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1 **Web Services ReliableMessaging Policy**  
2 **Assertion (WS-RM Policy)**

3 **Committee Draft 04, August 11, 2006**

2 ~~**Web Services ReliableMessaging Policy**~~  
3 ~~**Assertion**~~  
4 ~~**(WS-RM Policy)**~~

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19 **Abstract:**

20 This specification describes a domain-specific policy assertion for WS-ReliableMessaging [WS-  
21 RM] that that can be specified within a policy alternative as defined in WS-Policy Framework [WS-  
22 Policy].

23 By using the XML [XML], SOAP [SOAP 1.1], [SOAP 1.2] and WSDL [WSDL 1.1] extensibility  
24 models, the WS\* specifications are designed to be composed with each other to provide a rich  
25 Web services environment. This by itself does not provide a negotiation solution for Web services.  
26 This is a building block that is used in conjunction with other Web service and application-specific  
27 protocols to accommodate a wide variety of policy exchange models.

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36 \[may be essential to implementing this specification, and any offers of patent licensing terms,\]\(#\)  
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# 65 1 Introduction

66 This specification defines a domain-specific policy assertion for reliable messaging for use with WS-Policy  
67 [and WS-ReliableMessaging\[WS-Policy\] and WS-ReliableMessaging \[WS-RM\]](#).

## 68 1.1 Goals and Requirements

### 69 1.1.1 Requirements

## 70 1.2 Notational Conventions

71 The keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD  
72 NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described  
73 in RFC 2119 [[KEYWORDS](#)].

74 This specification uses the following syntax to define normative outlines for messages:

- 75 • The syntax appears as an XML instance, but values in italics indicate data types instead of values.
- 76 • Characters are appended to elements and attributes to indicate cardinality:
  - 77 ○ "?" (0 or 1)
  - 78 ○ "\*" (0 or more)
  - 79 ○ "+" (1 or more)
- 80 • The character "|" is used to indicate a choice between alternatives.
- 81 • The characters "[" and "]" are used to indicate that contained items are to be treated as a group  
82 with respect to cardinality or choice.
- 83 • An ellipsis (i.e. "...") indicates a point of extensibility that allows other child, or attribute, content.  
84 Additional children and/or attributes MAY be added at the indicated extension points but MUST  
85 NOT contradict the semantics of the parent and/or owner, respectively. If an extension is not  
86 recognized it SHOULD be ignored.
- 87 • XML namespace prefixes (See Section [1.3Namespace](#)) are used to indicate the namespace of  
88 the element being defined.

89 [Elements and Attributes defined by this specification are referred to in the text of this document using](#)  
90 [XPath 1.0 \[XPATH 1.0\] expressions. Extensibility points are referred to using an extended version of this](#)  
91 [syntax:](#)

- 92 • [An element extensibility point is referred to using {any} in place of the element name. This](#)  
93 [indicates that any element name can be used, from any namespace other than the wsrmp:](#)  
94 [namespace.](#)
- 95 • [An attribute extensibility point is referred to using @{any} in place of the attribute name. This](#)  
96 [indicates that any attribute name can be used, from any namespace other than the wsrmp:](#)  
97 [namespace.](#)

98 **1.3 Namespace**

99 The XML namespace [XML-ns] URI that MUST be used by implementations of this specification is:

100 <http://docs.oasis-open.org/ws-rx/wsrmp/2006082>

101 Dereferencing the above URI will produce the Resource Directory Description Language [RDDL 2.0]  
102 document that describes this namespace.

103 Table 1 lists the XML namespaces that are used in this specification. The choice of any namespace prefix  
104 is arbitrary and not semantically significant.

105 *The following namespaces are used in this document:*

106 Table 1

Prefix	Namespace	Specification
<a href="#">wsdl</a>	<a href="http://schemas.xmlsoap.org/wsdl/">http://schemas.xmlsoap.org/wsdl/</a>	[WSDL 1.1]
<a href="#">wsp</a>	<a href="http://schemas.xmlsoap.org/ws/2004/09/policy">http://schemas.xmlsoap.org/ws/2004/09/policy</a>	[WS-Policy]
<a href="#">wsrmp</a>	<a href="http://docs.oasis-open.org/ws-rx/wsrmp/200608">http://docs.oasis-open.org/ws-rx/wsrmp/200608</a>	This specification.
<a href="#">wsu</a>	<a href="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd</a>	WS-Security-Utility Schema
Prefix	Namespace	Specification
<a href="#">wsp</a>	<a href="http://schemas.xmlsoap.org/ws/2004/09/policy">http://schemas.xmlsoap.org/ws/2004/09/policy</a>	[WS-Policy]
<a href="#">wsrmp</a>	<a href="http://docs.oasis-open.org/ws-rx/wsrmp/200602">http://docs.oasis-open.org/ws-rx/wsrmp/200602</a>	This specification.

