



WS-SecurityPolicy 1.2 Errata

Committee Draft

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This specification errata is related to WS-SecurityPolicy v1.2.

Abstract:

This document lists errata for **WS-SecurityPolicy 1.2 OASIS Standard** [WS-SecurityPolicy] produced by the WS-SX Technical Committee. The standard was approved by the OASIS membership on 1 July 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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1 Issues Addressed

The following issues related to WS-SecurityPolicy 1.2 as recorded in the [WS-SX Issues] have been addressed in this document.

Issue	Description
ER001	Inconsistent IncludeToken URI between spec and schema xsd file
ER002	Editorial comments on SP
ER004	Wrong Security Context Token assertion in example
ER007	Minor editorial addition to <ContentEncryptedElements> Assertion
ER009	Policy Assertion Parameters and alternatives
ER010	Typo in the Security Header Layout section
ER011	Modification request for issue PR014
ER006	Presence of wsu:Timestamp when [Timestamp] is false
ER014	Review normative RFC 2119 language in WS-SecurityPolicy
i165	SP errata

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 121

Extensibility points in the exemplar MAY NOT be described in the corresponding text

Line 130

WS-SecurityPolicy SHOULD be applicable to any version of SOAP

Line 321

Assertions MAY be used to further qualify a specific aspect of another assertion. For example, an assertion describing the set of algorithms to use MAY qualify the specific behavior of a security binding

Line 338

Any REQUIRED message elements (e.g. timestamps) in the wsse:Security header

Line 347

Note that a service MAY choose to reject messages despite them conforming to its policy, for example because a client certificate has been revoked. Note also that a service MAY choose to accept messages that do not conform to its policy.

Line 365

This section defines properties that are referenced later in this document describing the RECOMMENDED or REQUIRED attachment points for various assertions.

Line 489

Multiple instances of this element MAY appear within this assertion and SHOULD be treated as separate references in a signature when message security is used

Line 571

Multiple instances of this element MAY appear within this assertion and SHOULD be treated as separate references

Line 597

Multiple instances of this element MAY appear within this assertion and SHOULD be treated as separate references

46
47 Line 628
48 Multiple instances of this element MAY appear within this assertion and SHOULD be treated as a
49 combined XPath expression
50
51 Line 658
52 Any token assertion MAY also carry an OPTIONAL sp:IncludeToken attribute
53
54 Line 659
55 This attribute indicates whether the token SHOULD be included
56
57 Line 664 (in table)
58 an external reference to the token SHOULD be used.
59 Subsequent related messages sent between the recipient and the initiator MAY refer to
60
61 Line 673
62 A token assertion MAY carry a sp:IncludeToken attribute that requires that the token be included in the
63 message
64
65 Line 684
66 then references to that token are REQUIRED to contain all the specified reference types.
67
68 Line 691
69 Any token assertion MAY also carry an OPTIONAL sp:Issuer element
70
71 Line 696
72 Any token assertion MAY also carry an OPTIONAL sp:IssuerName element.
73
74 Line 703
75 While both sp:Issuer and sp:IssuerName elements are OPTIONAL they are also mutually exclusive
76
77 Line 706
78 Any token assertion MAY also carry an OPTIONAL wst:Claims element
79
80 Line 710
81 This element indicates the REQUIRED claims that the security token MUST contain in order to satisfy the
82 requirements of the token assertion.
83
84 Line 713
85 Individual token assertions MAY further limit what claims MAY be specified for that specific token
86 assertion.
87
88 Line 716

89 As long as the union of all tokens in the received message contains the REQUIRED set of claims from
90 REQUIRED token issuers the message is valid according to the receiver's policy.
91
92 Line 736
93 This boolean property specifies whether derived keys SHOULD be used as defined in WS-
94 SecureConversation
95
96 Line 900
97 Note: The IssuedToken MAY or MAY NOT be associated with key material and such key material MAY
98 be symmetric or asymmetric.
99
100 Line 902
101 Services MAY also include information in the sp:RequestSecurityTokenTemplate element
102
103 Line 1180
104 then either the sp:SecureConversationToken or the sp:IssuedToken assertion SHOULD be used instead
105
106 Line 1187
107 Because this token is issued by the target service and MAY NOT have a separate port
108
109 Line 1379
110 the sp:IssuedToken assertion SHOULD be used instead
111
112 Line 1451
113 the sp:IssuedToken assertion SHOULD be used instead
114
115 Line 1597
116 This property specifies the algorithm suite REQUIRED for performing cryptographic operations with
117 symmetric or asymmetric key based security tokens.
118
119 Line 1635
120 This property indicates the order in which integrity and confidentiality are applied to the message, in
121 cases where both integrity and confidentiality are REQUIRED
122
123 Line 1639
124 This boolean property specifies whether the signature MUST be encrypted.
125
126 Line 1641
127 The primary signature element is NOT REQUIRED to be encrypted if the value is 'true'
128
129 Line 1646
130 This boolean property specifies whether signatures MUST cover the token used to generate that
131 signature.

