



CERTIFICATE

HUNGUARD Informatics and IT R&D and General Service Provider Ltd. (6 Kékgolyó str. Budapest 1123 Hungary) as a certification authority accredited by the accreditation document No. NAH-6-0048/2023 of National Accreditation Authority by applying the certification system HUNG_TMK-2-eIDAS_20240802

certifies, that the

Qualified Certificate Issuing Trust Service system

provided by

**Microsec Micro Software Engineering & Consulting
Private Company Limited by Shares** as an electronic information
system applied for trust services according to 910/2014/EU regulation in relation
to electronic signatures and infrastructures

complies

with the ETSI EN 319 411-2 V2.5.1 (2023-10) Policy and security requirements
for Trust Service Providers issuing certificates;
Part 2: Requirements for trust service providers issuing EU qualified certificates
European Standard.

This certificate has been issued on the basis of the Certification report
HUNG-TJ-ESIGN-R-026-2024

Produced on commission for Microsec Micro Software Engineering & Consulting
Private Company Limited by Shares
(Hungary, H-1033 Budapest, Ángel Sanz Briz str. 13.)

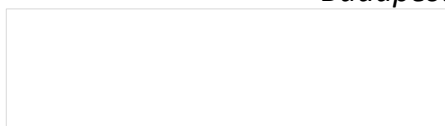
Certificate registration number: **HUNG-T-ESIGN-R-026-2024**

Validity start date of the certificate: 30 October, 2024

Validity end date of the certificate: 30 October, 2026

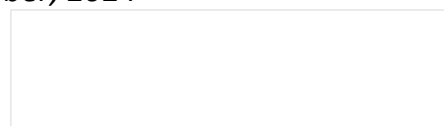
This Certificate has ten pages including the Annexes containing validity terms and
other attributes.

Budapest, 30 October, 2024



Endrődi Zsolt Attila
Certification director

PH.



Szűcs Ákos Balázs
Managing director

Annex 1

Validity terms of the certificate

1 The trust service where the certified electronic information system applied in based on:

Category of Service ¹ :	Qualified certificate issuing trust service http://uri.etsi.org/TrstSvc/Svctype/CA/QC Certificate validity status information service issuing Online Certificate Status Protocol (OCSP) http://uri.etsi.org/TrstSvc/Svctype/Certstatus/OCSP/QC Certificate validity status information services issuing and signing Certificate Revocation Lists (CRLs) http://uri.etsi.org/TrstSvc/Svctype/Certstatus/CRL/QC
Name of Service:	Qualified certificate issuing trust service for electronic signature
Identifiers of Trusted Service Policy:	OID: 1.3.6.1.4.1.21528.2.1.1.142 (version 3.14) 1.3.6.1.4.1.21528.2.1.1.143 (version 3.14) 1.3.6.1.4.1.21528.2.1.1.144 (version 3.14) 1.3.6.1.4.1.21528.2.1.1.232 (version 3.14)
Type of certificate policies: ²	QCP-n-qscd, QCP-n, NCP+
Identifier of Practice Statement of Trusted Service (SZSZ-MIN-ALA):	OID: 1.3.6.1.4.1.21528.2.1.1.192 (version 3.14)
Name of Service:	Qualified certificate issuing trust service for electronic seal
Identifiers of Trusted Service Policy:	OID: 1.3.6.1.4.1.21528.2.1.1.181 (version 3.14) 1.3.6.1.4.1.21528.2.1.1.182 (version 3.14) 1.3.6.1.4.1.21528.2.1.1.183 (version 3.14) 1.3.6.1.4.1.21528.2.1.1.232 (version 3.14)
Type of certificate policies	QCP-l-qscd, QCP-l, NCP+