107 **1.4 Compliance**

108 An implementation is not compliant with this specification if it fails to satisfy one or more of the MUST or  
109 REQUIRED level requirements defined herein. A SOAP Node MUST NOT use the XML namespace  
110 identifier for this specification (listed in Section [1.3 Namespace](#)) within SOAP Envelopes unless it is  
111 compliant with this specification.

112 Normative text within this specification takes precedence over normative outlines, which in turn take  
113 precedence over the XML Schema [XML-Schema Part1, XML-Schema Part2] descriptions.

## 2 RM Policy Assertions

WS-Policy Framework [WS-Policy] and WS-Policy Attachment [WS-PolicyAttachment] collectively define a framework, model and grammar for expressing the requirements, and general characteristics of entities in an XML Web services-based system. To enable an RM Destination and an RM Source to describe their requirements for a given Sequence, this specification defines a single RM policy assertion that leverages the WS-Policy framework.

### 2.1 Assertion Model

The RM policy assertion indicates that the RM Source and RM Destination MUST use WS-ReliableMessaging [WS-RM] to ensure reliable delivery of messages. Specifically, the WS-ReliableMessaging protocol determines invariants maintained by the reliable messaging endpoints and the directives used to track and manage the delivery of a Sequence of messages.

### 2.2 Normative Outline

The normative outline for the RM assertion is:

```
<wsrmp:RMAssertion [wsp:Optional="true"]? ... >
...
</wsrmp:RMAssertion>
```

The following describes additional, normative constraints on the outline listed above:

/wsrmp:RMAssertion

A policy assertion that specifies that WS-ReliableMessaging protocol MUST be used when sending messages[WS-RM] protocol MUST be used for a Sequence.

/wsrmp:RMAssertion/@wsp:Optional="true"

Per WS-Policy [WS-Policy], this is compact notation for two policy alternatives, one with and one without the assertion. The intuition is that the behavior indicated by the assertion is optional, or in this case, that WS-ReliableMessaging MAY be used.

/wsrmp:RMAssertion/{any}

This is an extensibility mechanism to allow different (extensible) types of information, based on a schema, to be passed.

/wsrmp:RMAssertion/@{any}

This is an extensibility mechanism to allow different (extensible) types of information, based on a schema, to be passed.

### 2.3 Assertion Attachment

The RM policy assertion is allowed to have the following Policy Subjects [WS-PolicyAttachment]:

- Endpoint Policy Subject

147 ● Message Policy Subject

148 WS-PolicyAttachment defines a set of WSDL/1.1 policy attachment points for each of the above Policy  
149 Subjects. Since an RM policy assertion specifies a concrete behavior, it MUST NOT be attached to the  
150 abstract WSDL policy attachment points.

151 The following is the list of WSDL/1.1 elements whose scope contains the Policy Subjects allowed for an  
152 RM policy assertion but which MUST NOT have RM policy assertions attached:

- 153 • wSDL:message
- 154 • wSDL:portType/wSDL:operation/wSDL:input
- 155 • wSDL:portType/wSDL:operation/wSDL:output
- 156 • wSDL:portType/wSDL:operation/wSDL:fault
- 157 • wSDL:portType

158 The following is the list of WSDL/1.1 elements whose scope contains the Policy Subjects allowed for an  
159 RM policy assertion and which MAY have RM policy assertions attached:

- 160 • wSDL:port
- 161 • wSDL:binding
- 162 • wSDL:binding/wSDL:operation/wSDL:input
- 163 • wSDL:binding/wSDL:operation/wSDL:output
- 164 • wSDL:binding/wSDL:operation/wSDL:fault

165 If an RM policy assertion is attached to any of:

- 166 • wSDL:binding/wSDL:operation/wSDL:input
- 167 • wSDL:binding/wSDL:operation/wSDL:output
- 168 • wSDL:binding/wSDL:operation/wSDL:fault

169 then an RM policy assertion, specifying wsp:Optional=true MUST be attached to the corresponding  
170 wSDL:binding or wSDL:port, indicating that the endpoint supports WS-RM. Any messages, regardless of  
171 whether they have an attached Message Policy Subject RM policy assertion, MAY be sent to that endpoint  
172 using WS-RM. Additionally, the receiving endpoint MUST NOT reject any message belonging to a  
173 Sequence, simply because there was no Message Policy Subject RM policy assertion attached to that  
174 message. There might be certain RM implementations that are incapable of applying RM QoS semantics  
175 on a per-message basis. In order to ensure the broadest interoperability, when an endpoint decorates its  
176 WSDL with RM policy assertions using Message Policy Subject, it MUST also be prepared to accept that  
177 all messages sent to that endpoint might be sent within the context of an RM Sequence, regardless of  
178 whether the corresponding wSDL:input, wSDL:output or wSDL:fault had an attached RM policy assertion.