132
133 Line 1650
134 It is RECOMMENDED that assertions that define values for this property apply to [Endpoint Policy
135 Subject].
136
137 Line 1653
138 This boolean property specifies whether signature digests over the SOAP body and SOAP headers
139 MUST only cover the entire body and entire header elements.
140
141 Line 1661
142 It is RECOMMENDED that assertions that define values for this property apply to [Endpoint Policy
143 Subject].
144
145 Line 1674
146 then it SHOULD appear before the ds:Signature and xenc:ReferenceList elements
147
148 Line 1700
149 then it SHOULD appear before the ds:Signature and xenc:ReferenceList elements
150
151 Line 1719
152 However, the xenc:ReferenceList is NOT REQUIRED to appear before independently encrypted tokens
153 such as the xenc:EncryptedKey token as defined in WSS
154
155 Line 2133
156 Additional tokens MAY be specified to augment the claims
157
158 Line 2134
159 This section defines seven properties related to supporting token requirements which MAY be referenced
160 by a Security Binding
161
162 Line 2145
163 Supporting tokens MAY be specified at a different scope than the binding assertion
164
165 Line 2148
166 the sender SHOULD merge the requirements by including all tokens
167
168 Line 2152
169 all the tokens SHOULD sign and encrypt the various message parts
170
171 Line 2161
172 To illustrate the different ways that supporting tokens MAY be bound to the message
173
174 Line 2165

175 Even before any supporting tokens are added, each binding requires that the message is signed using a
176 token satisfying the REQUIRED usage for that binding
177
178 Line 2171
179 Note: if REQUIRED, the initiator MAY also include in the Security header the token used as the basis for
180 the message signature (Sig1), not shown in the diagram
181
182 Line 2178
183 Supporting tokens are included in the security header and MAY OPTIONALLY include additional
184 message parts to sign and/or encrypt
185
186 Line 2229
187 Signed tokens are included in the “message signature” as defined above and MAY OPTIONALLY include
188 additional message parts to sign and/or encrypt
189
190 Line 2283
191 produced from the message signature and MAY OPTIONALLY include
192
193 Line 2339
194 This assertion MAY OPTIONALLY include additional message parts to sign and/or encrypt
195
196 Line 2345
197 If transport security is used, the token (Tok2) is included in the Security header and the signature (Sig2)
198 SHOULD cover the message timestamp as illustrated below
199
200 Line 2485
201 There are several OPTIONAL aspects to the WSS: SOAP Message Security specification
202
203 Line 2496
204 a token MAY be referenced using different mechanisms
205
206 Line 2551
207 This boolean property specifies whether wsse11:SignatureConfirmation elements SHOULD be used
208
209 Line 2634
210 These assertions relate to interactions with a Security Token Service and MAY augment the behaviors
211 defined by
212
213 Line 2649
214 A challenge issued by the server MAY increase the number of messages exchanged by the client and
215 service
216
217 Line 2656

218 This boolean property indicates whether client entropy is REQUIRED to be used as key material for a
219 requested proof token. A value of 'true' indicates that client entropy is REQUIRED. A value of 'false'
220 indicates that client entropy is NOT REQUIRED
221
222 Line 2661
223 This boolean property indicates whether server entropy is REQUIRED to be used as key material for a
224 requested proof token. A value of 'true' indicates that server entropy is REQUIRED. A value of 'false'
225 indicates that server entropy is NOT REQUIRED
226
227 Line 2881
228 Policy MAY be embedded inside an Issued Token assertion, or acquired out-of-band. There MAY be an
229 explicit trust relationship between the Server and the STS. There MUST be a trust relationship between
230 the Client and the STS.
231
232 Line 2885
233 client-specific parameters that MUST be understood
234
235 Line 2898
236 The Client MAY augment or replace the contents of the RST
237
238 Line 2902
239 The Issued Token Policy Assertion contains elements which MUST be understood by the Client. The
240 assertion contains one element which contains a list of arbitrary elements which SHOULD be sent along
241 to the STS
242
243 Line 2908
244 All items are OPTIONAL , since the Server and STS MAY already have a pre-arranged relationship
245
246 Line 3808
247 A wsse:UsernameToken MAY be encrypted when a transport binding is not being used
248

249 **2.2 Section 2 Security Policy Model**

250 Added after line 288
251 Parameters defined by this specification represent additional information for engaging behaviors that do
252 not need to participate in matching. When multiple security policy assertions of the same type with
253 parameters present occur in the same policy alternative the parameters should be treated as a union.
254 Note that a service may choose to accept messages that do not match its policy.

