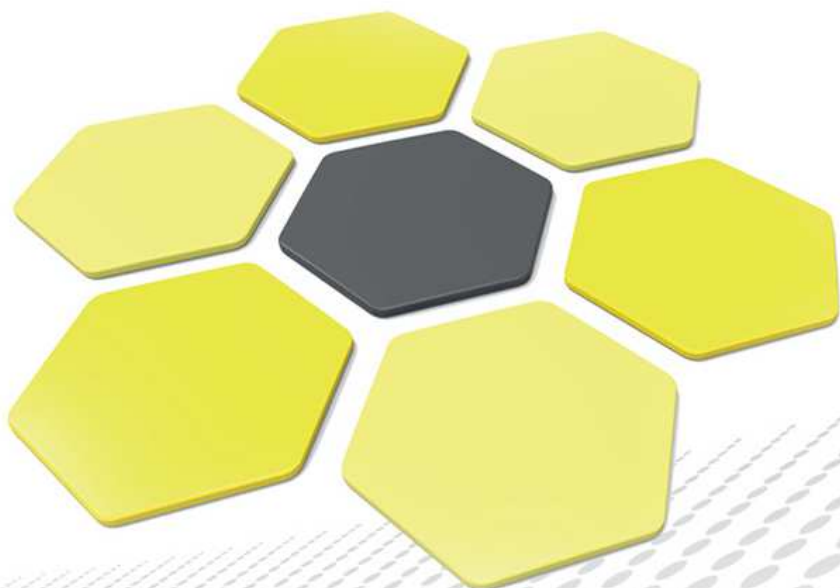


**e-Szignó Certification Authority**

**eIDAS conform  
Qualified Time Stamping  
Disclosure Statement**

**ver. 2.4**

**Date of effect: 30/09/2017**



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## Table of Contents

<b>1</b>	<b>Introduction</b>	<b>6</b>
1.1	Document Name and Identification . . . . .	6
1.1.1	Document Identification . . . . .	6
1.1.2	Compliance . . . . .	6
1.1.3	Effect . . . . .	7
1.1.4	Time-Stamping Policy . . . . .	7
1.2	The Trust Service Provider . . . . .	8
1.2.1	Data of the Provider . . . . .	8
1.2.2	Contact information of the customer service . . . . .	9
1.3	Time-Stamp Usage . . . . .	9
1.4	Policy Administration . . . . .	10
1.4.1	Person or Organization Responsible for the Suitability of the Practice Statement for the <i>Qualified Time-Stamping Policy</i> . . . . .	10
<b>2</b>	<b>The Certificate of the Time-Stamping Unit and Time-Stamping</b>	<b>10</b>
2.1	The Time-Stamp . . . . .	10
2.1.1	The Time-Stamp Request . . . . .	10
2.1.2	Time-Stamp Response . . . . .	11
2.2	Time-Stamp Accuracy . . . . .	11
2.3	Time-Stamp Validation . . . . .	12
<b>3</b>	<b>Certificate Life-Cycle Operational Requirements</b>	<b>12</b>
3.1	Key Pair and Certificate Usage . . . . .	12
3.1.1	Relying Party Public Key and Certificate Usage . . . . .	12
<b>4</b>	<b>Facility, Management, and Operational Controls</b>	<b>13</b>
4.1	Audit Logging Procedures . . . . .	13
4.1.1	Types of Events Recorded . . . . .	13
4.2	Records Archival . . . . .	14
4.2.1	Retention Period for Archive . . . . .	14
<b>5</b>	<b>Compliance Audit and Other Assessments</b>	<b>14</b>
<b>6</b>	<b>Other Business and Legal Matters</b>	<b>15</b>
6.1	Financial Responsibility . . . . .	15
6.1.1	Insurance or Warranty Coverage for End-entities . . . . .	15
6.2	Privacy of Personal Information . . . . .	16
6.2.1	Privacy Plan . . . . .	16
6.3	Representations and Warranties . . . . .	16