179 Rather than turn away messages that were unnecessarily sent with RM semantics, the receiving endpoint  
180 described by the WSDL MUST accept these messages.

181 By attaching an RM policy assertion that specifies wsp:Optional="true" to the corresponding endpoint that  
182 has attached RM policy assertions at the Message Policy Subject level, the endpoint is describing the  
183 above constraint in policy.

184 In the case where an optional RM Assertion applies to an output message, there is no requirement on the  
185 client to support an RM Destination implementation

186 Because the RM policy assertion indicates endpoint behavior over an RM Sequence, the assertion has  
 187 Endpoint Policy Subject [WS-PolicyAttachment]:

188 WS-PolicyAttachment defines three WSDL [WSDL-1.1] policy attachment points with Endpoint Policy  
 189 Subject:

- 190 • `wsdl:portType`—A policy expression containing the RM policy assertion MUST NOT be attached to  
 191 a `wsdl:portType`; the RM policy assertion specifies a concrete behavior whereas the `wsdl:portType` is an  
 192 abstract construct.
- 193 • `wsdl:binding`—A policy expression containing the RM policy assertion SHOULD be attached to a  
 194 `wsdl:binding`.
- 195 • `wsdl:port`—A policy expression containing the RM policy assertion MAY be attached to a `wsdl:port`.

196 If the RM policy assertion appears in a policy expression attached to both a `wsdl:port` and its  
 197 corresponding `wsdl:binding`, the parameters in the former MUST be used and the latter ignored.

198 An RM policy assertion allows for extensibility as defined in Section 2.2. Because the WSRM specification  
 199 allows an RM Sequence to span multiple WSDL ports and/or endpoints, implementations or specifications  
 200 that make use of this capability should be aware that doing so may create situations in which multiple  
 201 policies containing extended RM policy assertions may apply to the same RM Sequence. The means and  
 202 mechanisms for collating and resolving conflicts between RM policy assertions attached to multiple  
 203 `wsdl:bindings` and/or `wsdl:ports` that participate in a single RM Sequence is not defined by this  
 204 specification. Users/creators of extended RM policy assertions are encouraged to consider and address  
 205 any possible conflicts in the content and semantics of the RM policy assertion extensions.

## 206 2.4 Assertion Example

207 Table 2 lists an example use of the RM policy assertion.

208 Table 2: Example policy with RM policy assertion

```

209 (01) <wsdl:definitions
210 (02)   targetNamespace="example.com"
211 (03)   xmlns:tns="example.com"
212 (04)   xmlns:wSDL="http://schemas.xmlsoap.org/wSDL/"
213 (05)   xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
214 (06)   xmlns:wsrmp="http://docs.oasis-open.org/ws-rx/wsrmp/2006032"
215 (07)   xmlns:wssu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
216 wss-wssecurity-utility-1.0.xsd">
217 (08)
218 (09)   <wsp:UsingPolicy wsdl:required="true" />
219 (10)
220 (11)   <wsp:Policy wsu:Id="MyPolicy" >
221 (12)     <wsrmp:RMAssertion/>
222
223 (13)     <!-- omitted assertions -->
224 (14)   </wsp:Policy>
225 (15)
226 (16)   <!-- omitted elements -->
227 (17)
228 (18)   <wsdl:binding name="MyBinding" type="tns:MyPortType" >
229 (19)     <wsp:PolicyReference URI="#MyPolicy" />
230 (20)     <!-- omitted elements -->
231 (21)   </wsdl:binding>
232 (22)
233 (23) </wsdl:definitions>

```

233 Line (09) in Table 2 indicates that WS-Policy [~~WS-Policy~~] is in use as a required extension.  
234 Lines (11-14) are a policy expression that includes a RM policy assertion (Line 12) to indicate that WS-  
235 ReliableMessaging [~~WS-RM~~] must be used.  
236 Lines (18-21) are a WSDL binding. Line (19)[~~WSDL-1.1 binding~~. Line (21) indicates that the policy in Lines  
237 (11-14) applies to this binding, specifically indicating that WS-ReliableMessaging must be used over all  
238 the messages in the binding.

## 239 **2.5 Sequence Security Policy**

240 WS-SecurityPolicy [SecurityPolicy] provides a framework and grammar for expressing the security  
241 requirements and characteristics of entities in a XML web services based system. The following  
242 assertions MAY be used in conjunction with WS-SecurityPolicy to express additional security  
243 requirements particular to RM Sequences.

### 244 **2.5.1 Sequence STR Assertion**

245 This assertion defines the requirement that an RM Sequence MUST be bound to an explicit token that is  
246 referenced from a `wsse:SecurityTokenReference` in the `CreateSequence` message.

247 This assertion MUST apply to [Endpoint Policy Subject]. This assertion MUST NOT be used for an  
248 endpoint that does not also use the RM assertion.

