INTERNATIONAL STANDARD

ISO/IEC 29362

First edition
2008-06-15

Information technology — Web Services Interoperability — WS-I Attachments Profile Version 1.0

Technologies de l'information — Interopérabilité des services du Web — Profil des fichiers joints WS-I, version 1.0

Reference number
ISO/IEC 29362:2008(E)

© ISO/IEC 2008

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2008

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

 © ISO/IEC 2008 – All rights reserved

Contents

Foreword v

1 Scope and introduction 1

1.1 Scope 1

1.2 Relationship to other Profiles 1

1.3 Notational Conventions 1

1.4 Profile Identification and Versioning 3

2 Profile Conformance 3

2.1 Conformance Requirements 3

2.2 Conformance Targets 4

2.3 Conformance Scope 5

2.4 Claiming Conformance 5

3 Attachments Packaging 6

3.1 Root Part 6

3.2 Encoding of Root Part 7

3.3 Media Type of Message 7

3.4 Messages with No Attachments 7

3.5 Dereferencing Attachments 9

3.6 Carrying Additional SOAP Envelopes 9

3.7 Fault Messages with Attachments 9

3.8 Value-space of Content-Id Header 9

3.9 Ordering of MIME Parts 10

3.10 Position of Root Part 11

3.11 Content-Transfer-Encoding 11

© ISO/IEC 2008 – All rights reserved

3.12 MIME Boundary String 12
4 Attachments Description 12
4.1 Use of MIME Binding Extension 12
4.2 Unbound portType Element Contents 13
4.3 Referencing Message Parts 13
4.4 Referencing Attachments from the SOAP Envelope 14
4.5 Specifying Root Part 18
4.6 Specifying SOAP Headers in Root Part 19
4.7 MIME Binding Schema Fixes 20
4.8 Specifying Alternate Media Types 20
4.9 WSDL Parts 21
4.10 Ordering of Parts 21
4.11 Sending Fault Messages 22
4.12 Describing Faults 22
4.13 Sending Additional Parts Not Described in WSDL 22
4.14 Conformance of SOAP Messages 22
4.15 Example Attachment Description Using mime:conent 22
4.16 Example Attachment Description Using swaRef 25
Appendix A: Referenced Specifications 27
Appendix B: Extensibility Points 28
Appendix C: Normative References 29
Appendix D: Defined Terms 30
Appendix E: Acknowledgements 31

© ISO/IEC 2008 – All rights reserved

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 29362 was prepared by the Web Services Interoperability Organization (WS-I) and was adopted, under the PAS procedure, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC.

© ISO/IEC 2008 – All rights reserved

Information technology — Web Services Interoperability — WS-I Attachments Profile Version 1.0

1 Scope and introduction

1.1 Scope

This International Standard defines the WS-I Attachments Profile 1.0 (hereafter, "Profile"), consisting of a set of non-proprietary Web services specifications, along with clarifications to and amplifications of those specifications that are intended to promote interoperability. This profile complements the WS-I Basic Profile 1.1 to add support for conveying interoperable SOAP Messages with Attachments-based attachments with SOAP messages.

SOAP Messages with Attachments (SwA) defines a MIME multipart/related structure for packaging attachments with SOAP messages. This profile complements the WS-I Basic Profile 1.1 to add support for conveying interoperable SwA-based attachments with SOAP messages.

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.

© ISO/IEC 2008 – All rights reserved