



SLOVENSKI STANDARD
oSIST ISO/IEC DIS 29361:2007
01-julij-2007

Informacijska tehnologija — Osnovni profil, verzija 1.1

Information technology — Basic Profile Version 1.1

Technologies de l'information — Version 1.1 de profil de base

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Attributed to ISO/IEC JTC 1 by the Central Secretariat (see page iii)

Voting begins on
2006-12-18

Voting terminates on
2007-06-18

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PUBLICLY AVAILABLE SPECIFICATION PROCEDURE

Information technology — Basic Profile Version 1.1

Technologies de l'information — Version 1.1 de profil de base

ICS 35.100.05

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In accordance with Resolution 30 of the JTC 1 Berlin Plenary 1993, the proposer of this document recommends assignment of ISO/IEC 29361 to JTC 1.

See also explanatory report.

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1 Any P-member and any Category A liaison organization of ISO/IEC JTC 1 may propose that an existing standard from any source be submitted directly for vote as a DIS. The criteria for proposing an existing standard for the fast-track procedure are a matter for each proposer to decide.

2 The proposal shall be received by the ITTF which will take the following actions.

2.1 To settle the copyright and/or trade mark situation with the proposer, so that the proposed text can be freely copied and distributed within JTC 1 without restriction.

2.2 To assess in consultation with the JTC 1 secretariat which SC is competent for the subject covered by the proposed standard and to ascertain that there is no evident contradiction with other International Standards.

2.3 To distribute the text of the proposed standard as a DIS. In case of particularly bulky documents the ITTF may demand the necessary number of copies from the proposer.

3 The period for combined DIS voting shall be six months. In order to be accepted the DIS must be supported by 75 % of the votes cast (abstention is not counted as a vote) and by two-thirds of the P-members voting of JTC 1.

4 At the end of the voting period, the comments received, whether editorial only or technical, will be dealt with by a working group appointed by the secretariat of the relevant SC.

5 If, after the deliberations of this WG, the requirements of 3 above are met, the amended text shall be sent to the ITTF by the secretariat of the relevant SC for publication as an International Standard.

If it is impossible to agree to a text meeting the above requirements, the proposal has failed and the procedure is terminated.

In either case the WG shall prepare a full report which will be circulated by the ITTF.

6 If the proposed standard is accepted and published, its maintenance will be handled by JTC 1.

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Basic Profile Version 1.1

Final Material

2006-04-10

This version:

<http://www.ws-i.org/Profiles/BasicProfile-1.1-2006-04-10.html>

Latest version:

<http://www.ws-i.org/Profiles/BasicProfile-1.1.html>

Errata for this Version:

<http://www.ws-i.org/Profiles/BasicProfile-1.1-errata-2006-04-10.html>

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Abstract

This document defines the WS-I Basic Profile 1.1, consisting of a set of non-proprietary Web services specifications, along with clarifications, refinements, interpretations and amplifications of those specifications which promote interoperability

Status of this Document

This is a final specification. Please refer to the [errata](#), which may include normative corrections to it.

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Feedback

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1. Introduction

This document defines the WS-I Basic Profile 1.1 (hereafter, "Profile"), consisting of a set of non-proprietary Web services specifications, along with clarifications, refinements, interpretations and amplifications of those specifications which promote interoperability.

Section 1 introduces the Profile, and explains its relationships to other profiles.

Section 2, "Profile Conformance," explains what it means to be conformant to the Profile.

Each subsequent section addresses a component of the Profile, and consists of two parts; an overview detailing the component specifications and their extensibility points, followed by

subsections that address individual parts of the component specifications. Note that there is no relationship between the section numbers in this document and those in the referenced specifications.

1.1 Relationships to Other Profiles

This Profile is derived from the Basic Profile 1.0 by incorporating any errata to date and separating out those requirements related to the serialization of envelopes and their representation in messages. Such requirements are now part of the Simple SOAP Binding Profile 1.0, identified with a separate conformance claim. This separation is made to facilitate composability of Basic Profile 1.1 with any profile that specifies envelope serialization, including the Simple SOAP Binding Profile 1.0 and the Attachments Profile 1.0. A combined claim of conformance to both the Basic Profile 1.1 and the Simple SOAP Binding Profile 1.0 is roughly equivalent to a claim of conformance to the Basic Profile 1.0 plus published errata.