249 The normative outline for the Sequence STR Assertion is:

```
250 <wsrmp:SequenceSTR [wsp:Optional="true"]? ... />
```

251 `/wsrmp:SequenceSTR`

252 A policy assertion that specifies security requirements which MUST be used with an RM Sequence that  
253 are particular to WS-RM and beyond what can be expressed in WS-SecurityPolicy.

254 `/wsrm:SequenceSTR /@wsp:Optional="true"`

255 Per WS-Policy, this is compact notation for two policy alternatives, one with and one without the assertion.

256 The intuition is that the behavior indicated by the assertion is optional, or in this case, that the RM  
257 Sequence binding to a specific token MAY be used.

### 258 **2.5.2 Sequence Transport Security Assertion**

259 This assertion defines the requirement that an RM Sequence MUST be bound to the session(s) of the  
260 underlying transport-level security protocol (e.g. SSL/TLS) used to carry the `CreateSequence` and  
261 `CreateSequenceResponse` messages.

262 This assertion MUST apply to [Endpoint Policy Subject]. This assertion is effectively meaningless unless it  
263 occurs in conjunction with the `RMAssertion` and a `sp:TransportBinding` assertion that requires the  
264 use of some transport-level security mechanism (e.g. `sp:HttpsToken`).

265 The normative outline for the Sequence Transport Security Assertion is:

```
266 <wsrmp:SequenceTransportSecurity [wsp:Optional="true"]? ... />
```

267 `/wsrmp:SequenceTransportSecurity`

268 A policy assertion that specifies that any Sequences targeted to the indicated endpoint MUST be bound to  
269 the underlying session(s) of the transport-level security used to carry messages related to the Sequence.

270 [/wsrmp:SequenceTransportSecurity /@wsp:Optional="true"](#)  
271 [Per WS-Policy, this is compact notation for two policy alternatives, one with and one without the assertion.](#)  
272 [The meaning is that the behavior indicated by the assertion is optional, or in this case, that the binding of](#)  
273 [RM Sequences to transport-level security sessions MAY be used.](#)

## 274 **3 Security Considerations**

275 It is strongly RECOMMENDED that policies and assertions be signed to prevent tampering.

276 It is RECOMMENDED that policies SHOULD NOT be accepted unless they are signed and have an  
277 associated security token to specify the signer has proper claims for the given policy. That is, a relying  
278 party shouldn't rely on a policy unless the policy is signed and presented with sufficient claims to pass the  
279 relying parties acceptance criteria.

280 It should be noted that the mechanisms described in this document could be secured as part of a SOAP  
281 message using WS-Security [[WS-SecurityS](#)] or embedded within other objects using object-specific  
282 security mechanisms.

## 283 **4 References**

### 284 **4.1 Normative**

#### 285 **[KEYWORDS]**

286 S. Bradner, "[Key words for use in RFCs to Indicate Requirement Levels](#)," RFC 2119, Harvard University,  
287 March 1997.

#### 288 **[SOAP 1.1]**

289 W3C Note, "[SOAP: Simple Object Access Protocol 1.1](#)" 08 May 2000.-

#### 290 **[SOAP 1.2]**

291 W3C Recommendation, "[SOAP Version 1.2 Part 1: Messaging Framework](#)" June 2003.-

#### 292 **[URI]**

293 T. Berners-Lee, R. Fielding, L. Masinter, "[Uniform Resource Identifiers \(URI\): Generic Syntax](#)," RFC 3986,  
294 MIT/LCS, U.C. Irvine, Xerox Corporation, January 2005.

#### 295 **[WS-RM]**

296 OASIS WS-RX Technical Committee Draft, "[Web Services Reliable Messaging \(WS-ReliableMessaging\)](#),"  
297 September 2005.

#### 298 **[WS-Policy]**

299 ~~W3C Member Submission, "[Web Services Policy Framework \(WS-Policy\)](#)," April 2006~~~~D. Box, et al, "[Web](#)~~  
300 ~~Services Policy Framework (WS-Policy)," September 2004.~~

#### 301 **[WS-PolicyAttachment]**

302 ~~W3C Member Submission, "[Web Services Policy Attachment \(WS-PolicyAttachment\)](#)," April 2006~~~~D. Box,~~  
303 ~~et al, "[Web Services Policy Attachment \(WS-PolicyAttachment\)](#)," September 2004.~~

#### 304 **[WSDL 1.1]**

305 W3C Note, "[Web Services Description Language \(WSDL 1.1\)](#)," 15 March 2001.

#### 306 **[XML]**

307 W3C Recommendation, "[Extensible Markup Language \(XML\) 1.0 \(Second Edition\)](#)"~~"Extensible Markup~~  
308 ~~Language (XML) 1.0 (Second Edition)~~", October 2000.