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6.3.1	CA Representations and Warranties . . . . .	16
6.3.2	Subscriber Representations and Warranties . . . . .	18
6.3.3	Relying Party Representations and Warranties . . . . .	18
6.4	Limitations of Liability . . . . .	19
6.5	Dispute Resolution Provisions . . . . .	19
6.6	Governing Law . . . . .	20
<b>A</b>	<b>REFERENCES</b>	<b>21</b>

## 1 Introduction

This document contains the *Disclosure statement* defined by e-Szignó Certification Authority operated by Microsec Micro Software Engineering & Consulting Private Limited Company by Shares (hereinafter: Microsec or *Qualified Time-Stamping Provider*).

The *Disclosure statement* contains comprehensive information of the conditions for consumers using the service corresponding to the provisions of the *Qualified Time-Stamping Practice Statement*, according to the provisions of the decree 24/2016. (VI. 30.) of Ministry of Interiors concerning detailed requirements for trust services and their providers.

The *Disclosure statement* complies with the requirements set by the eIDAS regulation [1], the service provided according to these regulations is an EU qualified trusted service.

The *Qualified Time-Stamping Provider* announced the trust service provision on the 1st of July 2016. to the National Media and Infocommunications Authority.

The conformity assessment audit of the trust services was carried out by the independent auditor TÜV Informationstechnik GmbH (hereinafter: TÜViT).

Based on the successful audit the National Media and Infocommunications Authority registered the qualified trust service and published it in the national Trust List on the 20th of December 2016.

### 1.1 Document Name and Identification

#### 1.1.1 Document Identification

Issuer	e-Szignó Certification Authority
Document Title	eIDAS conform Qualified Time Stamping Disclosure Statement
OID	1.3.6.1.4.1.21528.2.1.1.199
Document Version	2.4
Date of Effect	30/09/2017

The current version of the document is available on the website of the *Qualified Time-Stamping Provider*, and the customer service office of the *Qualified Time-Stamping Provider*.

#### 1.1.2 Compliance

The *Time Stamps* issued according to the present *Disclosure statement* are compliant with the requirements below:

- ETSI EN 319 421 [6]  
BTSP: a best practices policy for time-stamp  
OID: itu-t(0) identified-organization(4) etsi(0)time-stamp-policy(2023)policy-identifiers(1)  
best-practices-ts-policy (1)

The *Qualified Time-Stamping Provider* includes its own OID in the *Time Stamps* it issues, and it supports the aforementioned ETSI time-stamping policy (i.e. BSTP).

### 1.1.3 Effect

This *Disclosure statement* is in effect from the 30/09/2017 date of entry into force to until its withdrawal.

The geographical scope of the present *Disclosure statement* is the territory of Hungary. The current Hungarian law shall prevail in relation to the operation of the *Qualified Time-Stamping Provider*. The service provided according to the present *Disclosure statement* is available worldwide. The validity of the *Time Stamps* made according to the the *Disclosure statement* is independent from the geographic location where they were made or from the geographic location where they are used.

### 1.1.4 Time-Stamping Policy

The present *Qualified Time-Stamping Practice Statement* undertakes the compliance with the requirements of the *Qualified Time-Stamping Policy* below:

- " e-Szignó Certification Authority – eIDAS conform Qualified Time-Stamping Policy ", OID: 1.3.6.1.4.1.21528.2.1.1.186.2.4, [11].

