
**Information technology —
Telecommunications and information
exchange between systems — Web
Services Description Language (WSDL)
for CSTA Phase III**

*Technologies de l'information — Télécommunications et échange
d'information entre systèmes — Langage de description des services
Web (WSDL) pour CSTA Phase III*



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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 18450 was prepared by Ecma International (as ECMA-348) and was adopted, under a special “fast-track procedure”, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC.

Introduction

This International Standard defines a Web Services Description Language (WSDL) for Phase III of Computer Supported Telecommunications Applications (CSTA).

This International Standard is part of a Suite of Standards and Technical Reports for Phase III of CSTA. All of the Standards and Technical Reports in the Suite are based upon the practical experience of Ecma member companies and each one represents a pragmatic and widely based consensus.

This first Edition of ISO/IEC 18450 (ECMA-348) is fully aligned with ISO/IEC 18051 6th Edition and it imports the CSTA XML schemata from ISO/IEC 18056 5th Edition.

This edition introduces WS-Eventing to establish event channels and implicit associations, and recasts outbound operations into inbound operations in the Computing Function WSDL. This change is fully conformant to WS-I and supports SOAP/HTTP as a complete binding of the WSDL.

WSDL Tools Acknowledgement

The WSDL definition files, for the computing function, switching function and common messages, reflecting the WSDL specifications in this International Standard have been verified using the XML SPY tool.

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Information technology — Telecommunications and information exchange between systems — Web Services Description Language (WSDL) for CSTA Phase III

1 Scope

Web Services Description Language (WSDL) is an XML schema for describing Web services and how they can be accessed by Web based applications. WSDL facilitates the creation and deployment of web based applications. For example, by using WSDL with many industry Web services development environments, a web services developer can access features provided by an implementation without knowing details of the network or underlying transport protocols.

This International Standard specifies two WSDL documents: Computing Function WSDL and Switching Function WSDL, for ISO/IEC 18051, Services for Computer Supported Telecommunications Applications (CSTA) Phase III. All CSTA features (e.g., services and events) specified in ISO/IEC 18051 are specified in this International Standard. This Standard specifies pairs of port types, one from the Computing Function WSDL and one from the Switching Function WSDL, for all the profiles specified in ISO/IEC 18051.

A full WSDL document contains both abstract definitions (WSDL messages and port type elements) and concrete protocol specific definitions (WSDL bindings, ports, and service elements). This CSTA WSDL Standard specifies only the abstract definitions of a WSDL document. The concrete and protocol specific definitions are implementation specific and are outside the scope of this International Standard. Annex B illustrates an example SOAP over HTTP binding.

WSDL is defined in XML and XML Schemata. This International Standard builds upon the XML data types and imports all message formats specified in ISO/IEC 18056.

Annex A specifies mechanisms to establish event channels based on WS-Eventing. The event channels allow the Switching Function and Computing Function to be both a Service Requester and a Service Provider.

2 Conformance

In addition to the conformance requirements specified in Clause 2 of ISO/IEC 18051 and Clause 2 of ISO/IEC 18056, a conformant implementation supports at least one pair of the port types defined in this International Standard. Each port type pair in this International Standard corresponds to a profile specified in 2.3.1 of ISO/IEC 18051.

To support one pair of these port types, an implementation must support all the WSDL operations specified in the port type pair. A conformant implementation supports an operation by adhering to the corresponding service definition in ISO/IEC 18051 and by using the message formats and data types as specified in ISO/IEC 18056.

A conformant implementation also supports the event channel establishment specified in Annex A.

3 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

3.1 Ecma references

ISO/IEC 18051:2012, *Information technology — Telecommunications and information exchange between systems — Services for Computer Supported Telecommunications Applications (CSTA) Phase III (ECMA-269)*

ISO/IEC 18056:2012, *Information technology — Telecommunications and information exchange between systems — XML Schema Definitions for Computer Supported Telecommunications Applications (CSTA) Phase III (ECMA-323)*

ISO/IEC 25437:2012, *Information technology — Telecommunications and information exchange between systems — WS-Session — Web services for application session services (ECMA-366)*

ISO/IEC TR 18053:2000, *Information technology — Telecommunications and information exchange between systems — Glossary of definitions and terminology for Computer Supported Telecommunications Applications (CSTA) Phase III (ECMA TR/72)*