



WS-Trust 1.3 Errata

Committee Draft

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This specification errata is related to WS-Trust v1.3.

Abstract:

This document lists errata for **WS-Trust 1.3 OASIS Standard** [WS-Trust] produced by the WS-SX Technical Committee. The standard was approved by the OASIS membership on 1 March 2007.

Status:

This document was last revised or approved by the WS-SX TC on the above date. The level of approval is also listed above. Check the "Latest Approved Version" location noted above for possible later revisions of this document.

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Table of contents

- 1 Issues Addressed4
- 2 Typographical/Editorial Errors5
- 3 Normative Errors..... 12
- 4 References..... 13
- Appendix A. Acknowledgements..... 14

1 **1 Issues Addressed**

2 The following issues related to WS-Trust 1.3 as recorded in the [WS-SX Issues] have been addressed in
3 this document.

Issue	Description
ER012	Review normative RFC 2119 language in WS-Trust

4

2 Typographical/Editorial Errors

2.1 Normative language capitalization changes

The following changes do not affect the normative meaning of the text, they are only to properly capitalize 2119 terms. The changes listed below document the changes as they appear in the text. There were many instances of the terms OPTIONAL and REQUIRED in the schema exemplar descriptions that appeared un-capitalized that are not captured below but that have also been addressed. All other 2119 terms that remain un-capitalized are used in their English sense.

Line 212

Authentication of requests is based on a combination of OPTIONAL network and transport-provided security and information (claims) proven in the message

Line 231

This model is illustrated in the figure below, showing that any requestor MAY also be a service, and that the Security Token Service is a Web service (that is, it MAY express policy and require security tokens).

Line 242

In the figure above the arrows represent possible communication paths; the requestor MAY obtain a token from the security token service, or it MAY have been obtained indirectly. The requestor then demonstrates authorized use of the token to the Web service. The Web service either trusts the issuing security token service or MAY request a token service to validate the token (or the Web service MAY validate the token itself).

In summary, the Web service has a policy applied to it, receives a message from a requestor that possibly includes security tokens, and MAY have some protection applied to it using [WS-Security] mechanisms.

Line 254

In brokered trust models, the signature MAY NOT verify the identity of the claimant – it MAY verify the identity of the intermediary, who MAY simply assert the identity of the claimant.

Line 259

The trust engine MAY need to externally verify or broker tokens

Line 265

In this specification we define how security tokens are requested and obtained from security token services and how these services MAY broker trust and trust policies so that services can perform step 3.

Line 280

As part of a message flow, a request MAY be made of a security token service to exchange a security token (or some proof) of one form for another

Line 289

46 the security token service generating the new token MAY NOT need to trust the authority that issued the
47 original token provided by the original requestor since it does trust the security token service that is
48 engaging in the exchange for a new security token

49

50 Line 300

51 An administrator or other trusted authority MAY designate that all tokens of a certain type are

52

53 Line 303

54 or the security token service MAY provide this function as a service to trusting services.

55

56 Line 306

57 These mechanisms are non-normative and are NOT REQUIRED in any way.

58

59 Line 313

60 Trust hierarchies – Building on the trust roots mechanism, a service MAY choose to allow hierarchies of
61 trust so long as the trust chain eventually leads to one of the known trust roots. In some cases the
62 recipient MAY require the sender to provide the full hierarchy. In other cases, the recipient MAY be able
63 to dynamically fetch the tokens for the hierarchy from a token store.

64

65 Line 335

66 or they MAY return a token with their chosen parameters that the requestor MAY then choose to discard
67 because it doesn't meet their needs

68

69 Line 339

70 Other specifications MAY define specific bindings and profiles of this mechanism for additional purposes.

71

72 Line 341

73 in some cases an anonymous request MAY be appropriate

74

75 Line 343

76 If not a fault SHOULD be generated (but is NOT REQUIRED to be returned for denial-of-service reasons).

77

78 Line 415 (this one changes a “shouldn’t”)

79 In general, the returned token SHOULD be considered opaque to the requestor. That is, the requestor
80 SHOULD NOT be required to parse the returned token.

81

82 Line 429

83 and the value of the OPTIONAL @Context attribute

84

85 Line 432

86 In such cases, the RSTR MAY be passed in the body or in a header block.

87

88 Line 475

89 the ellipses below represent the different containers in which this element MAY appear
90
91 Line 518
92 This binding supports the OPTIONAL use of exchanges during the token acquisition process as well as
93 the OPTIONAL use of the key extensions described in a later section.
94
95 Line 522
96 the following OPTIONAL elements
97
98 Line 561
99 This REQUIRED attribute contains a URI that indicates the syntax used to specify the set of requested
100 claims along with how that syntax SHOULD be interpreted.
101
102 Line 574
103 The format is assumed to be understood by the requestor because the value space MAY be
104
105 Line 580
106 The issuer is not obligated to honor this range – they MAY
107
108 Line 587
109 The difference in time SHOULD be minimized.
110
111 Line 697
112 Each request MAY generate more than one RSTR sharing the same Context attribute value
113
114 Line 711
115 Note: that these operations require that the service can either succeed on all the RST requests or MUST
116 NOT perform any partial operation.
117
118 Line 722
119 If any error occurs in the processing of the RSTC or one of its contained RSTs, a SOAP fault MUST be
120 generated for the entire batch request so no RSTC element will be returned.
121
122 Line 741
123 the following OPTIONAL elements
124
125 Line 833
126 The token issuer can OPTIONALLY provide
127
128 Line 990
129 As a result, the proof-of-possession tokens, and possibly lifetime and other key parameters elements,
130 MAY be different
131