The current version and all previous versions of The *Qualified Time-Stamping Policy* is available at the following URL:

<https://e-szigno.hu/en/terms-and-informations.html>

## 1.2 The Trust Service Provider

### 1.2.1 Data of the Provider

Name:	MICROSEC Micro Software Engineering & Consulting Private Limited Company by Shares
Company registry number:	01-10-047218 Company Registry Court of Budapest
Head office:	1031 Budapest, Záhony street 7. D. building
Telephone number:	(+36-1) 505-4444
Fax number:	(+36-1) 505-4445
Internet address:	<a href="https://www.microsec.hu">https://www.microsec.hu</a> , <a href="https://www.e-szigno.hu">https://www.e-szigno.hu</a>

The access of the *Qualified Time-Stamping Policy*, the *Qualified Time-Stamping Practice Statement* and the Privacy Policy:

- <https://e-szigno.hu/en/pki-services/certificate-policies-general-terms-and-conditions.html>

The access of the price list:

- <https://e-szigno.hu/hitelesites-szolgalatas/arlista/>

Refund:

The termination of the service agreement does not affect the fees paid by the *Subscriber*.

The *Qualified Time-Stamping Provider* does not issue refunds on fees that have already been paid, unless the service agreement expires due to the *Qualified Time-Stamping Provider's* fault, or if the *Qualified Time-Stamping Provider* explicitly allows for this – for example in case of several packages.

The certificates of the conformity assessment audit can be found on the official WEB page of TÜViT on the following link:

<https://www.tuvit.de/en/certification-overview-1265-4512.htm>

and they are published also on the WEB page of the *Qualified Time-Stamping Provider* on the following link:

<https://e-szigno.hu/eidas/eidas.html>

The identification of the issued certificate:

e-Szignó Qualified Time-Stamp Certificate ID: 9719.16

The access of the Hungarian national trust list:



- human readable PDF format: [http://www.nmhh.hu/t1/pub/HU\\_TL.pdf](http://www.nmhh.hu/t1/pub/HU_TL.pdf)
- machine-processable XML format: [http://www.nmhh.hu/t1/pub/HU\\_TL.xml](http://www.nmhh.hu/t1/pub/HU_TL.xml)

The register of the National Media and Infocommunications Authority on trust services is available on the following link:

<http://webpub-ext.nmhh.hu/esign2016/>

The access of the service agreement:

The *Qualified Time-Stamping Provider* sends the service agreement to be concluded with the *Clientss* to the notification e-mail address of the *Subject* given during initial registration.

### 1.2.2 Contact information of the customer service

The name of the provider unit:	e-Szignó Certification Authority
Customer service:	1031 Budapest, Záhony street 7., Graphisoft Park, D building
Office hours of the customer service:	on workdays between 8:30-16:30 by prior arrangement
Telephone number of the customer service:	(+36-1) 505-4444
E-mail address of the customer service:	<a href="mailto:info@e-szigno.hu">info@e-szigno.hu</a>
Service related information access:	<a href="https://www.e-szigno.hu">https://www.e-szigno.hu</a>
Place for registering complaints:	Microsec zrt. 1031 Budapest, Záhony str. 7., Graphisoft Park, D building
Relevant Consumer Protection Inspectorate:	Budapest Capital Authority for Consumer Protection 1052 Budapest, Városház str. 7. 1364 Budapest, Pf. 144.
Relevant Arbitration Board:	Arbitration Board of Budapest 1016 Budapest, Krisztina krt. 99. III. em. 310. Mailing address: 1253 Budapest, Pf.: 10.

## 1.3 Time-Stamp Usage

The *Time Stamp* credibly certifies that, the electronic document with the *Time Stamp* already existed in the given state before the time indicated in the *Time Stamp*.

## 1.4 Policy Administration

### 1.4.1 Person or Organization Responsible for the Suitability of the Practice Statement for the *Qualified Time-Stamping Policy*

The provider that issued the *Qualified Time-Stamping Practice Statement* is responsible for its conformity with the *Qualified Time-Stamping Policy* referenced in it and for the provision of the service according to the regulations contained therein.

The *Qualified Time-Stamping Practice Statements* and the provision of the services are supervised by the National Media and Infocommunications Authority. The National Media and Infocommunications Authority maintains a register on the *Certificate Policies* and on the *Qualified Time-Stamping Providers* applying these policies.

