCP, NCP+
/C=HU/L=Budapest/O=Microsec Ltd./2.5.4.97=VATHU-23584497-2-41/CN=Advanced eIDAS Class2 e-Szigno CA 2016	A29C104B100C3A7933473E62E4BE6371D653A1604D04EDAAD02C95806065CEE3	ETSI EN 319 411-1 V1.3.1, LCP
/C=HU/L=Budapest/O=Microsec Ltd./CN=Advanced Pseudonymous e-Szigno CA 2009	D0E39AA7D2FA53581008A15D825C57D25BD49247834431F8A227A29C280A1C0C	ETSI EN 319 411-1 V1.3.1, LCP, NCP, NCP+
/C=HU/L=Budapest/O=Microsec Ltd./CN=Qualified e-Szigno CA 2009	B884ED6527433687627D35157E904690D2DFF6A5DCD3CE267BBAF159C06F5054	ETSI EN 319 411-2 V2.4.1, QCP-n-qscd

/C=HU/L=Budapest/O=Microsec Ltd./2.5.4.97=VATHU-23584497-2-41/CN=Qualified e-Szigno Organization CA 2016	60AF9E5F39D873B236BE142BC706DA571849AED7FAE635FC5A1461A0CF7459C5	ETSI EN 319 411-2 V2.4.1, QCP-I-qscd
/C=HU/L=Budapest/O=Microsec Ltd./CN=Qualified e-Szigno QCP CA 2012	CF6B60C1F0180C68E3EA5D24B4A05E9D9900D87C3D83D503CE1690B3C1656458	ETSI EN 319 411-2 V2.4.1, QCP-I-NCP+, QCP-n-NCP+, QCP-I, QCP-n
/C=HU/L=Budapest/O=Microsec Ltd./CN=Qualified Pseudonymous e-Szigno CA 2009	F8684D2812BA98A52FE94528C4CB152378A2D73A828810A8C7B8529875C64674	ETSI EN 319 411-2 V2.4.1, QCP-n
/C=HU/L=Budapest/O=Microsec Ltd./2.5.4.97=VATHU-23584497/CN=Class3 KET e-Szigno CA 2018	7BCF1C8A12EE0B2854A1B41070652B0325E7D0C20B9C44D4ACE9C643387F1431	ETSI EN 319 411-1 V1.3.1, NCP, NCP+
/C=HU/L=Budapest/O=Microsec Ltd./2.5.4.97=VATHU-23584497/CN=Qualified KET e-Szigno CA 2018	D9E445B22C6FCB37B296FCD1331486569651A8DB98071753FEFC73D2C97BF732	ETSI EN 319 411-2 V2.4.1, QCP-I-qscd, QCP-I, QCP-n-qscd, QCP-n
C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN= e-Szigno SMIME CA 2023	45A0C311E31DAD443AF1F714A32CF353DA1225CA0780C172567210FFB9FB14A7	ETSI EN 319 411-1 V1.3.1, LCP
C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN= e-Szigno Qualified SMIME CA 2023	206ED85E0F129A6DE85FEB064BADC1B57F8DA94FA7D51BEF81F9C74317D2B184	ETSI EN 319 411-2 V2.4.1, QCP-I-NCP+, QCP-n-NCP+, QCP-I, QCP-n

Table 5: Sub-CA's issued by the Root-CA 2 or its Sub-CA's in scope of the audit

Key generation date	Key identifier (short name)	Key usage	Key type and parameters	CA name	Public key
2023-09-14	eqsmimeca2023	Sub CA	ECC / NIST P-256 (256 bits)	e-Szigno Qualified SMIME CA 2023	pub: 04:42:51:a3:df:35:cd:54:e3:07:a0:54:63:87:59: 5a:25:d2:2a:3b:cb:f3:f0:04:43:74:7c:bf:de:fc: 35:b4:6d:59:9b:56:0e:91:00:e6:9b:50:72:71:f0: 29:d8:79:fc:27:0d:21:25:8c:1e:1d:91:68:35:98: c0:be:4d:99:74 ASN1 OID: prime256v1 NIST CURVE: P-256

Table 6: Key generation related to Microsec e-Szigno Root CA 2009

There was no CA key destruction in the period under review.

Modifications record

Version	Issuing Date	Changes
Version 1	2024-01-10	Initial attestation

End of the audit attestation letter.