#### 309 **[XML-ns]**

310 W3C Recommendation, "[Namespaces in XML](#)," 14 January 1999.

#### 311 **[XML-Schema -Part1]**

312 W3C Recommendation, "[XML Schema Part 1: Structures](#)," 2 May 2001.

#### 313 **[XML-Schema -Part2]**

314 W3C Recommendation, "[XML Schema Part 2: Datatypes](#)," 2 May 2001.

#### 315 **[XPath 1.0]**

316 [W3C Recommendation, "XML Path Language \(XPath\) Version 1.0," 16 November 1999.](#)

317 **4.2 Non Normative**

318 **[RDDL 2.0]**

319 Johnathan Borden, Tim Bray, eds. "[Resource Directory Description Language \(RDDL\) 2.0](#)," January 2004

320 **[SecurityPolicyWSS]**

321 [G. Della-Libra, et. al. "Web Services Security Policy Language \(WS-SecurityPolicy\)", July 2005](#)

322 **[WS-Security]**

323 [Anthony Nadalin, Chris Kaler, Phillip Hallam-Baker, Ronald Monzillo, eds. "OASIS Web Services Security: SOAP Message Security 1.0 \(WS-Security 2004\)", OASIS Standard 200401, March 2004.](#)

325 [Anthony Nadalin, Chris Kaler, Phillip Hallam-Baker, Ronald Monzillo, eds. "OASIS Web Services Security: SOAP Message Security 1.1 \(WS-Security 2004\)", OASIS Standard 200602, February 2006.](#)

327 ~~OASIS Web Services Security: SOAP Message Security 1.0 (WS-Security 2004)", Chris Kaler, Phillip-~~  
328 ~~Hallam-Baker, Ronald Monzillo, eds, OASIS Standard 200401, March 2004.~~

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## 375 Appendix B. XML Schema

376 A normative copy of the XML Schema [XML-Schema Part1, XML-Schema Part2] description for this  
377 specification may be retrieved from the following address:

378 <http://docs.oasis-open.org/ws-rx/wsrmp/200608/wsrmp-1.1-schema-2006082/wsrmp-1.1-schema-200602.xsd>  
379

380 The following copy is provided for reference.

```
381 <?xml version="1.0" encoding="UTF-8"?>
382 <!--
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416 INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION
417 HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF
418 MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
419 -->
420 <xs:schema xmlns:tns="http://docs.oasis-open.org/ws-rx/wsrmp/200608"
421 xmlns:xs="http://www.w3.org/2001/XMLSchema"
422 targetNamespace="http://docs.oasis-open.org/ws-rx/wsrmp/200608"
423 elementFormDefault="qualified" attributeFormDefault="unqualified">
424 <xs:element name="RMAssertion">
425 <xs:complexType>
426 <xs:sequence>
427 <xs:any namespace="##other" processContents="lax" minOccurs="0"
428 maxOccurs
429 </xs:sequence>
430 <xs:anyAttribute namespace="##any" processContents="lax"/>
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</xs:complexType>
</xs:element>
<xs:element name="SequenceSTR">
  <xs:complexType>
    <xs:sequence/>
    <xs:anyAttribute namespace="##any" processContents="lax"/>
  </xs:complexType>
</xs:element>
<xs:element name="SequenceTransportSecurity">
  <xs:complexType>
    <xs:sequence/>
    <xs:anyAttribute namespace="##any" processContents="lax"/>
  </xs:complexType>
</xs:element>
</xs:schema>
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```
482 →
483 <del>xs:schema xmlns:tns="http://docs.oasis-open.org/ws-rx/wsrmp/200602"
484 xmlns:xs="http://www.w3.org/2001/XMLSchema"
485 targetNamespace="http://docs.oasis-open.org/ws-rx/wsrmp/200602"
486 elementFormDefault="qualified" attributeFormDefault="unqualified">
487   <del>xs:element name="RMAssertion">
488     <del>xs:complexType>
489       <del>xs:sequence>
490         <del>xs:any namespace="##other" processContents="lax" minOccurs="0"
491 maxOccurs="unbounded"/>
492       <del>/xs:sequence>
493       <del>xs:anyAttribute namespace="##any" processContents="lax"/>
494     <del>/xs:complexType>
495   <del>/xs:element>
496 <del>/xs:schema>
```