## 2 The Certificate of the Time-Stamping Unit and Time-Stamping

### 2.1 The Time-Stamp

The *Time Stamp* issued by the *Qualified Time-Stamping Provider* complies with the IETF RFC 3161 [9] and the ETSI EN 319 422 [7] standards;

Accordingly the characteristics of the *Time Stamp* are:

- it includes the hash sent in the message of the requester.
- it includes the OID of the *Time-Stamping Policy*.
- it has a unique identifier.

#### 2.1.1 The Time-Stamp Request

The *Qualified Time-Stamping Provider* supports the *Time Stamp* requests according to the IETF RFC 3161 [9] section 2.4.1. including the usage of the following fields:

- "reqPolicy"
- "nonce"
- "certReq"
- "extensions"

The *Qualified Time-Stamping Provider* accepts the hashing algorithms in the *Time Stamp* requests specified by ETSI TS 119 312 [8] and the current National Media and Infocommunications Authority algorithmic decree. It takes into account when selecting the hashing algorithms the planned usage time of the *Time Stamp* and the expected duration of the hashing method adequacy. The currently supported hashing algorithms are:

sha256	{ joint-iso-itu-t(2) country(16) us(840) organization(1) gov(101) csor(3) nistAlgorithm(4) hashAlgs(2) sha256(1) }
sha512	{ joint-iso-itu-t(2) country(16) us(840) organization(1) gov(101) csor(3) nistAlgorithm(4) hashAlgs(2) sha512(3) }

### 2.1.2 Time-Stamp Response

The *Qualified Time-Stamping Provider* supports the *Time Stamp* responses according to IETF RFC 3161 [9] section 2.4.2 with the following extensions:

- "accuracy";
- "nonce".

In case of the inclusion of the "nonce" in the *Time Stamp* request, the *Time Stamp* response includes the same value.

The *Qualified Time-Stamping Provider* uses the cryptographic algorithm sets and key lengths for signing the *Time Stamps* specified by ETSI TS 119 312 [8] and appointed in the current National Media and Infocommunications Authority algorithmic decree. It takes into account the planned usage time of the *Time Stamp* when selecting the cryptographic algorithm sets and key lengths.

The supported cryptographic algorithm set:

sha256WithRSAEncryption	{ iso(1) member-body(2) us(840) rsadsi(113549) pkcs(1) pkcs-1(1)sha256WithRSAEncryption(11) }
sha512WithRSAEncryption	{ iso(1) member-body(2) us(840) rsadsi(113549) pkcs(1) pkcs-1(1)sha512WithRSAEncryption(13) }
ecdsa-with-SHA256	{ iso(1) member-body(2) us(840) ansi-x962(10045) signatures(4) ecdsa-with-SHA2(3) ecdsa-with-SHA256(2) }

The identifier of the supported ETSI Time-Stamping profile (BTSP):

itu-t(0) identified-organization(4) etsi(0) time-stamp-policy(2023) policy-identifiers(1) baseline-ts-policy (1).

## 2.2 Time-Stamp Accuracy

The *Qualified Time-Stamping Provider* guarantees that the deviation of the time indicated in the *Time Stamps* from the UTC time is at most 1 second.

The *Time-Stamping Unit* clock provider systems are in the strictly protected *Data Centre* of the *Qualified Time-Stamping Provider*, which makes the unnoticed modification of the clock impossible.

The *Qualified Time-Stamping Provider* constantly monitors its internal time provider systems. If the internal time deviation from the UTC time exceeds 0.1 second, the the *Qualified Time-Stamping Provider* suspends the issuance of *Time Stamps*.

The accuracy of the internal clock of the *Qualified Time-Stamping Provider* is examined every year by the security committee of the *Qualified Time-Stamping Provider*.

### 2.3 Time-Stamp Validation

During the verification of the validity of the electronic signature or electronic seal on the *Time Stamp* the *Relying Party* should act as described in the ETSI EN 319 102-1 [3] specification.