¹ Based on ETSI TS 119 612 V2.2.1 (2016-04) 5.5.1.1 chapter

² Based on ETSI EN 319 411-2 V2.5.1 (2023-10) 5.2 chapter

Identifier of Practice Statement of Trusted Service (SZSZ-MIN-BEL):	OID: 1.3.6.1.4.1.21528.2.1.1.172 (version 3.14)
Name of Service:	Qualified certificate issuing trust service for website authentication
Identifiers of Trusted Service Policy:	OID: 1.3.6.1.4.1.21528.2.1.1.170 (version 3.14)
Type of certificate policies	QEVCP-w
Identifier of Practice Statement of Trusted Service (SZSZ-MIN-SSL):	OID: 1.3.6.1.4.1.21528.2.1.1.171 (version 3.14)
Root certification unit Microsec e-Szigno Root CA 2009 ³	Subject: C=HU, L=Budapest, O=Microsec Ltd., CN=Microsec e-Szigno Root CA 2009/emailAddress=info@e-szigno.hu Issuer C=HU, L=Budapest, O=Microsec Ltd., CN=Microsec e-Szigno Root CA 2009/emailAddress=info@e-szigno.hu SHA-256 hashes: 3C5F81FEA5FAB82C64BFA2EAECAFCDE8 E077FC8620A7CAE537163DF36EDBF378 72F9AF2158181BAF16D60C9B4E6F4BD7 CA8D2341AD48AFDB67CB4C8332D546F6 8E8C6EBF77DC73DB3E38E93F4803E62B 6B5933BEB51EE4152F68D7AA14426B31
Productive certification units:	Subject: C=HU, L=Budapest, O=Microsec Ltd., CN=Qualified e-Szigno CA 2009/emailAddress=info@e-szigno.hu Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=Microsec e-Szigno Root CA 2009/emailAddress=info@e-szigno.hu Subject: C=HU, L=Budapest, O=Microsec Ltd., CN=Qualified e-Szigno QCP CA 2012/emailAddress=info@e-szigno.hu Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=Microsec e-Szigno Root CA 2009/emailAddress=info@e-szigno.hu Subject: C=HU, L=Budapest, O=Microsec Ltd., CN=Qualified Pseudonymous e-Szigno CA 2009/emailAddress=info@e-szigno.hu⁴ Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=Microsec e-Szigno Root CA 2009/emailAddress=info@e-szigno.hu Subject: C=HU, L=Budapest, O=Microsec Ltd./2.5.4.97=VATHU-23584497, CN=Qualified KET e-Szigno CA 2018 Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=Microsec e-Szigno Root CA 2009/emailAddress=info@e-szigno.hu

³This Root (trust anchor) was created earlier with two other certificate. The three selfsigned certificate have same attribute fields: Subject, Subject Private Key Identifier and the public key itself. The validity of the certificates and signatures issued by the mentioned Root are provided, based on the validity check by the previous Root certificates.

⁴ Not in use because the trust provider does not issue pseudonymous certificates.

	Subject: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497-2-41,CN=Qualified e-Szigno Organization CA 2016 Issuer: C=HU,L=Budapest,O=Microsec Ltd.,CN=Microsec e-Szigno Root CA 2009/emailAddress=info@e-szigno.hu Subject: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN=Qualified e-Szigno TLS CA 2018 Issuer: C=HU,L=Budapest,O=Microsec Ltd.,CN=Microsec e-Szigno Root CA 2009/emailAddress=info@e-szigno.hu Subject: C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=Qualified e-Szigno TLS CA 2023 Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=Microsec e-Szigno Root CA 2009, emailAddress=info@e-szigno.hu Subject: C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN= e-Szigno Qualified SMIME CA 2023 Issuer: C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN= Microsec e-Szigno Root CA 2009, emailAddress=info@e-szigno.hu
Productive certification units KET ⁵ :	Subject: C=HU, L=Budapest, O=Microsec Ltd./2.5.4.97=VATHU-23584497, CN=Qualified KET e-Szigno CA 2018 Issuer: C=hu, CN=KGYHSZ (Public Administration Root CA - Hungary) Subject: C=HU, L=Budapest, O=Microsec Ltd., CN=Qualified KET e-Szigno CA 2009/emailAddress=info@e-szigno.hu Issuer: C=hu, CN=KGYHSZ (Public Administration Root CA - Hungary)
Root certification unit e-Szigno Root CA 2017	Subject: C=HU, L=Budapest, O=Microsec Ltd./2.5.4.97=VATHU-23584497, CN=e-Szigno Root CA 2017 Issuer: C=HU, L=Budapest, O=Microsec Ltd./2.5.4.97=VATHU-23584497, CN=e-Szigno Root CA 2017 SHA256 hash: BEB00B30839B9BC32C32E44479059506 41F26421B15ED089198B518AE2EA1B99
Productive certification units:	Subject: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Qualified Pseudonymous CA 2017⁶ Issuer: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Root CA 2017 Subject: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Qualified CA 2017

⁵Only in the case of Qualified Public Administration Certificate Provider service (KET).

⁶ Not in use because the trust provider does not issue pseudonymous certificates

	Issuer: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Root CA 2017 Subject: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Qualified Organization CA 2017 Issuer: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Root CA 2017 Subject: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Qualified QCP CA 2017 Issuer: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Root CA 2017 Subject: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Qualified TLS CA 2018 Issuer: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Root CA 2017 Subject: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno TSA CA 2017 Issuer: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Root CA 2017 Subject: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno TSA CA 2020 Issuer: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Root CA 2017 Subject: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Qualified SMIME CA 2023 Issuer: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Root CA 2017
Root certification unit Microsec e-Szigno Root CA	Issuer: C=HU, L=Budapest, O=Microsec Ltd., OU=e-Szigno CA, CN=Microsec e-Szigno Root CA Subject: C=HU, L=Budapest, O=Microsec Ltd., OU=e-Szigno CA, CN=Microsec e-Szigno Root CA <i>The Provider does not issue Certificates according to this hierarchy. The Provider keeps the SHA-1 based hierarchy for the verifiability of the previously created signatures and Time Stamps Intermediate Certification Units in the SHA-1 based hierarchy issued "closing CRLs". The Provider terminated the OCSP services serving the SHA-1-</i>

