



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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17 [See the Acknowledgments \(Appendix A\).](#)
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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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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
wSDL	http://schemas.xmlsoap.org/wSDL/	[WSDL 1.1]
wsp	http://schemas.xmlsoap.org/ws/2004/09/policy	[WS-Policy]
wsrmp	http://docs.oasis-open.org/ws-rx/wsrmp/200608	This specification.
wsu	http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd	WS-Security-Utility Schema
Prefix	Namespace	Specification
wsp	http://schemas.xmlsoap.org/ws/2004/09/policy	[WS-Policy]
wsrmp	http://docs.oasis-open.org/ws-rx/wsrmp/200602	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 1.3Namespace) 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 (13)     <!-- omitted assertions -->
223 (14)   </wsp:Policy>
224 (15)
225 (16)   <!-- omitted elements -->
226 (17)
227 (18)   <wsdl:binding name="MyBinding" type="tns:MyPortType" >
228 (19)     <wsp:PolicyReference URI="#MyPolicy" />
229 (20)     <!-- omitted elements -->
230 (21)   </wsdl:binding>
231 (22)
232 (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

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322 **[WS-Security]**

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328 ~~Hallam-Baker, Ronald Monzillo, eds, OASIS Standard 200401, March 2004.~~

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374 TBD

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 <!--
383 OASIS takes no position regarding the validity or scope of any
384 intellectual property or other rights that might be claimed to pertain to
385 the implementation or use of the technology described in this document or
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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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~~<?xml version="1.0" encoding="UTF-8"?>~~
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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
wd-01.doc	2005-07-06	Ümit Yalçinalp	Initial version created based on submission by the authors.
1.0-wd-01.swx	2005-09-01	Ümit Yalçinalp	Reformatted using Open Office
1.1-wd-01.swx	2005-09-18	Ümit Yalçinalp	Applied resolution i001 Applied resolution i015/16 (doc identifier) Partial application of i017, final yyyy/mm required, changed doc URI to TBD pending yyyy/mm Deleted original copyright section
1.1-wd-01.swx	2005-10-02	Anish Karmarkar	Applied resolution of i013 + minor editorial changes + fixed resolution of i017
1.1-wd-01.swx	2005-10-04	Ümit Yalçinalp	Applied actual value for yyyy/mm. Added resolution of i009
1.1-wd-01.swx	2005-10-06	Ümit Yalçinalp	Editorial fixes suggested by Anish Updated wd draft date to October 6th
1.1-wd-01.swx	2005-10-19	Ümit Yalçinalp	Editorial change to remove .swx suffix from doc id.
wd-02	2005-11-03	Gilbert Pilz	Start wd-02 by changing title page from cd-01.
wd-02	2005-11-30	Gilbert Pilz	i072 – editorial nits
wd-02	2005-11-30	Gilbert Pilz	i074 - Use of [tcShortName] in artifact locations namespaces, etc
wd-02	2005-12-01	Gilbert Pilz	Updated fix to i074 to remove trailing '/' from wsrmp namespace.
wd-02	2005-12-01	Anish Karmarkar	Applied resolution for i022
wd-02	2005-12-01	Anish Karmarkar	Applied resolution for i024
wd-02	2005-12-01	Anish Karmarkar	Applied resolution for i054
wd-02	2005-12-01	Anish Karmarkar	Applied resolution of i073
wd-2	2005-12-05	Anish Karmarkar	Applied resolution of i055
wd-2	2005-12-05	Ümit Yalçinalp	Changed fixed date in footer to current date
wd-3	2005-12-21	Doug Davis	Added i050
wd-3	2005-12-23	Ümit Yalçinalp	I057 resolution
wd-3	2005-12-23	Ümit Yalçinalp	Changed the ref to WS-RM to the WS-RX committee.

Revision	Date	By Whom	What
			draft instead of original version Fixed Dug's email address
wd-3	2005-12-23	Ümit Yalçınalp	I060 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/typos
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 RDDDL 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.
wd-07	2006-02-22	Doug Davis	Accept all changes to create new WD Minor typo fixed – thanks to Paul Cotton
wd-07	2006-02-23	Doug Davis	Added missing namespace table entries - MarcG
wd-07	2006-03-08	Doug Davis	Issue 097 applied
wd-08	2006-04-11	Doug Davis	Issue 021 applied
wd-08	2006-04-24	Gilbert Pilz	Misc cleanups prior to publishing to TC.
wd-09	2006-05-29	Gilbert Pilz	Issue 117 applied
wd-10	2006-06-05	Gilbert Pilz	Accept all changes; bump WD number
wd-10	2006-06-07	Doug Davis	Applied lots of minor edits from Marc Goodner
wd-10	2006-06-13	Doug Davis	Applied a couple of minor edits
wd-10	2006-07-21	Doug Davis	Issues 122-124 applied

Revision	Date	By Whom	What
wd-10	2006-07-27	Doug Davis	Copied list of TC members from RM spec (i134)
wd-10	2006-08-04	Doug Davis	Updated old namespaces – found by PaulC
wd-10	2006-08-04	Doug Davis	Verify all [refs]
wd-10	2006-08-04	Doug Davis	Change namespace to 2006/08
cd-04	2006-08-11	Doug Davis	Issue 158 applied
cd-04	2006-08-16	Gilbert Pilz	Fix date at 08/11/2006; formatting changes for better HTML rendering.
Revision	Date	By Whom	What
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wd-02	2005-12-01	Anish Karmarkar	Applied resolution for i022
wd-02	2005-12-01	Anish Karmarkar	Applied resolution for i024
wd-02	2005-12-01	Anish Karmarkar	Applied resolution for i054
wd-02	2005-12-01	Anish Karmarkar	Applied resolution of i073

Revision	Date	By Whom	What
wd-2	2005-12-05	Anish Karmarkar	Applied resolution of i055
wd-2	2005-12-05	Ümit Yalçinalp	Changed fixed date in footer to current date
wd-3	2005-12-21	Doug Davis	Added i050
wd-3	2005-12-23	Ümit Yalçinalp	t057 resolution
wd-3	2005-12-23	Ümit Yalçinalp	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 Yalçinalp	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.
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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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