132 Line 1071
133 If confidentiality protection of the <wst:IssuedTokens> header is REQUIRED then the entire header
134 MUST be encrypted using the <wsse11:EncryptedHeader> construct.
135
136 Line 1131
137 and the OPTIONAL <wst:Lifetime> element
138
139 Line 1167
140 This OPTIONAL element indicates that returned tokens SHOULD allow requests for postdated tokens.
141
142 Line 1225
143 If a client needs to ensure the validity of a token, it MUST validate the token at the issuer.
144
145 Line 1292
146 this section defines an OPTIONAL binding
147
148 Line 1354
149 The result MAY be a status, a new token, or both.
150
151 Line 1370
152 The request provides a token upon which the request is based and OPTIONAL tokens. As well, the
153 OPTIONAL <wst:TokenType> element
154
155 Line 1371
156 This MAY be any supported token type or it MAY be the following URI indicating that only status is
157 desired:
158
159 Line 1378
160 which is OPTIONAL
161
162 Line 1467
163 However, there are many scenarios where a set of exchanges between the parties is REQUIRED prior to
164 returning (e.g., issuing) a security token.
165
166 Line 1487
167 with the issued security token and OPTIONAL proof-of-possession token
168
169 Line 1502
170 (and MAY contain initial negotiation/challenge information)
171
172 Line 1504
173 Optionally, this MAY return token information
174

175 Line 1572
176 Exchange requests MAY also utilize existing binary formats
177
178 Line 1579
179 ellipses below indicate that this element MAY be placed in different containers
180
181 Line 1602
182 In some cases it MAY be necessary to provide a key exchange token so that the other party (either
183 requestor or issuer) can provide entropy or key material as part of the exchange. Challenges MAY NOT
184 always provide a usable key as the signature may use a signing-only certificate.
185
186 Line 1606
187 The section describes two OPTIONAL elements
188
189 Line 1608
190 ellipses below indicate that this element MAY be placed in different containers
191
192 Line 1617
193 This OPTIONAL element is used to indicate that the receiving party (either the original requestor or
194 issuer) SHOULD provide a KET to the other party on the next leg of the exchange.
195
196 Line 1822
197 This MAY be built into the exchange messages
198
199 Line 1832
200 To this end, the following computed key algorithm is defined to be OPTIONALLY used in these scenarios
201
202 Line 1837
203 However, until the exchange is actually completed it MAY be (and is often) inappropriate to use the
204 computed keys. As well, using a token that hasn't been returned to secure a message may (no change,
205 English) complicate processing since it crosses the boundary of the exchange and the underlying
206 message security. This means that it MAY NOT be appropriate to sign the final leg of the exchange using
207 the key derived from the exchange.
208
209 Line 1874
210 This <wst:CombinedHash> element is OPTIONAL
211
212 Line 1878
213 since all types of requests MAY issue security tokens they could apply to other bindings
214
215 Line 1924
216 The syntax for these OPTIONAL elements is as follows
217

218 Line 1950
219 That is, requestors SHOULD be familiar with the recipient policies
220
221 Line 1996
222 This element either contains a security token or a <wsse:SecurityTokenReference> element that
223 references the security token containing the key that SHOULD be used in the returned token.
224
225 Line 2037
226 EncryptionAlgorithm – used to indicate the symmetric algorithm that the STS SHOULD use to encrypt the
227 T (e.g. AES256)
228
229 Line 2043
230 EncryptionAlgorithm – used to indicate the symmetric algorithm that the STS SHOULD use to encrypt T
231 for RP (e.g. AES256)
232 KeyWrapAlgorithm – used to indicate the KeyWrap algorithm that the STS SHOULD use to wrap the
233 generated key that is used to encrypt the T for RP
234
235 Line 2052
236 EncryptionAlgorithm – used to indicate the symmetric algorithm that the STS SHOULD use to encrypt T
237 for RP (e.g. AES256)
238
239 Line 2059
240 EncryptionAlgorithm - used to indicate the symmetric algorithm that the STS SHOULD use to encrypt T
241 for RP (e.g. AES256)
242 KeyWrapAlgorithm – used to indicate the KeyWrap algorithm that the STS SHOULD use to wrap the
243 generated key that is used to encrypt the T for RP
244
245 Line 2140
246 This OPTIONAL element, of type xs:boolean, specifies whether the requested security token SHOULD be
247 marked as "Forwardable"
248
249 Line 2145
250 This OPTIONAL element, of type xs:boolean, specifies whether the requested security token SHOULD be
251 marked as "Delegatable".
252
253 Line 2224
254 Arbitrary types MAY be used to specify participants
255
256 Line 2248
257 OPTINALLY the <wst:TokenType> element can be specified in the request and can indicate
258
259 Line 2363
260 Other specifications and profiles MAY provide additional details on key exchange
261

262 Line 2376
263 In these cases both parties SHOULD contribute entropy to the key exchange by means of the
264 <wst:entropy> element
265
266 Line 2403
267 If the requestor provides key material that the recipient doesn't accept, then the issuer SHOULD reject the
268 request.
269
270 Line 2492
271 A third party MAY also act as a broker to transfer keys
272
273 Line 2631
274 The perfect forward secrecy property MAY be achieved by

275 **3 Normative Errors**

276 None.

277 **4 References**

- 278 [WS-SX Issues] WS-SX TC Issues List
279 <http://docs.oasis-open.org/ws-sx/issues/Issues.xml>
280 [WS-Trust] OASIS Standard, "WS-Trust 1.3", March 2007
281 <http://docs.oasis-open.org/ws-sx/ws-trust/200512>

282 **Appendix A. Acknowledgements**

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