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Elektronski podpisi in infrastruktura (ESI) - Zagotavljanje usklajenih statusnih informacij ponudnikov storitev zaupanja

Electronic Signatures and Infrastructures (ESI) - Provision of harmonized Trust Service Provider status information

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Technical Specification

Electronic Signatures and Infrastructures (ESI); Provision of harmonized Trust Service Provider status information

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Electronic Signatures and Infrastructures (ESI).

Introduction

The purpose of a Trust-service Status List (TSL), and hence of the present document, is to provide a harmonized way in which schemes having an oversight role with regards to trust services and their providers (trust service providers - TSPs) can publish information about the services and TSPs which they currently oversee, or indeed (through the provision of historical information) have overseen.

The present document is based upon the reasoning that it will enhance the confidence of parties relying on certificates or other services related to electronic signatures if they had access to information that would allow them to know whether a given TSP was operating under the approval of any recognized at the time of providing their services and of any dependent transaction that took place.

The information should be available for a wide range of services and schemes, including the use of Qualified Certificates. The importance of this information is especially significant for cross-domain and international transactions. This information should preferably be accessible using an on-line protocol, although accessibility both off-line and on-line should be possible.

Entities having such an oversight role could be supervisory systems or voluntary approval schemes as defined in Directive 1999/93/EC (see bibliography), similar schemes established by other sovereign states or economies (e.g. certain government e-authentication frameworks), and those established by specific industry sectors or for international promotion of trust services.

1 Scope

The present document specifies a standard for a Trust-service Status List making available trust service status information. In addition, it gives guidelines for access to and the use of such status information.

The present document is applicable to scheme operators responsible for the approval of trust services and to those who wish to rely on such information.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

- [1] ISO 639-1: "Codes for the representation of names of languages - Part 1: Alpha-2 code".
- [2] IETF RFC 1766: "Tags for the Identification of Languages".
- [3] ISO 3166-1: "Codes for the representation of names of countries and their subdivisions - Part 1: Country codes".
- [4] IETF RFC 2396: "Uniform Resource Identifiers (URI): Generic Syntax".
- [5] ITU-T Recommendation X.509: "Information technology - Open Systems Interconnection - The Directory: Public-key and attribute certificate frameworks".
- [6] IETF RFC 2253: "Lightweight Directory Access Protocol (v3): UTF-8 String Representation of Distinguished Names".
- [7] IETF RFC 2141: "URN Syntax".
- [8] ITU-R Recommendation TF.460-5: "Standard-Frequency and Time-Signal Emissions".
- [9] IETF RFC 3280: "Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile".

3 Definitions and abbreviations

3.1 Definitions

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

approval: assertion that a(n electronic trust) service, falling within the oversight of a particular scheme, has been either positively endorsed (active approval) or has received no explicit restriction since the time at which the scheme was aware of the existence of the said service (passive approval)

(electronic) trust service: service which enhances trust and confidence in electronic transactions (typically but not necessarily using cryptographic techniques or involving confidential material)

scheme: any organized process of supervision, monitoring, approval or such practices that are intended to apply oversight with the objective of ensuring adherence to specific criteria in order to maintain confidence in the services under the scope of the scheme

scheme operator: body responsible for the operation and/or management of any kind of scheme, whether they be governmental, industry or private, etc.

Trust Service Provider (TSP): body operating one or more (electronic) trust services

NOTE: This embraces a wide range of services which may relate to electronic signatures and is broader than the provision of certification services alone, and hence is used in preference to and with a broader application than, the term certification-service-provider used in Directive 1999/93/EC.

3.2 Abbreviations

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

ASN	Abstract Syntax Notation
CA	Certification Authority
CRL	Certificate Revocation List
EU	European Union
OCSP	Online Certificate Status Protocol
PKC	Public Key Certificate
PKI	Public Key Infrastructure
TSL	Trust-service Status List
TSP	Trust Service Provider
URI	Uniform Resource Identifier
URN	Uniform Resource Name
UTC	Coordinated Universal Time
WWW	World Wide Web
XML	eXtensible Markup Language

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4 TSP status information

The present document specifies a standard for the provision of trust service status information. In recognition of the selection of a form of signed list as the basis for presentation of this information, the term Trust-service Status List (TSL) is adopted. Each scheme which maintains a TSL in accordance with the present document must comply with the format and semantics specified in clause 5. Each such scheme must operate against specific criteria for determining the status of TSPs and trust services which it recognizes: a scheme operator could, therefore, operate more than one discrete scheme.

It should be noted that the present document addresses only the type, format and meaning of information which may be presented in a TSL and does not define how that information should be sourced. Nor does it specify the criteria which schemes should use to determine the status of any trust services falling within their remit - such criteria remain the responsibility of the scheme operators. Furthermore, it does not specify how any status or scheme-related information should be presented outside the context of a TSL, e.g. on schemes' websites.

Each scheme adopting this TSL standard must be able to support the provision of status information in each of the following forms:

- Human readable in hard-copy form;
- Human readable in a format readily down-loadable and printable;
- Machine processable to allow automatic verification of status information.