## Appendix C. Revision History

Revision	Date	By Whom	What
<a href="#">wd-01.doc</a>	<a href="#">2005-07-06</a>	<a href="#">Ümit Yalçinalp</a>	<a href="#">Initial version created based on submission by the authors.</a>
<a href="#">1.0-wd-01.swx</a>	<a href="#">2005-09-01</a>	<a href="#">Ümit Yalçinalp</a>	<a href="#">Reformatted using Open Office</a>
<a href="#">1.1-wd-01.swx</a>	<a href="#">2005-09-18</a>	<a href="#">Ümit Yalçinalp</a>	<a href="#">Applied resolution i001</a> <a href="#">Applied resolution i015/16 (doc identifier)</a> <a href="#">Partial application of i017, final yyyy/mm required, changed doc URI to TBD pending yyyy/mm</a> <a href="#">Deleted original copyright section</a>
<a href="#">1.1-wd-01.swx</a>	<a href="#">2005-10-02</a>	<a href="#">Anish Karmarkar</a>	<a href="#">Applied resolution of i013 + minor editorial changes + fixed resolution of i017</a>
<a href="#">1.1-wd-01.swx</a>	<a href="#">2005-10-04</a>	<a href="#">Ümit Yalçinalp</a>	<a href="#">Applied actual value for yyyy/mm.</a> <a href="#">Added resolution of i009</a>
<a href="#">1.1-wd-01.swx</a>	<a href="#">2005-10-06</a>	<a href="#">Ümit Yalçinalp</a>	<a href="#">Editorial fixes suggested by Anish</a> <a href="#">Updated wd draft date to October 6th</a>
<a href="#">1.1-wd-01.swx</a>	<a href="#">2005-10-19</a>	<a href="#">Ümit Yalçinalp</a>	<a href="#">Editorial change to remove .swx suffix from doc id.</a>
<a href="#">wd-02</a>	<a href="#">2005-11-03</a>	<a href="#">Gilbert Pilz</a>	<a href="#">Start wd-02 by changing title page from cd-01.</a>
<a href="#">wd-02</a>	<a href="#">2005-11-30</a>	<a href="#">Gilbert Pilz</a>	<a href="#">i072 – editorial nits</a>
<a href="#">wd-02</a>	<a href="#">2005-11-30</a>	<a href="#">Gilbert Pilz</a>	<a href="#">i074 - Use of [tcShortName] in artifact locations namespaces, etc</a>
<a href="#">wd-02</a>	<a href="#">2005-12-01</a>	<a href="#">Gilbert Pilz</a>	<a href="#">Updated fix to i074 to remove trailing '/' from wsrmp namespace.</a>
<a href="#">wd-02</a>	<a href="#">2005-12-01</a>	<a href="#">Anish Karmarkar</a>	<a href="#">Applied resolution for i022</a>
<a href="#">wd-02</a>	<a href="#">2005-12-01</a>	<a href="#">Anish Karmarkar</a>	<a href="#">Applied resolution for i024</a>
<a href="#">wd-02</a>	<a href="#">2005-12-01</a>	<a href="#">Anish Karmarkar</a>	<a href="#">Applied resolution for i054</a>
<a href="#">wd-02</a>	<a href="#">2005-12-01</a>	<a href="#">Anish Karmarkar</a>	<a href="#">Applied resolution of i073</a>
<a href="#">wd-2</a>	<a href="#">2005-12-05</a>	<a href="#">Anish Karmarkar</a>	<a href="#">Applied resolution of i055</a>
<a href="#">wd-2</a>	<a href="#">2005-12-05</a>	<a href="#">Ümit Yalçinalp</a>	<a href="#">Changed fixed date in footer to current date</a>
<a href="#">wd-3</a>	<a href="#">2005-12-21</a>	<a href="#">Doug Davis</a>	<a href="#">Added i050</a>
<a href="#">wd-3</a>	<a href="#">2005-12-23</a>	<a href="#">Ümit Yalçinalp</a>	<a href="#">I057 resolution</a>
<a href="#">wd-3</a>	<a href="#">2005-12-23</a>	<a href="#">Ümit Yalçinalp</a>	<a href="#">Changed the ref to WS-RM to the WS-RX committee.</a>