	<i>based hierarchy in April 2017. The validity of the old electronic signatures can be verified by using the closing CRL-s.</i>
Root certification unit e-Szigno TLS Root CA 2023	Subject: C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN= e-Szigno TLS Root CA 2023 Issuer: C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=e-Szigno TLS Root CA 2023 SHA256 hash: B49141502D00663D740F2E7EC340C528 00962666121A36D09CF7DD2B90384FB4
Productive certification units:	Subject: C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN= e-Szigno Qualified TLS CA 2023 Issuer: C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=e-Szigno TLS Root CA 2023
Root certification unit e-Szigno TLS Root CA 2024	Subject: C=HU, L=Budapest, O=Microsec Ltd., CN= e-Szigno TLS Root CA 2024 Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=e-Szigno TLS Root CA 2024 SHA256 hash: 328CDF63622AFB8A3FBC1347FD3389F9 18DA4A33F80AF34522D34B5BDA9CCB82
Productive certification unit:	Subject: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN= e-Szigno Qualified TLS CA 2023 Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=e-Szigno TLS Root CA 2024
Root certification unit e-Szigno SMIME Root CA 2024	Subject: C=HU, L=Budapest, O=Microsec Ltd., CN= e-Szigno SMIME Root CA 2024 Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=e-Szigno SMIME Root CA 2024 SHA256 hash: 7A422EC237B4DA7D326C232278F6DBE3 29B0C9ED5A56AAFCC110A8BC83ED0A96
Productive certification unit:	Subject: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN= e-Szigno Qualified SMIME CA 2023

	Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=e-Szigno SMIME Root CA 2024
Root certification unit e-Szigno Root CA 2024	Subject: C=HU, L=Budapest, O=Microsec Ltd., CN= e-Szigno Root CA 2024 Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=e-Szigno Root CA 2024 SHA256 hash: F059AF128159EF0BD1D70B6D1EBBD26D 2A48C9EB90617CF77FC7B59DA8300897
Productive certification unit:	Subject: C=HU, L=Budapest, O=Microsec Ltd., CN= e-Szigno Qualified TLS CA 2024 Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=e-Szigno Root CA 2024

2 Review of the system evaluation must be enforced in the following cases in order to confirm the results of the initial system evaluation certified in this document, to maintain the validity of certificate:

- once a year in the validity period of the Certificate (planned system evaluation review),
- responding to the main modifications in the system architecture or functionality (special).

3 Significant changes in the architecture or functionality of the system under operation must be reported by the Customer to the Certifier within 30 days after the modification went into operation. Furthermore, the Customer must send the documentation of the change in detail, which are commensurate with the former evaluation level. The Certifier evaluates the effects of the modification and decides on the necessity of a special system evaluation review in order to maintain the certificate validity.

4 When compliance is achieved, the Certifier fills out a Certificate Maintenance Record for the actual system state. The Customer must provide the terms of the planned or special system evaluation review.

Annex 2

Document containing the requirements

ETSI EN 319 411-2 V2.5.1 (2023-10) Policy and security requirements for Trust Service Providers issuing certificates; Part 2: Requirements for trust service providers issuing EU qualified certificates

ETSI EN 319 411-1 V1.4.1 (2023-10) Policy and security requirements for Trust Service Providers issuing certificates; Part 1: General requirements

ETSI EN 319 401 V3.1.1 (2024-06) Electronic Signatures and Infrastructures (ESI); General Policy Requirements for Trust Service Providers

Annex 3

Further features of the certification

This certificate based on contract signed on 05 June 2024 and the assessment started on 12 June 2024. This certificate has been issued according to the following:

- Evaluation report for Microsec Micro Software Engineering & Consulting Private Limited Company by Shares as a qualified trusted service provider based on ETSI EN 319 401 V3.1.1 (2024-06) standard v1.0 (C435-12/P/E-2024-ÉJ2)
- Evaluation report for Microsec Micro Software Engineering & Consulting Private Limited Company by Shares as a qualified trusted service provider qualified certificate issuance service based on ETSI EN 319 411-2 V2.4.1 (2021-11) standard v1.0 (C435-12/P/E-2024-ÉJ6)

Locations of assessment:

Central Site with offices, location of RA activities	Ángel Sanz Briz út 13, 1033 Budapest, Hungary. South Area of Graphisoft Park
Graphisoft serverroom	Záhony utca 7. D building, 1031 Budapest, Hungary 700 m away from central site
Dataplex serverroom	Asztalos Sándor út 13. 1087 Budapest, Hungary 10 km away from central site

Considered laws

REGULATION (EU) No 910/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 23 July 2014⁷ on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC

Act CIII of 2023 on the Digital State and on Certain Rules for the Provision of Digital Services

⁷ as amended by Regulation (EU) 2024/1183 of the European Parliament and of the Council

24/2016. (VI. 30.) BM decree on detailed requirements of trust services and trust service providers

Considered document about methodology

ISO/IEC 27002:2022 Information security, cybersecurity and privacy protection – information security controls

NIST Special Publication 800-53 Revision 4 Security and Privacy Controls for Federal Information Systems and Organizations

NIST Special Publication 800-53A Revision 4 Assessing Security and Privacy Controls in Federal Information Systems and Organizations: Building Effective Assessment Plans (December 2014)

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