The TSL specified by the present document accommodates the requirement as to "*whether the provider of a trust service is or was operating under the approval of any recognized scheme at either the time the service was provided, or the time at which a transaction reliant on that service took place*". In order to fulfil this requirement, Trust-service Status Lists must necessarily contain information from which it can be established whether the TSP's service was, at the time of the transaction, known by the scheme operator and if so the status of the service, i.e. whether it was approved, suspended, cancelled, revoked, etc. The Trust-service Status List must therefore contain not only the service's current status, but also the history of its status. The TSL must therefore, because of this requirement upon it, be a combination of "white list" and "black list", including historical information.

The TSL specified by the present document therefore has four major components, in a structured relationship. These components:

- provide information on the issuing scheme;
- identify the TSPs recognized by the scheme;
- indicate the service(s) provided by these TSPs and the current status of the service(s);
- indicate for each service the status history of that service.

The logic of the list is that, once the scheme operator has become aware of the existence of the TSP (whether by some pro-active action on the part of the TSP or by the scheme's own supervision of the marketplace), the particular status as determined according to the scheme rules is either the present status of the TSP's service (i.e. only current status, no history) or is seamlessly followed by a sequence of one or more statuses (current status and history). Note that if a trust service was approved until a certain date/time and there was a period in between the expiry of the approval and the start of the re-approval, then a status identifier would provide the information for that interim period. The "interim status" would either be cancelled (voluntarily, by the TSP) or revoked (by the scheme, with reasons).

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5 Trust-service Status List structure

This clause specifies the Trust-service Status List structure. Each of the fields within the TSL is described to a level of detail sufficient to permit any scheme operator to implement a standardized TSL, consistent with any other TSL conformant to the present document, with specified values, meanings and interpretations given for each field. Whether the inclusion of a field is mandatory or optional is indicated. The rationale for requiring each field and specifying it as given is explained in annex E.

5.1 Structure of the Trust-service Status List

The logical model of the Trust-service Status List is shown in figure 1. It has four logical component parts, all but the first of which may be replicated as required.

The list commences with key information about the list itself and the nature of the scheme which has determined the information found in, and through, the list (component 1). The specified set of information must include a pointer (URN) to details of the scheme and how its operator may be contacted. Whilst the objective has been to keep the size of the TSL to the minimum consistent with its purpose and the requirements placed upon it, certain key information which one would expect to be found in the scheme details must be provided directly within the TSL itself so as to facilitate either easy recognition and contact with the scheme or machine processing.

Following this scheme-related information there comes information relating to the Trust Service Providers (TSPs) whose services are within the scope of the scheme (component 2), and for each of those TSPs, the details of their specific trust services whose current status is recorded within the TSL (component 3). For each service, any available historical status information is recorded (component 4). The number of TSPs, of services per TSP, and of history sections per service is unbounded.

The TSL is a signed list for authentication purposes and is tagged to facilitate identification for electronic searches. The structure of the TSL is described in the following clauses by each component part and its fields.