<b>Revision</b>	<b>Date</b>	<b>By Whom</b>	<b>What</b>
			draft instead of original version Fixed Dug's email address
<a href="#">wd-3</a>	<a href="#">2005-12-23</a>	<a href="#">Ümit Yalçınalp</a>	<a href="#">I060 resolution</a>
<a href="#">wd-03</a>	<a href="#">2005-12-27</a>	<a href="#">Gilbert Pilz</a>	<a href="#">Remove schema example and put it in its own artifact (wsrmp-1.1-schema-200510.xsd). Convert source file to OpenDocument format. Make line numbers all the same style.</a>
<a href="#">wd-03</a>	<a href="#">2005-12-28</a>	<a href="#">Anish Karmarkar</a>	<a href="#">Included a section link to c:\temp\wsrmp-1.1-schema-200510.xsd</a>
<a href="#">wd-03</a>	<a href="#">2006-01-04</a>	<a href="#">Gilbert Pilz</a>	<a href="#">Fixed formatting of included section.</a>
<a href="#">wd-03</a>	<a href="#">2006-01-05</a>	<a href="#">Gilbert Pilz</a>	<a href="#">Fix closing tag of normative outline for RMAssertion.</a>
<a href="#">wd-04</a>	<a href="#">2006-11-11</a>	<a href="#">Doug Davis</a>	<a href="#">Minor tweaks/typos</a>
<a href="#">wd-05</a>	<a href="#">2006-01-23</a>	<a href="#">Gilbert Pilz</a>	<a href="#">Start wd-05 by accepting all changes from wd-04</a>
<a href="#">wd-06</a>	<a href="#">2006-01-23</a>	<a href="#">Doug Davis</a>	<a href="#">Minor typos found by Marc</a>
<a href="#">wd-06</a>	<a href="#">2006-02-14</a>	<a href="#">Doug Davis</a>	<a href="#">Issue 075 resolution</a>
<a href="#">wd-06</a>	<a href="#">2006-02-14</a>	<a href="#">Doug Davis</a>	<a href="#">Issues 086, 087 resolutions</a>
<a href="#">wd-06</a>	<a href="#">2006-02-15</a>	<a href="#">Gilbert Pilz</a>	<a href="#">Issue 088; added link for namespace URI; added text describing link; added non-normative reference for RDDDL 2.0</a>
<a href="#">wd-06</a>	<a href="#">2006-02-17</a>	<a href="#">Anish Karmarkar</a>	<a href="#">Removed a sentence in section 2.1 that talked about RM assertion parameters, as there aren't any.</a>
<a href="#">wd-06</a>	<a href="#">2006-02-17</a>	<a href="#">Anish Karmarkar</a>	<a href="#">Change the namespace to 200602.</a>
<a href="#">wd-07</a>	<a href="#">2006-02-22</a>	<a href="#">Doug Davis</a>	<a href="#">Accept all changes to create new WD</a> <a href="#">Minor typo fixed – thanks to Paul Cotton</a>
<a href="#">wd-07</a>	<a href="#">2006-02-23</a>	<a href="#">Doug Davis</a>	<a href="#">Added missing namespace table entries - MarcG</a>
<a href="#">wd-07</a>	<a href="#">2006-03-08</a>	<a href="#">Doug Davis</a>	<a href="#">Issue 097 applied</a>
<a href="#">wd-08</a>	<a href="#">2006-04-11</a>	<a href="#">Doug Davis</a>	<a href="#">Issue 021 applied</a>
<a href="#">wd-08</a>	<a href="#">2006-04-24</a>	<a href="#">Gilbert Pilz</a>	<a href="#">Misc cleanups prior to publishing to TC.</a>
<a href="#">wd-09</a>	<a href="#">2006-05-29</a>	<a href="#">Gilbert Pilz</a>	<a href="#">Issue 117 applied</a>
<a href="#">wd-10</a>	<a href="#">2006-06-05</a>	<a href="#">Gilbert Pilz</a>	<a href="#">Accept all changes; bump WD number</a>
<a href="#">wd-10</a>	<a href="#">2006-06-07</a>	<a href="#">Doug Davis</a>	<a href="#">Applied lots of minor edits from Marc Goodner</a>
<a href="#">wd-10</a>	<a href="#">2006-06-13</a>	<a href="#">Doug Davis</a>	<a href="#">Applied a couple of minor edits</a>
<a href="#">wd-10</a>	<a href="#">2006-07-21</a>	<a href="#">Doug Davis</a>	<a href="#">Issues 122-124 applied</a>