During the verification of the *Time Stamp*:

- it shall be verified that the time-stamped document belongs together with the *Time Stamp* and the *Certificate* of the *Qualified Time-Stamping Provider*;
- the signature on the *Time Stamp* shall be verified;
- it shall be verified that the *Time Stamp* meets the specific purpose, among other things that the accuracy, the reliability and the liability of the related Time-Stamping Service Provider is appropriate.

## 3 Certificate Life-Cycle Operational Requirements

### 3.1 Key Pair and Certificate Usage

#### 3.1.1 Relying Party Public Key and Certificate Usage

To retain the level of security guaranteed by the *Qualified Time-Stamping Provider*, in the course of using the service the *Relying Party* is recommended to proceed prudentially particularly regarding to the following:

- the *Relying Party* shall verify the validity and revocation status of the *Certificate*;
- the verifications related to the *Certificate* should be carried out for the entire certificate chain;
- it is recommended to verify that the *Certificate* was issued according to the appropriate Certificate Policy;

- the *Relying Party* shall consider any restrictions indicated in the *Certificate* or in the regulations referenced in the *Certificate*.

## 4 Facility, Management, and Operational Controls

The *Qualified Time-Stamping Provider* applies physical, procedural, and personnel security precautions that comply with acknowledged standards, along with the administrative and governance related procedures that enforce these.

The *Qualified Time-Stamping Provider* keeps a record of the system units and resources related to the service provision, and conducts a risk assessment on these. It uses protective measures proportional to the risks related to the individual elements.

The *Qualified Time-Stamping Provider* monitors the capacity demands and ensures that the adequate processing power and storage are available for the provision of the service.

### 4.1 Audit Logging Procedures

In order to maintain a secure IT environment the *Qualified Time-Stamping Provider* implements and operates an event logger and control system covering its full IT system.

#### 4.1.1 Types of Events Recorded

The *Qualified Time-Stamping Provider* logs every security-related event that can provide information on events, changes happened in the IT system or in its physical environment according to the generally accepted information security practice. In case of every log entry, it stores the following data:

- the time of the event;
- the type of the event;
- the success or failure of the implementation;
- the identification of the user or the system who/what triggered the event.

All of the essential event logs are available to the independent system auditors, who examine the compliance of the *Qualified Time-Stamping Provider's* operation.

## 4.2 Records Archival

### 4.2.1 Retention Period for Archive

The *Qualified Time-Stamping Provider* preserves the archived data for the time periods below:

- *Qualified Time-Stamping Practice Statement*: 10 years after the repeal;
- main data related to the issuance of the *Time Stamp* for at least 10 years after the issuance.

## 5 Compliance Audit and Other Assessments

The operation of the *Qualified Time-Stamping Provider* is supervised by the National Media and Infocommunications Authority in line with European Union regulations. The National Media and Infocommunications Authority holds site inspections on at least yearly basis at the *Qualified Time-Stamping Provider* location. Before the site inspection, the *Qualified Time-Stamping Provider* has a screening of its operations by an external auditor and sends the detailed report of the screening to the National Media and Infocommunications Authority within 3 days from its receipt. During the screening it is to be determined whether the operation of the *Qualified Time-Stamping Provider* meets the requirements of the eIDAS Regulation [1] and the related Hungarian legislation and the requirements of the applied *Qualified Time-Stamping Policy(s)* and the corresponding *Qualified Time-Stamping Practice Statement(s)*.

The subject and methodology of the screening complies with the following normative documents:

- REGULATION (EU) No 910/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 23 July 2014 on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC [1];
- ETSI EN 319 403 V2.2.2 (2015-08) Electronic Signatures and Infrastructures (ESI); Trust Service Provider Conformity Assessment - Requirements for conformity assessment bodies assessing Trust Service Providers; [5]
- ETSI EN 319 401 V2.1.1 (2016-02); Electronic Signatures and Infrastructures (ESI); General Policy Requirements for Trust Service Providers [4]
- ETSI EN 319 421 V1.1.1 (2016-03); Electronic Signatures and Infrastructures (ESI); Policy and Security Requirements for Trust Service Providers issuing Time-Stamps. [6]

The result of the screening is a confidential document accessible only to authorized persons.

