



# 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 Electronic Timestamp Generation 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 319 421 V1.2.1 (2023-05) Policy and Security Requirements for Trust Service Providers issuing Time-Stamps European Standard.

This certificate has been issued on the basis of the Certification report  
**HUNG-TJ-ESIGN-R-027-2024**

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

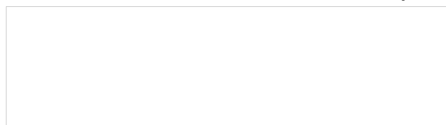
Certificate registration number: **HUNG-T-ESIGN-R-027-2024**

Validity start date of the certificate: 30 October, 2024

Validity end date of the certificate: 30 October, 2026

This Certificate has nine 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 <sup>1</sup>                                       | Qualified electronic timestamp issuance<br><a href="http://uri.etsi.org/TrstSvc/Svctype/TSA/QTST">http://uri.etsi.org/TrstSvc/Svctype/TSA/QTST</a>                                                                                                                                                                                                                                                                                                                                           |
| Identifiers of Trusted Service Policy:                                 | OID: 1.3.6.1.4.1.21528.2.1.1.186 (version 3.14)                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Type of certificate policies: <sup>2</sup>                             | BTSP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Identifier of Practice Statement of Trusted Service (ISZ-MIN):         | OID: 1.3.6.1.4.1.21528.2.1.1.169 (version 3.14)                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Root certification unit<br>Microsec e-Szigno Root CA 2009 <sup>3</sup> | Subject: C=HU, L=Budapest, O=Microsec Ltd., CN= <b>Microsec e-Szigno Root CA 2009</b> /emailAddress=info@e-szigno.hu<br>Issuer C=HU, L=Budapest, O=Microsec Ltd., CN=Microsec e-Szigno Root CA 2009/emailAddress=info@e-szigno.hu<br>SHA-256 hashes:<br><br><b>3C5F81FEA5FAB82C64BFA2EAECAFCDE8<br/>E077FC8620A7CAE537163DF36EDBF378</b><br><br>72F9AF2158181BAF16D60C9B4E6F4BD7<br>CA8D2341AD48AFDB67CB4C8332D546F6<br>8E8C6EBF77DC73DB3E38E93F4803E62B<br>6B5933BEB51EE4152F68D7AA14426B31 |
| Productive certification units:                                        | Subject: C=HU, L=Budapest, O=Microsec Ltd., CN= <b>Qualified e-Szigno QCP CA 2012</b> /emailAddress=info@e-szigno.hu<br>Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=Microsec e-Szigno Root CA 2009/emailAddress=info@e-szigno.hu<br><br>Subject: C=HU, L=Budapest, O=Microsec Ltd./2.5.4.97=VATHU-23584497, CN= <b>e-Szigno TSA CA 2020</b><br>Issuer C=HU, L=Budapest, O=Microsec Ltd., CN=Microsec e-Szigno Root CA 2009/emailAddress=info@e-szigno.hu                                   |

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

<sup>2</sup> Based on ETSI EN 319 421 V1.2.1 (2023-05) 5.2 chapter

<sup>3</sup> This 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.