This Profile, composed with the Simple SOAP Binding Profile 1.0 supercedes the Basic Profile 1.0. The Attachments Profile 1.0 adds support for SOAP with Attachments, and is intended to be used in combination with this Profile.

1.2 Changes from Basic Profile Version 1.0

This specification is derived from the [Basic Profile Version 1.0](#), and incorporates published errata against that specification. The most notable changes are:

- MESSAGE conformance target - Some requirements that had a MESSAGE conformance target in BP1.0 now use a new target, ENVELOPE. This facilitates alternate serialisations of the message, such as that described in the Attachments Profile.
- SOAP Binding - Requirements relating to the SOAP binding's serialization of the message have been moved to the Simple SOAP Binding Profile to facilitate other serializations.

1.3 Guiding Principles

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The Profile was developed according to a set of principles that, together, form the philosophy of the Profile, as it relates to bringing about interoperability. This section documents these guidelines.

No guarantee of interoperability

It is impossible to completely guarantee the interoperability of a particular service. However, the Profile does address the most common problems that implementation experience has revealed to date.

Application semantics

Although communication of application semantics can be facilitated by the technologies that comprise the Profile, assuring the common understanding of those semantics is not addressed by it.

Testability

When possible, the Profile makes statements that are testable. However, such testability is not required. Preferably, testing is achieved in a non-intrusive manner (e.g., examining artifacts "on the wire").

Strength of requirements

The Profile makes strong requirements (e.g., MUST, MUST NOT) wherever feasible; if there are legitimate cases where such a requirement cannot be met, conditional requirements (e.g., SHOULD, SHOULD NOT) are used. Optional and conditional requirements introduce ambiguity and mismatches between implementations.

Restriction vs. relaxation

When amplifying the requirements of referenced specifications, the Profile may restrict them,

but does not relax them (e.g., change a MUST to a MAY).

Multiple mechanisms

If a referenced specification allows multiple mechanisms to be used interchangeably, the Profile selects those that are well-understood, widely implemented and useful. Extraneous or underspecified mechanisms and extensions introduce complexity and therefore reduce interoperability.

Future compatibility

When possible, the Profile aligns its requirements with in-progress revisions to the specifications it references. This aids implementers by enabling a graceful transition, and assures that WS-I does not 'fork' from these efforts. When the Profile cannot address an issue in a specification it references, this information is communicated to the appropriate body to assure its consideration.

Compatibility with deployed services

Backwards compatibility with deployed Web services is not a goal for the Profile, but due consideration is given to it; the Profile does not introduce a change to the requirements of a referenced specification unless doing so addresses specific interoperability issues.

Focus on interoperability

Although there are potentially a number of inconsistencies and design flaws in the referenced specifications, the Profile only addresses those that affect interoperability.

Conformance targets

Where possible, the Profile places requirements on artifacts (e.g., WSDL descriptions, SOAP messages) rather than the producing or consuming software's behaviors or roles. Artifacts are concrete, making them easier to verify and therefore making conformance easier to understand and less error-prone.

Lower-layer interoperability

The Profile speaks to interoperability at the application layer; it assumes that interoperability of lower-layer protocols (e.g., TCP, IP, Ethernet) is adequate and well-understood. Similarly, statements about application-layer substrate protocols (e.g., SSL/TLS, HTTP) are only made when there is an issue affecting Web services specifically; WS-I does not attempt to assure the interoperability of these protocols as a whole. This assures that WS-I's expertise in and focus on Web services standards is used effectively.

1.4 Notational Conventions

The keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119](#).

Normative statements of requirements in the Profile (i.e., those impacting conformance, as outlined in "[Conformance Requirements](#)") are presented in the following manner:

Rnnnn *Statement text here.*

where "nnnn" is replaced by a number that is unique among the requirements in the Profile, thereby forming a unique requirement identifier.

Requirement identifiers can be considered to be namespace qualified, in such a way as to be compatible with QNames from [Namespaces in XML](#). If there is no explicit namespace prefix on a requirement's identifier (e.g., "R9999" as opposed to "bp10:R9999"), it should be interpreted as being in the namespace identified by the conformance URI of the document section it occurs in. If it is qualified, the prefix should be interpreted according to the namespace mappings in effect, as documented below.