The conformity certificate issued in accordance with the conformity assessment report is published on the webpage of the *Qualified Time-Stamping Provider*.

The *Qualified Time-Stamping Provider* applies verified and certified elements (electronic signature production IT system elements) in connection with the service.

The *Qualified Time-Stamping Provider* uses the following cryptographic modules for the certification of the *Time Stamps*, and for the provider private key storage:

- nCipher nShield F3 PCI nC4032P-150, firmware verzió: 2.18.15-3;
- nCipher nShield F3 PCI nC4032P-150, firmware verzió: 2.22.6-3;
- nCipher nShield F3 PCI nC4033P-500, firmware verzió: 2.33.60-3;
- nCipher nShield F3 PCI nC4033P-500, firmware verzió: 2.38.7-3;
- nCipher nShield F3 PCIe nC4433E-500, firmware verzió: 2.61.2-3.

The above devices have FIPS 140-2 [10] Level 3 certification.

The *Qualified Time-Stamping Provider* has rated every one of the system elements used for providing the services into security classes on the basis of its risk assessment system. The *Qualified Time-Stamping Provider* keeps records about these system elements and the security ratings associated with them in the scope of its risk management system.

In addition to the external audit, the *Qualified Time-Stamping Provider* also has its proprietary internal auditing system, which regularly examines compliance with previous audits, and takes the necessary steps in case of deviations.

The *Qualified Time-Stamping Provider* has an ISO 9001 standard compliant quality management system since 2002, moreover an ISO 27001 (formerly BS 7799) compliant information security management system since 2003, which are continuously audited and reviewed by an external auditing organisation.

## 6 Other Business and Legal Matters

### 6.1 Financial Responsibility

#### 6.1.1 Insurance or Warranty Coverage for End-entities

- The *Qualified Time-Stamping Provider* has liability insurance to ensure reliability.
- The liability insurance policy shall cover the following damages caused by the *Qualified Time-Stamping Provider* in connection with the provision of services:

- damages caused by the breach of the service agreement to the trust service *Clients*;
  - damages caused out of contract to the trust service *Clients* or third parties;
  - damages caused to the National Media and Infocommunications Authority by the *Qualified Time-Stamping Provider* terminating the provision of the trust service;
  - under the eIDAS Regulation [1] 17. article (4) e) point, the legal costs of conformity assessment bodies to perform a conformity assessment by the request of the National Media and Infocommunications Authority if it enforces the costs as legal costs.
- The liability insurance policy shall cover at least for 3 000 000 Hungarian forints. Coincidental damages occurred for the same reason constitute a single insurance event.
  - The liability insurance shall provide coverage for the full damage of the injured party – up to the liability limit – arising in context of the harmful behaviour of the *Qualified Time-Stamping Provider* regardless of whether the damage was caused by breach of contract or outside the contract.
  - If the valid claim of several entitled parties related to an insurance event exceeds the liability limit defined for an insurance event in the liability insurance, then the compensation of the claims takes place in the proportion of the liability limit to the total sum of the claims.

## 6.2 Privacy of Personal Information

### 6.2.1 Privacy Plan

The *Qualified Time-Stamping Provider* has a Privacy Policy for data processing that contains detailed requirements for the personal data management. The Privacy Policy for data processing is published on the webpage of the e-Szignó Certification Authority on the following URL: <https://e-szigno.hu/letoltesek/dokumentumok-es-szabalyzatok/>

## 6.3 Representations and Warranties

### 6.3.1 CA Representations and Warranties

#### Certification Authority's Responsibility

The responsibility of the *Qualified Time-Stamping Provider* is in the *Qualified Time-Stamping Practice Statement*, the related *Certificate Policies*, and the service agreement with the *Client* and its attachments.