255 **2.3 Section 4.2.3 ContentEncryptedElements Assertion**

256 Added after line 593
257 If no attribute is provided, then XPath 1.0 is assumed.

2.4 Section 5.1.1 Token Inclusion Values

The schema had token inclusion values defined that did not match the values defined in the specification. The following schema fragment was corrected.

Original, incorrect, schema fragment

```
<xs:simpleType name="IncludeTokenType">
  <xs:restriction base="xs:anyURI" >
    <xs:enumeration value="http://docs.oasis-open.org/ws-sx/ws-
trust/200702/ws-securitypolicy/IncludeToken/Never" />
    <xs:enumeration value="http://docs.oasis-open.org/ws-sx/ws-
trust/200702/ws-securitypolicy/IncludeToken/Once" />
    <xs:enumeration value="http://docs.oasis-open.org/ws-sx/ws-
trust/200702/ws-securitypolicy/IncludeToken/AlwaysToRecipient" />
    <xs:enumeration value="http://docs.oasis-open.org/ws-sx/ws-
trust/200702/ws-securitypolicy/IncludeToken/AlwaysToInitiator" />
    <xs:enumeration value="http://docs.oasis-open.org/ws-sx/ws-
trust/200702/ws-securitypolicy/IncludeToken/Always" />
  </xs:restriction>
</xs:simpleType>
```

Updated, correct, schema fragment

```
<xs:simpleType name="IncludeTokenType">
  <xs:restriction base="xs:anyURI" >
    <xs:enumeration value="http://docs.oasis-open.org/ws-sx/ws-
securitypolicy/200702/IncludeToken/Never" />
    <xs:enumeration value="http://docs.oasis-open.org/ws-sx/ws-
securitypolicy/200702/IncludeToken/Once" />
    <xs:enumeration value="http://docs.oasis-open.org/ws-sx/ws-
securitypolicy/200702/IncludeToken/AlwaysToRecipient" />
    <xs:enumeration value="http://docs.oasis-open.org/ws-sx/ws-
securitypolicy/200702/IncludeToken/AlwaysToInitiator" />
    <xs:enumeration value="http://docs.oasis-open.org/ws-sx/ws-
securitypolicy/200702/IncludeToken/Always" />
  </xs:restriction>
</xs:simpleType>
```

2.5 Section 5.4.7 SecureConversationToken Assertion

Line 1282 changed

```
<sp:SC10SecurityContextToken />
```

to

```
<sp:SC13SecurityContextToken />
```

2.6 Section 6.4 [Signature Protection] Property

Lines 1640-1642 changed

The primary signature element is not required to be encrypted if the value is 'true' when there is nothing else in the message that is encrypted.

to

The primary signature element is not required to be encrypted if the value is 'true' when there is nothing in the message that is covered by this signature that is encrypted.

2.7 Section 6.7 [Security Header Layout] Property

Line 1665 table contents changed

305 wsse:Timestamp
306 to
307 wsu:Timestamp

308 **2.8 Section 7.5 AsymmetricBinding Assertion**

309 Line 2097 changed

310 The specified token populates the [Recipient Signature Token] property and is used for the message
311 signature from Recipient to recipient.

312 to

313 The specified token populates the [Recipient Signature Token] property and is used for the message
314 signature from recipient to the initiator.

315

316 Lines 2103 changed

317 The specified token populates the [Recipient Encryption Token] property and is used for the message
318 encryption from recipient to Recipient.

319 to

320 The specified token populates the [Recipient Encryption Token] property and is used for the message
321 encryption from initiator to recipient.

322 **2.9 Section 10.1 Trust13 Assertion**

323 Line 2720 changed

324 sp:Trust10

325 to

326 sp:Trust13

327 **3 Normative Errors**

328 None.

329

330 4 References

- 331 [WS-SX Issues] WS-SX TC Issues List
332 <http://docs.oasis-open.org/ws-sx/issues/Issues.xml>
333 [WS-SecurityPolicy] OASIS Standard, "WS-SecurityPolicy 1.2", July 2007
334 <http://docs.oasis-open.org/ws-sx/ws-securitypolicy/200702>

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