

## SLOVENSKI STANDARD SIST EN 319 401 V2.3.1:2021

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#### Elektronski podpisi in infrastruktura (ESI) - Splošne zahteve politike za ponudnike storitev zaupanja

Electronic Signatures and Infrastructures (ESI) - General Policy Requirements for Trust Service Providers

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## ETSI EN 319 401 V2.3.1 (2021-05)



# Electronic Signatures and Infrastructures (ESI); General Policy Requirements for Trust Service Providers

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## **Foreword**

SIST EN 319 401 V2.3.1:2021

This European Standard (EN) has been produced by ETSI Technical Committee Electronic Signatures and Infrastructures (ESI). 9284c833acc1/sist-en-319-401-v2-3-1-2021

| National transposition dates   |                  |
|--|------------------|
| Date of adoption of this EN:   | 12 May 2021      |
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| Date of latest publication of new National Standard or endorsement of this EN (dop/e): | 28 February 2022 |
| Date of withdrawal of any conflicting National Standard (dow):                         | 28 February 2022 |

## Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the <u>ETSI Drafting Rules</u> (Verbal forms for the expression of provisions).

"must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

## Introduction

Building trust in the online environment is key to economic and social development. Lack of trust, in particular because of a perceived lack of security, makes consumers, businesses and administrations hesitate to carry out transactions electronically and to adopt new services. Trust service providers are often an essential element to establish trust between parties transacting electronically, particularly in open public networks, and can be used, for example, to provide trusted identity information and help establish secure communications between transacting parties. Examples of such trust service providers are issuers of public key certificates, time-stamping service providers, providers of remote electronic signature generation or validation services.

For participants of electronic commerce to have confidence in the security of these trust services they need to have confidence that the Trust Service Providers (TSPs) have established a set of procedures, processes and security measures in order to minimize the operational and financial threats and risks associated.

The present document specifies baseline policy requirements on the operation and management practices of TSP regardless the service they provide. Other standards, addressing particular type of trust service, can build on the present document to identify supplement requirements for particular type of trust service.

The present document is aiming to meet the general requirements to provide trust and confidence in electronic transactions including, amongst others, applicable requirements from Regulation (EU) No 910/2014 [i.2] and those from CA/Browser Forum [i.4].

**EXAMPLE:** 

ETSI EN 319 411-2 [i.11] annex A describes the application of the present document to the requirements of Regulation (EU) No 910/2014 [i.2] requirements for TSPs issuing EU qualified certificates.

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## 1 Scope

The present document specifies general policy requirements relating to Trust Service Providers (TSPs) that are independent of the type of TSP. It defines policy requirements on the operation and management practices of TSPs.

Other specifications refine and extend these requirements as applicable to particular forms of TSP. The present document does not specify how the requirements identified can be assessed by an independent party, including requirements for information to be made available to such independent assessors, or requirements on such assessors.

NOTE: See ETSI EN 319 403 [i.6] for details about requirements for conformity assessment bodies assessing Trust Service Providers.

### 2 References

#### 2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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The following referenced documents are necessary for the application of the present document.

Not applicable.

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## 2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

| [i.1] | Directive 95/46/EC of the European Parliament and of the Council of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data.                       |
|-------|--|
| [i.2] | 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. |
| [i.3] | ISO/IEC 27002:2013: "Information technology - Security techniques - Code of practice for information security management".   |
| [i.4] | CA/Browser Forum: "Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates".  |
| [i.5] | ISO/IEC 27005:2011: "Information technology - Security techniques - Information security risk management".   |

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| [i.6]  | ETSI EN 319 403: "Electronic Signatures and Infrastructures (ESI); Trust Service Provider Conformity Assessment - Requirements for conformity assessment bodies assessing Trust Service Providers".  |
|--------|--|
| [i.7]  | CA/Browser Forum: "Network and certificate system security requirements".  |
| [i.8]  | Recommendation ITU-R TF.460-6 (2002): "Standard-frequency and time-signal emissions".  |
| [i.9]  | ETSI EN 319 411-1: "Electronic Signatures and Infrastructures (ESI); Policy and Security Requirements for Trust Service Providers issuing certificates; Part 1: General requirements".   |
| [i.10] | ETSI EN 301 549: "Accessibility requirements for ICT products and services".   |
| [i.11] | ETSI EN 319 411-2: "Electronic Signatures and Infrastructures (ESI); Policy and Security Requirements for Trust Service Providers issuing certificates; Part 2: Requirements for trust service providers issuing EU qualified certificates".         |
| [i.12] | Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC. |
| [i.13] | ETSI TS 119 431-1: "Electronic Signatures and Infrastructures (ESI); Policy and security requirements for trust service providers; Part 1: TSP service components operating a remote QSCD / SCDev".  |
| [i.14] | ISO/IEC 27701:2019: "Security techniques - Extension to ISO/IEC 27001 and ISO/IEC 27002 for privacy information management - Requirements and guidelines".   |

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# 3 Definition of terms, symbols, abbreviations and notation

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#### 3.1 Terms

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For the purposes of the present document, the following terms apply:

**Coordinated Universal Time (UTC):** time scale based on the second as defined in Recommendation ITU-R TF.460-6 [i.8]

relying party: natural or legal person that relies upon an electronic identification or a trust service

NOTE: Relying parties include parties verifying a digital signature using a public key certificate.

subscriber: legal or natural person bound by agreement with a trust service provider to any subscriber obligations

trust service: electronic service for:

- creation, verification, and validation of digital signatures and related certificates;
- creation, verification, and validation of time-stamps and related certificates;
- registered delivery and related certificates;
- creation, verification and validation of certificates for website authentication; or
- preservation of digital signatures or certificates related to those services.

trust service component: one part of the overall service of a TSP

EXAMPLE: Those identified in clause 4.4 of ETSI EN 319 411-1 [i.9]. Also, ETSI TS 119 431-1 [i.13] defines requirements for a Server Signing Application Service Component (SSASC) which can be implemented as part of TSP's service which also includes other service components.