- The *Qualified Time-Stamping Provider* assumes responsibility for compliance with the procedures described in *Certificate Policies* it supports;



- The *Qualified Time-Stamping Provider* assumes responsibility as its own for the damages caused during the provision of the service by its subcontractors;
- The *Qualified Time-Stamping Provider* is liable under the rules of liability for breach of contract in the Civil Code of the Republic of Hungary [2] in relation to the *Clients* which are in a contractual relationship with it.
- The *Qualified Time-Stamping Provider* is liable under the rules of causing damage outside of contract in the Civil Code of the Republic of Hungary [2] in relation to third parties (such as the *Relying Party*) that are not in a contractual relationship with it.
- The *Qualified Time-Stamping Provider* will pay compensation for damages with the limitations specified in its regulations, and the service contracts concluded with Clients for proven damages that occur in the scope of its responsibility (see the section Limitation of Liability 6.4.).
- If the valid claim of several entitled parties related to an insurance event exceeds the amount defined for an insurance event in the liability insurance for the damages, then the compensation of the claims takes place in a relative ratio to the amount determined in the liability contract.

The *Qualified Time-Stamping Provider* is not responsible for the regulations issued by the *Relying Parties* or others.

### **Certification Authority Obligations**

The *Qualified Time-Stamping Provider* shall fulfil the requirements defined in section (2) of article 24. of the eIDAS regulation [1].

The *Qualified Time-Stamping Provider's* basic obligations is that it shall provide the services in line with the *Qualified Time-Stamping Policy*, this *Qualified Time-Stamping Practice Statement* and other regulations in the public domain, the contractual terms and conditions, furthermore corporate and security related internal regulations. These basic obligations are as follows:

- to establish the legal, regulatory, material, contractual, etc. framework appropriate for the service;
- to provide high standard and secure services in accordance with the applicable regulations;
- to continuously operate and audit organisations associated with the services (certification body, customer service, etc.);
- to abide by the procedures prescribed in the regulations, and to avoid or eliminate any potentially occurring incorrect operation;

- to ensure the Services to every applicant who accepts the terms and conditions specified in the regulations;
- to maintain public and proprietary records, as well as to make them continuously available to anybody over the internet.

### 6.3.2 Subscriber Representations and Warranties

#### **Subscriber Responsibility**

The responsibility of the *Subscriber* is set by the service agreement and its attachments (including the terms and conditions).

#### **Subscriber Obligations**

The responsibility of the *Subscriber* is to act in accordance with the contractual terms and regulations of the *Qualified Time-Stamping Provider* while using the service .

The obligations of the *Subscriber* are determined by this *Qualified Time-Stamping Practice Statement*, the service agreement and the standard policy conditions and other documents forming an integral part with it, as well as the relevant *Qualified Time-Stamping Policys*.

#### **Subscriber Rights**

- *Subscribers* have the right to use the services in accordance with this *Qualified Time-Stamping Practice Statement*.

### 6.3.3 Relying Party Representations and Warranties

The *Relying Parties* decide based on their discretion and/or their policies about the way of accepting and using the *Time Stamps*. During the verification of the validity for keeping the security level guaranteed by the *Qualified Time-Stamping Provider* it is necessary for the *Relying Party* to act with caution, so it is particularly recommended to:

- comply with the requirements, regulations defined in the present *Qualified Time-Stamping Policy* and the corresponding *Qualified Time-Stamping Practice Statement*;
- use reliable IT environment and applications;
- verify the the revocation status of the *Certificate* used for signing the *Time Stamp* based on the current CRL or OCSP response;

- take into consideration every restriction in relation to the *Time Stamp* usage which is included in the *Qualified Time-Stamping Policy* and the *Qualified Time-Stamping Practice Statement*.

#### 6.4 Limitations of Liability

The *Qualified Time-Stamping Provider* limits the obligation for the loss related to the service, the extent of this limitation is 100 000 HUF per incident.

If the valid claim of several entitled parties related to an insurance event exceeds the amount defined for an insurance event in the liability insurance for the loss, then the compensation of the claims takes place in a relative ratio to the amount determined in the liability contract.