5.1.1 Trust-service Status List information

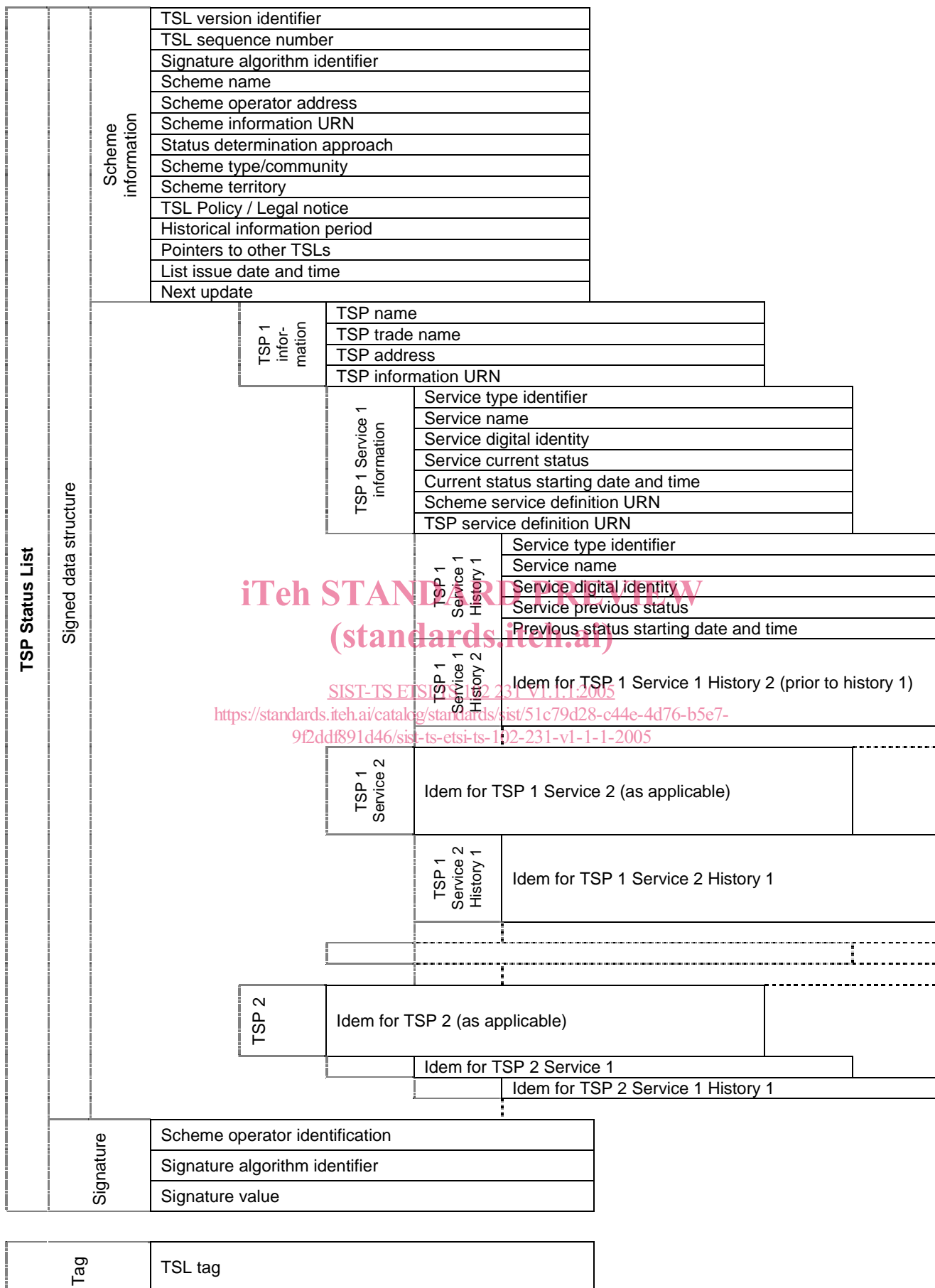
Description: This field represents all the structured information and shall contain the following:

- a) Scheme information, as specified in clause 5.2;
- b) A sequence of fields containing information on the TSPs that the scheme oversees. This sequence is mandatory. The contents of the TSP information field are specified in clause 5.3;
- c) For each TSP, a sequence of fields containing information on the service(s) provided by that TSP. This sequence is optional. The contents of the service information field are specified in clause 5.4;
- d) For each service, a sequence of fields containing information on the status history of that service. This sequence is optional. The contents of the history information field are specified in clause 5.5;
- e) A signature computed over all fields of the TSL except the signature value specified in clause 5.6.4. The contents of the signature field are specified in clause 5.6.

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Figure 1: Logical model of the TSP Status List

- f) A Trust-service Status List tag to facilitate identification of the TSL for electronic searches. The contents of the tag are specified in clause 5.7.

NOTE: Dependent on the implementation, the tag location could be at the front of the TSL, at the end of the TSL or completely disconnected from the TSL. The logical model in Figure 1 shows the tag disconnected from the TSL. See annexes A and B for tag specifications using ASN.1 and XML implementations respectively.

5.2 Scheme information

5.2.1 TSL version identifier

Description: This field is mandatory. It shall specify the version of the TSL format.

Format: Integer.

Value: The value of the identifier for TSLs conforming to this version of the present document shall be 1.

5.2.2 TSL sequence number

Description: This field is mandatory. It shall specify the sequence number of the TSL.

Format: Integer.

Value: At the first release of the TSL, the value of the sequence number shall be 1. The value shall be increased by 1 at each subsequent release of the TSL.

5.2.3 Signature algorithm identifier

Description: This field is mandatory. It shall specify the cryptographic algorithm that has been used to create the signature. This field provides a copy of the signature algorithm identifier specified in clause 5.6.3 and the two fields must be identical.

Format: Representation format dependent: character string or bit string.

Meaning: The information in this field is depending on the signature format used (see clause 5.6).

5.2.4 Scheme name

Description: This field is mandatory. It shall specify the name under which the scheme operates.

Format: Unicode character string or a sequence of Unicode character strings encoded in UTF-8, specifying the language used in accordance with ISO 639-1 Alpha 2 code [1] for the representation of names of languages. Where multiple languages are used, their representation shall be conformant with RFC 1766 [2].

Meaning: The name of the scheme must be the name which is used in formal legal registrations and to which any formal communication, whether physical or electronic, should be addressed. Local language and cross-border (international) trading considerations may require that this information be provided both in a national language (and script) and in a commonly accepted internationally-used language.

5.2.5 Scheme operator address

Description: This field is mandatory. It shall specify the address of the legal identity identified in clause 5.2.4, for both postal and electronic communications. Users (subscribers, relying parties) should use this address as the contact point for enquiries, complaints, etc. to the scheme operator.

This is a multi-part field consisting of the scheme operator physical address specified in clause 5.2.5.1 and the scheme operator electronic address specified in clause 5.2.5.2.