<b>Revision</b>	<b>Date</b>	<b>By Whom</b>	<b>What</b>
<a href="#">wd-10</a>	<a href="#">2006-07-27</a>	<a href="#">Doug Davis</a>	<a href="#">Copied list of TC members from RM spec (i134)</a>
<a href="#">wd-10</a>	<a href="#">2006-08-04</a>	<a href="#">Doug Davis</a>	<a href="#">Updated old namespaces – found by PaulC</a>
<a href="#">wd-10</a>	<a href="#">2006-08-04</a>	<a href="#">Doug Davis</a>	<a href="#">Verify all [refs]</a>
<a href="#">wd-10</a>	<a href="#">2006-08-04</a>	<a href="#">Doug Davis</a>	<a href="#">Change namespace to 2006/08</a>
<a href="#">cd-04</a>	<a href="#">2006-08-11</a>	<a href="#">Doug Davis</a>	<a href="#">Issue 158 applied</a>
<a href="#">cd-04</a>	<a href="#">2006-08-16</a>	<a href="#">Gilbert Pilz</a>	<a href="#">Fix date at 08/11/2006; formatting changes for better HTML rendering.</a>
<b>Revision</b>	<b>Date</b>	<b>By Whom</b>	<b>What</b>
<a href="#">wd-01.doc</a>	<a href="#">2005-07-06</a>	<a href="#">Ümit Yalçınalp</a>	<a href="#">Initial version created based on submission by the authors.</a>
<a href="#">1.0-wd-01.swx</a>	<a href="#">2005-09-01</a>	<a href="#">Ümit Yalçınalp</a>	<a href="#">Reformatted using Open Office</a>
<a href="#">1.1-wd-01.swx</a>	<a href="#">2005-09-18</a>	<a href="#">Ümit Yalçınalp</a>	<a href="#">Applied resolution i001</a> <a href="#">Applied resolution i015/16 (doc identifier)</a> <a href="#">Partial application of i017, final yyyy/mm required, changed doc URI to TBD pending yyyy/mm</a> <a href="#">Deleted original copyright section</a>
<a href="#">1.1-wd-01.swx</a>	<a href="#">2005-10-02</a>	<a href="#">Anish Karmarkar</a>	<a href="#">Applied resolution of i013 + minor editorial changes + fixed resolution of i017</a>
<a href="#">1.1-wd-01.swx</a>	<a href="#">2005-10-04</a>	<a href="#">Ümit Yalçınalp</a>	<a href="#">Applied actual value for yyyy/mm.</a> <a href="#">Added resolution of i009</a>
<a href="#">1.1-wd-01.swx</a>	<a href="#">2005-10-06</a>	<a href="#">Ümit Yalçınalp</a>	<a href="#">Editorial fixes suggested by Anish</a> <a href="#">Updated wd draft date to October 6th</a>
<a href="#">1.1-wd-01.swx</a>	<a href="#">2005-10-19</a>	<a href="#">Ümit Yalçınalp</a>	<a href="#">Editorial change to remove .swx suffix from doc id</a>
<a href="#">wd-02</a>	<a href="#">2005-11-03</a>	<a href="#">Gilbert Pilz</a>	<a href="#">Start wd-02 by changing title page from cd-01.</a>
<a href="#">wd-02</a>	<a href="#">2005-11-30</a>	<a href="#">Gilbert Pilz</a>	<a href="#">i072 — editorial nits</a>
<a href="#">wd-02</a>	<a href="#">2005-11-30</a>	<a href="#">Gilbert Pilz</a>	<a href="#">i074 – Use of [tcShortName] in artifact locations namespaces, etc</a>
<a href="#">wd-02</a>	<a href="#">2005-12-01</a>	<a href="#">Gilbert Pilz</a>	<a href="#">Updated fix to i074 to remove trailing '/' from wsrmp namespace.</a>
<a href="#">wd-02</a>	<a href="#">2005-12-01</a>	<a href="#">Anish Karmarkar</a>	<a href="#">Applied resolution for i022</a>
<a href="#">wd-02</a>	<a href="#">2005-12-01</a>	<a href="#">Anish Karmarkar</a>	<a href="#">Applied resolution for i024</a>
<a href="#">wd-02</a>	<a href="#">2005-12-01</a>	<a href="#">Anish Karmarkar</a>	<a href="#">Applied resolution for i054</a>
<a href="#">wd-02</a>	<a href="#">2005-12-01</a>	<a href="#">Anish Karmarkar</a>	<a href="#">Applied resolution of i073</a>

Revision	Date	By Whom	What
wd-2	2005-12-05	Anish Karmarkar	Applied resolution of i055
wd-2	2005-12-05	Ümit Yalçınalp	Changed fixed date in footer to current date
wd-3	2005-12-21	Doug Davis	Added i050
wd-3	2005-12-23	Ümit Yalçınalp	t057 resolution
wd-3	2005-12-23	Ümit Yalçınalp	Changed the ref to WS-RM to the WS-RX committee draft instead of original version Fixed Dug's email address
wd-3	2005-12-23	Ümit Yalçınalp	t060 resolution
wd-03	2005-12-27	Gilbert Pilz	Remove schema example and put it in its own artifact (wsrmp-1.1-schema-200510.xsd). Convert source file to OpenDocument format. Make line numbers all the same style.
wd-03	2005-12-28	Anish Karmarkar	Included a section link to c:\temp\wsrmp-1.1-schema-200510.xsd
wd-03	2006-01-04	Gilbert Pilz	Fixed formatting of included section.
wd-03	2006-01-05	Gilbert Pilz	Fix closing tag of normative outline for RMAssertion.
wd-04	2006-11-11	Doug Davis	Minor tweaks/types
wd-05	2006-01-23	Gilbert Pilz	Start wd-05 by accepting all changes from wd-04
wd-06	2006-01-23	Doug Davis	Minor typos found by Marc
wd-06	2006-02-14	Doug Davis	Issue 075 resolution
wd-06	2006-02-14	Doug Davis	Issues 086, 087 resolutions
wd-06	2006-02-15	Gilbert Pilz	Issue 088; added link for namespace URI; added text describing link; added non-normative reference for RDDL 2.0
wd-06	2006-02-17	Anish Karmarkar	Removed a sentence in section 2.1 that talked about RM assertion parameters, as there aren't any.
wd-06	2006-02-17	Anish Karmarkar	Change the namespace to 200602-

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