#### 6.5 Dispute Resolution Provisions

The *Qualified Time-Stamping Provider* aims for the peaceful and negotiated settlement of the disputes arising from its operation. The settlement follows the principle of gradual approach.

The *Qualified Time-Stamping Provider* and the *Client* mutually agree that in the case of any disputed issue or complaint arising whatsoever, they will attempt amicable consultation through negotiation before taking the dispute to legal channels. The initiating party will be obliged to notify every other affected party promptly and to inform them fully concerning all of the case's implications.

The *Client* in case of a deputation is entitled to appeal to the Arbitration Board of Budapest before incidental judicial proceedings.

Questions, objections, and complaints related to the activity of the *Qualified Time-Stamping Provider* shall be addressed to the customer care centre office in written form. The *Qualified Time-Stamping Provider* notifies submitting parties at the address they specify about having received a submission and the time required for investigation, within 3 business days calculated as of receiving a submission. The *Qualified Time-Stamping Provider* is obliged to issue a written response to the submitter within the specified time limit. The *Qualified Time-Stamping Provider* may request the provision of information required for giving a response from the submitter. The *Qualified Time-Stamping Provider* investigates complaints within 30 days, and notifies submitters about the results thereof.

Should a submitter find the response inadequate or if the dispute which had arisen can not be settled based on it without getting the *Qualified Time-Stamping Provider* involved, the submitter may initiate consultation with the *Qualified Time-Stamping Provider* and the *Relying Parties*. All participants of such consultation shall be given written notice regarding the date of consultation 10 business days in advance thereof; and the submission, the *Qualified Time-Stamping Provider's* response, as well as any documents containing other required information shall be sent to them in writing.

Should consultation fail to achieve a result within 30 business days calculated as of a complaint being submitted, the submitter may file a lawsuit with respect to the issue. The *Relying Parties* shall subject themselves to the sole jurisdiction of the II. and III. District Court of Budapest and/or that of the Municipal Court of Budapest.

## **6.6 Governing Law**

The *Qualified Time-Stamping Provider* at all times operates in accordance with the Hungarian legislation in force. The Hungarian law is the proper law of the *Qualified Time-Stamping Provider* contracts, regulations, and their execution, and they are to be construed by the Hungarian law.

## A REFERENCES

- [1] Regulation (EU) No 910/2014 of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC .
- [2] (Hungarian) Act V of 2013. on the Civil Code .
- [3] ETSI EN 319 102-1 V1.1.1 (2016-05); Electronic Signatures and Infrastructures (ESI); Procedures for Creation and Validation of AdES Digital Signatures; Part 1: Creation and Validation.
- [4] ETSI EN 319 401 V2.2.0 (2017-08); Electronic Signatures and Infrastructures (ESI); General Policy Requirements for Trust Service Providers.
- [5] ETSI EN 319 403 V2.2.2 (2015-08) Electronic Signatures and Infrastructures (ESI); Trust Service Provider Conformity Assessment - Requirements for conformity assessment bodies assessing Trust Service Providers;.
- [6] ETSI EN 319 421 V1.1.1 (2016-03); Electronic Signatures and Infrastructures (ESI); Policy and Security Requirements for Trust Service Providers issuing Time-Stamps.
- [7] ETSI EN 319 422 V1.1.1 (2016-03); Electronic Signatures and Infrastructures (ESI); Time-stamping protocol and time-stamp token profiles.
- [8] ETSI TS 119 312 V1.2.1 (2017-05); Electronic Signatures and Infrastructures (ESI); Cryptographic Suites.
- [9] IETF RFC 3161: Internet X.509 Public Key Infrastructure - Time-Stamp Protocol (TSP), August 2001.
- [10] FIPS PUB 140-2 (2001 May 25): Security Requirements for Cryptographic Modules.
- [11] e-Szignó Certification Authority - eIDAS conform Qualified Time Stamping Policy.