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| TSU Certificates: | <p>Serial=0091846ebd8d27361cf4420d0a</p> <p>Subject: C=HU,L=Budapest,O=Microsec Ltd.,CN=<b>Qualified eIDAS e-Szigno TSA 2016 01</b></p> <p>Issuer: C=HU,L=Budapest,O=Microsec Ltd.,CN=Microsec e-Szigno Root CA 2009,emailAddress=info@e-szigno.hu</p> <p>Serial=950329FCCB69E81938215B0A</p> <p>Subject: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497-2-41,CN=<b>Qualified eIDAS e-Szigno TSA 2017 01</b></p> <p>Issuer: C=HU,L=Budapest,O=Microsec Ltd.,CN=Microsec e-Szigno Root CA 2009,emailAddress=info@e-szigno.hu</p> <p>Serial=B4F54557FCFEAA8789BE1F0A</p> <p>Subject: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN=<b>Qualified eIDAS e-Szigno TSA 2017 02</b></p> <p>Issuer: C=HU,L=Budapest,O=Microsec Ltd.,CN=Microsec e-Szigno Root CA 2009,emailAddress=info@e-szigno.hu</p> <p>Serial=00BFB5F37C42F1954AAA6D1B0A</p> <p>Subject: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN=<b>Qualified eIDAS e-Szigno TSA 2018 02</b></p> <p>Issuer: C=HU,L=Budapest,O=Microsec Ltd.,CN=Microsec e-Szigno Root CA 2009,emailAddress=info@e-szigno.hu</p> <p>Serial=0146CBB5751B747BC96EA2EF960A</p> <p>Subject: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN=<b>Qualified eIDAS e-Szigno TSA 2019 03</b></p> <p>Issuer: C=HU,L=Budapest,O=Microsec Ltd.,CN=Qualified e-Szigno QCP CA 2012,emailAddress=info@e-szigno.hu</p> <p>Serial=0182C9C9538D82518E65345B7A0A</p> <p>Subject: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN=<b>Qualified eIDAS e-Szigno TSA 2020 01</b></p> <p>Issuer: C=HU,L=Budapest,O=Microsec Ltd.,CN=Qualified e-Szigno QCP CA 2012,emailAddress=info@e-szigno.hu</p> <p>Serial: 019857A8B1312797D09792FD5C0A</p> <p>Subject: C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=<b>Qualified eIDAS e-Szigno TSA 2020 02</b></p> <p>Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=Qualified e-Szigno QCP CA 2012, emailAddress=info@e-szigno.hu</p> <p>Serial: 01DDD6665FC3096F645C7BBC8B0A</p> <p>Subject: C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=<b>Qualified eIDAS e-Szigno TSA 2021 01</b></p> |
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|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                   | <p>Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=Qualified e-Szigno QCP CA 2012, <a href="mailto:info@e-szigno.hu">emailAddress=info@e-szigno.hu</a></p> <p>Serial: 220CA3A2F8C48547EC2246A7C0A</p> <p>Subject: C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=<b>Qualified eIDAS e-Szigno TSA 2023 01</b></p> <p>Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=Qualified e-Szigno QCP CA 2012, <a href="mailto:info@e-szigno.hu">emailAddress=info@e-szigno.hu</a></p> <p>Serial: 26880963D05D9C60FD523DD170A</p> <p>Subject: C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=<b>Qualified eIDAS e-Szigno TSA 2024 01</b></p> <p>Issuer: C=HU, L=Budapest, O=Microsec Ltd., CN=Qualified e-Szigno QCP CA 2012, <a href="mailto:info@e-szigno.hu">emailAddress=info@e-szigno.hu</a></p> |
| Root certification units<br>e-Szigno Root CA 2017 | <p>Subject: C=HU, L=Budapest, O=Microsec Ltd./2.5.4.97=VATHU-23584497, CN=<b>e-Szigno Root CA 2017</b></p> <p>Issuer: C=HU, L=Budapest, O=Microsec Ltd./2.5.4.97=VATHU-23584497, CN=e-Szigno Root CA 2017</p> <p>SHA256 hash:</p> <p style="text-align: right;"><b>BEB00B30839B9BC32C32E44479059506<br/>41F26421B15ED089198B518AE2EA1B99</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Productive certification<br>units:                | <p>Subject: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=<b>e-Szigno TSA CA 2017</b></p> <p>Issuer: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Root CA 2017</p> <p>Subject: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=<b>e-Szigno TSA CA 2020</b></p> <p>Issuer: C=HU ,L=Budapest ,O=Microsec Ltd. ,2.5.4.97=VATHU-23584497 ,CN=e-Szigno Root CA 2017</p>                                                                                                                                                                                                                                                                                                                                                                                          |
| TSU certificates:                                 | <p>Serial=00E7D30FA37679AE682C6C648A0A</p> <p>Subject: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN=<b>e-Szigno Qualified TSA 2017 01</b></p> <p>Issuer: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN=e-Szigno TSA CA 2017</p> <p>Serial=0115031C8B0AACAD5044F27F070A</p> <p>Subject: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN=<b>e-Szigno Qualified TSA 2018 01</b></p> <p>Issuer: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN=e-Szigno TSA CA 2017</p> <p>Serial=011DD08616468406E8B378A9B00A</p>                                                                                                                                                                                                                                                       |

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|  | <p>Subject: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN=<b>e-Szigno Qualified TSA 2018 02</b></p> <p>Issuer: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN=e-Szigno TSA CA 2017</p> <p>Serial=0146CCF23CE8866CCF54538FD80A</p> <p>Subject: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN=<b>e-Szigno Qualified TSA 2019 02</b></p> <p>Issuer: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN=e-Szigno TSA CA 2017</p> <p>Serial=0182CB109C86F9F65A1B4A7A5B0A</p> <p>Subject: C=HU,L=Budapest,O=Microsec Ltd.,2.5.4.97=VATHU-23584497,CN=<b>e-Szigno Qualified TSA 2020 01</b></p> <p>Issuer: C=HU,L=Budapest,O=Microsec Ltd.,CN=Qualified e-Szigno QCP CA 2012,emailAddress=info@e-szigno.hu</p> <p>Serial: 01985AACED366BFD31F61AFA470A</p> <p>Subject: C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=<b>e-Szigno Qualified TSA 2020 02</b></p> <p>Issuer= C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=e-Szigno TSA CA 2020</p> <p>Serial=01DDD84D0C05787E64853E8D7D0A</p> <p>Subject= C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=<b>e-Szigno Qualified TSA 2021 01</b></p> <p>Issuer= C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=e-Szigno TSA CA 2020</p> <p>Serial=01F813055EAFDCC073C7AB76200A</p> <p>Subject= C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=<b>e-Szigno Qualified TSA 2022 01</b></p> <p>Issuer= C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=e-Szigno TSA CA 2020</p> <p>Serial= 220CC0DFE71F4776C2699B2940A</p> <p>Subject= C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=<b>e-Szigno Qualified TSA 2023 01</b></p> <p>Issuer= C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=e-Szigno TSA CA 2020</p> <p>Serial= 2350669D7ACEFAFFEA9AA33A90A</p> <p>Subject= C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=<b>e-Szigno Qualified TSA 2023 02</b></p> <p>Issuer= C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=e-Szigno TSA CA 2020</p> |
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|  | <p>Serial= 2688BAAF8DE659167272DCAF50A<br/>Subject= C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=<b>e-Szigno Qualified TSA 2024 01</b><br/>Issuer= C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=e-Szigno TSA CA 2020</p> <p>Serial= 26E62B3F70A0EF4918D8C02BC0A<br/>Subject= C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=<b>e-Szigno Qualified TSA 2024 02</b><br/>Issuer= C=HU, L=Budapest, O=Microsec Ltd., 2.5.4.97=VATHU-23584497, CN=e-Szigno TSA CA 2020</p> |
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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 319 421 V1.2.1 (2023-05)** Policy and Security Requirements for Trust Service Providers issuing Time-Stamps

**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 electronic time stamp generation service based on ETSI EN 319 421 V1.2.1 (2023-05) standard v1.0 (C435-12/P/E-2024-ÉJ7)

#### Locations of assessment:

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

#### Considered laws

**REGULATION (EU) No 910/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 23 July 2014<sup>4</sup>** 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**

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<sup>4</sup> 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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