Some requirements clarify the referenced specification(s), but do not place additional constraints

upon implementations. For convenience, clarifications are annotated in the following manner: ^c

Some requirements are derived from ongoing standardization work on the referenced specification(s). For convenience, such forward-derived statements are annotated in the following manner: ^{xxxx}, where "xxxx" is an identifier for the specification (e.g., "WSDL20" for WSDL Version 2.0). Note that because such work was not complete when this document was published, the specification that the requirement is derived from may change; this information is included only as a convenience to implementers.

Extensibility points in underlying specifications (see "[Conformance Scope](#)") are presented in a similar manner:

Ennnn *Extensibility Point Name - Description*

where "nnnn" is replaced by a number that is unique among the extensibility points in the Profile. As with requirement statements, extensibility statements can be considered namespace-qualified.

This specification uses a number of namespace prefixes throughout; their associated URIs are listed below. Note that the choice of any namespace prefix is arbitrary and not semantically significant.

- **soap** - "http://schemas.xmlsoap.org/soap/envelope/"
- **xsi** - "http://www.w3.org/2001/XMLSchema-instance"
- **xsd** - "http://www.w3.org/2001/XMLSchema"
- **soapenc** - "http://schemas.xmlsoap.org/soap/encoding/"
- **wsdl** - "http://schemas.xmlsoap.org/wsdl/"
- **soapbind** - "http://schemas.xmlsoap.org/wsdl/soap/"
- **uddi** - "urn:uddi-org:api_v2"

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1.5 Profile Identification and Versioning

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This document is identified by a name (in this case, Basic Profile) and a version number (here, 1.1). Together, they identify a particular *profile instance*.

Version numbers are composed of a major and minor portion, in the form "major.minor". They can be used to determine the precedence of a profile instance; a higher version number (considering both the major and minor components) indicates that an instance is more recent, and therefore supersedes earlier instances.

Instances of profiles with the same name (e.g., "Example Profile 1.1" and "Example Profile 5.0") address interoperability problems in the same general scope (although some developments may require the exact scope of a profile to change between instances).

One can also use this information to determine whether two instances of a profile are backwards-compatible; that is, whether one can assume that conformance to an earlier profile instance implies conformance to a later one. Profile instances with the same name and major version number (e.g., "Example Profile 1.0" and "Example Profile 1.1") MAY be considered compatible. Note that this does not imply anything about compatibility in the other direction; that is, one cannot assume that conformance with a later profile instance implies conformance to an earlier one.

2 Profile Conformance

Conformance to the Profile is defined by adherence to the set of *requirements* defined for a specific *target*, within the *scope* of the Profile. This section explains these terms and describes how conformance is defined and used.

2.1 Conformance Requirements

Requirements state the criteria for conformance to the Profile. They typically refer to an existing specification and embody refinements, amplifications, interpretations and clarifications to it in order to improve interoperability. All requirements in the Profile are considered normative, and those in the specifications it references that are in-scope (see "Conformance Scope") should likewise be considered normative. When requirements in the Profile and its referenced specifications contradict each other, the Profile 's requirements take precedence for purposes of Profile conformance.

Requirement levels, using [RFC2119](#) language (e.g., MUST, MAY, SHOULD) indicate the nature of the requirement and its impact on conformance. Each requirement is individually identified (e.g., R9999) for convenience.

For example;

R9999 *WIDGETs SHOULD be round in shape.*

This requirement is identified by "R9999", applies to the target WIDGET (see below), and places a conditional requirement upon widgets; i.e., although this requirement must be met to maintain conformance in most cases, there are some situations where there may be valid reasons for it not being met (which are explained in the requirement itself, or in its accompanying text).

Each requirement statement contains exactly one requirement level keyword (e.g., "MUST") and one conformance target keyword (e.g., "MESSAGE"). The conformance target keyword appears in bold text (e.g. "**MESSAGE**"). Other conformance targets appearing in non-bold text are being used strictly for their definition and NOT as a conformance target. Additional text may be included to illuminate a requirement or group of requirements (e.g., rationale and examples); however, prose surrounding requirement statements must not be considered in determining conformance.

