INTERNATIONAL STANDARD

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Information technology — Telecommunications and information exchange between systems — WS-Session — Web services for application session services

Technologies de l'information — Télécommunications et échange d'information entre systèmes — Session WS — Services web pour services de session d'application

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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 25437 was prepared by Ecma International (as ECMA-366) and was adopted, under a special “fast-track procedure”, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*, in parallel with its approval by national bodies of ISO and IEC.

This third edition cancels and replaces the second edition (ISO/IEC 25437:2009), which has been technically revised.

Introduction

ISO/IEC 22534, Application Session Services, specifies XML protocols that can be used to create and manage application sessions that are independent of the transport layer protocols. This International Standard (WS-Session) specifies Web services for ISO/IEC 22534.

For Service Requester to receive the event notification from the Service Provider and from web services (e.g. ECMA-348) that use this International Standard for session management, this International Standard introduces WS-Eventing as the mandatory mechanism and WS-BaseNotification as an Option to manage the event channel. This International Standard uses the approach in A.2 of WS-Eventing to specify the ApplicationSessionTerminated as an operation in the Notification WSDL.

Since WS-Eventing has advanced to a W3C Proposed Recommendation at W3C, the 3rd edition of this International Standard incorporates and complies with the latest edition of WS-Eventing.

Heeding the guidance in the WS-I Profiles that WS-Eventing adopted, this Standard only uses a subset of WSDL Services, in particular, this Standard does not use the WSDL 1.1 Notification and Solicit-response operations.

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1 Scope

This International Standard specifies Web Services (in WSDL, in Clause 5) and SOAP bindings (in Clause 6) for the Application Session Services defined in ISO/IEC 22534. The Application Session Services allow Applications to create and maintain a relationship with Servers termed Application Session. The Web services specified herein, allow Service Requesters (Applications in ISO/IEC 22534) and Service Providers (Servers in ISO/IEC 22534) to create and maintain such Application Sessions.

This International Standard builds upon and imports the XML schema definitions from ISO/IEC 22534. The method of making the WSDL description of the specified services available to Service Provider and Requester is out of the scope of this International Standard.

The Notification WSDL specifies the ApplicationSessionTerminated operation. The operation specifies one input message for the event notification that Service Requesters receive from the Service Provider. Service Requesters may also receive the event notifications from web services, e.g. ECMA-348, that use this International Standard for session management.

2 Conformance

The Service Requester and Service Provider conform to the Application and Server conformance specified in ISO/IEC 22534, using the WSDL definitions, SOAP bindings, and event subscription and notification specified in Clause 5, 6 and 7 respectively.

The Service Provider implements and publishes the operations in the Provider WSDL in 5.1 and the Notification WSDL in 5.2. The Service Provider implements and publishes the required operations from Annex A and it may additionally implement and publish operations from Annex B.

The Service Requester implements the operation in the Notification WSDL in 5.2.

The Service Provider supports synchronous responses to Event Subscriptions and may also implement the asynchronous response Option specified in Annex C.

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.

ISO/IEC 22534:2005 (ECMA-354), *Information technology — Telecommunications and information exchange between systems — Application session services*

SOAP 1.1 Simple Object Access Protocol 1.1, W3C Note 08 May 2000

WSDL 1.1 Web Service Description Language 1.1, W3C Note 15 March 2001

XML Schema 1.0: XML Schema Language Part 1: Structure, W3C Recommendation 28 October 2004

XML Schema Language Part 2: Data Types, W3C Recommendation 28 October 2004

WS-Addressing 1.0 Web Services Addressing 1.0 – Core W3C Recommendation (ISO/IEC 40240:2011)

Web Services Addressing 1.0 - SOAP Binding W3C Recommendation (ISO/IEC 40250:2011)

Web Services Addressing 1.0 – Metadata, W3C (ISO/IEC 40260:2011)

Web Services Eventing (WS-Eventing), W3C Recommendation 13 December 2011, http://www.w3.org/TR/ws-eventing/

WS-BaseNotification 1.3 Web Services Base Notification 1.3 (WS-BaseNotification) OASIS Standard, 1 October 2006