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NOTE: Other standards, including ETSI standards, can specify requirements for other service components which can form part of a wider TSP's service.

**trust service policy:** set of rules that indicates the applicability of a trust service to a particular community and/or class of application with common security requirements

NOTE:

A trust service policy describes *what* is offered and provides information about the level of the service. It is defined independently of the specific details of the specific operating environment of a TSP; a trust service policy can apply to a community to which several TSPs belong that abide by the common set of rules specified in that policy. It can be defined for example by the TSP, by standards, by national (e.g. government) or international organizations, by the customers (subscribers) of the TSP and it is not necessarily part of the TSP's documentation.

**trust service practice statement:** statement of the practices that a TSP employs in providing a trust service

NOTE: See clause 6.2 for further information on practice statement.

Trust Service Provider (TSP): entity which provides one or more trust services

trust service token: physical or binary (logical) object generated or issued as a result of the use of a trust service

NOTE: Examples of trust service tokens are: certificates, CRLs, time-stamp tokens, OCSP responses.

## 3.2 Symbols

Void.

## 3.3 Abbreviations STANDARD PREVIEW

For the purposes of the present document, the following abbreviations apply:

CA Certification Authority SIST EN 319 401 V2.3.1:2021

IP Internet Protocolards.iteh.ai/catalog/standards/sist/60d9741e-1feb-4b65-bffd-

IT Information Technology 33acc1/sist-en-319-401-v2-3-1-2021

SSASC Server Signing Application Service Component

TSP Trust Service Provider UTC Coordinated Universal Time

### 3.4 Notation

The requirements in the present document are identified as follows:

<the 3 letters REQ> - < the clause number> - <2 digit number - incremental>

The management of the requirement identifiers throughout subsequent editions of the present document is as follows:

- When a requirement is inserted at the end of a clause, the 2 digit number above is incremented to the next available digit.
- When a requirement is inserted between two existing requirements, capital letters appended to the previous requirement identifier are used to distinguish a new requirement.
- The requirement identifier for deleted requirements are left and completed with "Void".
- The requirement identifier for modified requirement are left void and the modified requirement is identified by capital letter(s) appended to the initial requirement number.

## 4 Overview

Trust services can encompass but is not limited to the issuance of public key certificates, provision of registration services, time-stamping services, long term preservation services, e-delivery services and/or signature validation services.

These policy requirements are not meant to imply any restrictions on charging for TSP's services.

The requirements are indicated in terms of the security objectives followed by more specific requirements for controls to meet those objectives where considered necessary to provide the necessary confidence that those objectives will be met.

When implementing controls of clause 7, ISO/IEC 27002:2013 [i.3] should be applied.

NOTE: The details of controls required to meet an objective is a balance between achieving the necessary confidence whilst minimizing the restrictions on the techniques that a TSP can employ in providing services

### 5 Risk Assessment

**REQ-5-01:** The TSP shall carry out a risk assessment to identify, analyse and evaluate trust service risks taking into account business and technical issues.

**REQ-5-02:** The TSP shall select the appropriate risk treatment measures, taking account of the risk assessment results. The risk treatment measures shall ensure that the level of security is commensurate to the degree of risk.

NOTE: See ISO/IEC 27005:2011 [i.5] for guidance on information security risk management as part of an information security management system ros.iteh.a1

**REQ-5-03:** The TSP shall determine all security requirements and operational procedures that are necessary to implement the risk treatment measures chosen, as documented in the information security policy and the trust service practice statement (see clause 6). standards. iteh.ai/catalog/standards/sist/60d9741e-1feb-4b65-bfid-9284c833acc1/sist-en-319-401-v2-3-1-2021

**REQ-5-04:** The risk assessment shall be regularly reviewed and revised.

**REQ-5-05:** The TSP's management shall approve the risk assessment and accept the residual risk identified.

## 6 Policies and practices

### 6.1 Trust Service Practice statement

**REQ-6.1-01:** The TSP shall specify the set of policies and practices appropriate for the trust services it is providing.

**REQ-6.1-02:** The set of policies and practices shall be approved by management, published and communicated to employees and external parties as relevant.

In particular:

- REQ-6.1-03: Void.
- **REQ-6.1-03A:** The TSP shall have a statement of the practices and procedures used to address all the requirements of the applicable trust service policy as identified by the TSP.

NOTE 1: The present document makes no requirement as to the structure of the trust service practice statement.

- **REQ-6.1-04:** The TSP's trust service practice statement shall identify the obligations of all external organizations supporting the TSP's services including the applicable policies and practices.
- REQ-6.1-05: Void.