Definitions of terms in the Profile are considered authoritative for the purposes of determining conformance.

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None of the requirements in the Profile, regardless of their conformance level, should be interpreted as limiting the ability of an otherwise conforming implementation to apply security countermeasures in response to a real or perceived threat (e.g., a denial of service attack).

2.2 Conformance Targets

Conformance targets identify what artifacts (e.g., SOAP message, WSDL description, UDDI registry data) or parties (e.g., SOAP processor, end user) requirements apply to.

This allows for the definition of conformance in different contexts, to assure unambiguous interpretation of the applicability of requirements, and to allow conformance testing of artifacts (e.g., SOAP messages and WSDL descriptions) and the behavior of various parties to a Web service (e.g., clients and service instances).

Requirements' conformance targets are physical artifacts wherever possible, to simplify testing and avoid ambiguity.

The following conformance targets are used in the Profile:

- **MESSAGE** - protocol elements that transport the ENVELOPE (e.g., SOAP/HTTP messages)
- **ENVELOPE** - the serialization of the soap:Envelope element and its content
- **DESCRIPTION** - descriptions of types, messages, interfaces and their concrete protocol and data format bindings, and the network access points associated with Web services (e.g., WSDL descriptions) (from [Basic Profile 1.0](#))
- **INSTANCE** - software that implements a wsdl:port or a uddi:bindingTemplate (from [Basic](#)

Profile 1.0)

- **CONSUMER** - software that invokes an INSTANCE (from [Basic Profile 1.0](#))
- **SENDER** - software that generates a message according to the protocol(s) associated with it (from [Basic Profile 1.0](#))
- **RECEIVER** - software that consumes a message according to the protocol(s) associated with it (e.g., SOAP processors) (from [Basic Profile 1.0](#))
- **REGDATA** - registry elements that are involved in the registration and discovery of Web services (e.g. UDDI tModels) (from [Basic Profile 1.0](#))

2.3 Conformance Scope

The scope of the Profile delineates the technologies that it addresses; in other words, the Profile only attempts to improve interoperability within its own scope. Generally, the Profile's scope is bounded by the specifications referenced by it.

The Profile's scope is further refined by extensibility points. Referenced specifications often provide extension mechanisms and unspecified or open-ended configuration parameters; when identified in the Profile as an extensibility point, such a mechanism or parameter is outside the scope of the Profile, and its use or non-use is not relevant to conformance.

Note that the Profile may still place requirements on the use of an extensibility point. Also, specific uses of extensibility points may be further restricted by other profiles, to improve interoperability when used in conjunction with the Profile.

Because the use of extensibility points may impair interoperability, their use should be negotiated or documented in some fashion by the parties to a Web service, for example, this could take the form of an out-of-band agreement.

The Profile's scope is defined by the referenced specifications in [Appendix A](#), as refined by the extensibility points in [Appendix B](#).

oSIST ISO/IEC DIS 29361:2007
https://standards.iteh.ai/catalog/standards/sist/7900d2dd-6cce-41de-9cb1-a6aa434ad34d/osist-iso-iec-dis-29361-2007

2.4 Claiming Conformance

Claims of conformance to the Profile can be made using the following mechanisms, as described in [Conformance Claim Attachment Mechanisms](#), when the applicable Profile requirements associated with the listed targets have been met:

- **WSDL 1.1 Claim Attachment Mechanism for Web Services Instances** - MESSAGE DESCRIPTION INSTANCE RECEIVER
- **WSDL 1.1 Claim Attachment Mechanism for Description Constructs** - DESCRIPTION
- **UDDI Claim Attachment Mechanism for Web Services Instances** - MESSAGE DESCRIPTION INSTANCE RECEIVER
- **UDDI Claim Attachment Mechanism for Web Services Registrations** - REGDATA

The conformance claim URI for this Profile is "http://ws-i.org/profiles/basic/1.1" .

3. Messaging

This section of the Profile incorporates the following specifications by reference, and defines extensibility points within them:

- [Simple Object Access Protocol \(SOAP\) 1.1](#)
Extensibility points:
 - E0001 - Header blocks - Header blocks are the fundamental extensibility mechanism in SOAP.
 - E0002 - Processing order - The order of processing of a SOAP envelope's components