



Errata for the OASIS SAML 1.1 Committee Specifications

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Abstract:

This document lists the reported potential errata against the OASIS SAML 1.1 Committee Specifications and their status.

Status:

This document will be updated alongside the SAML Committee Specifications until such time as the specifications are frozen against editorial changes and sent to the OASIS membership for voting.

Comments on issues with the SAML specifications are welcome. If you are on the security-services@lists.oasis-open.org list for committee members, send comments there. If you are not on that list, subscribe to the security-services-comment@lists.oasis-open.org list and send comments there. To subscribe, send an email message to security-services-comment-request@lists.oasis-open.org with the word "subscribe" as the body of the message. If you have questions or comments on implementation issues, subscribe to the saml-dev@lists.oasis-open.org list and send comments there.

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1 Introduction

This document lists the reported errata against the OASIS SAML V1.1 release 00 Committee Specifications and their status..

2 Errata

2.1 E1: Section number inconsistencies

First reported by: Fredrick Hirsch, Nokia

Message: <http://lists.oasis-open.org/archives/security-services/200212/msg00000.html>

Document: Bindings and Profiles

Description: section numbers for the SOAP over HTTP need to be updated, namely 3.1.3.2 on line [258] for authentication, 3.1.3.3 on line [263] for integrity and 3.1.3.4 on line [267] for confidentiality

Options:

Disposition: Accepted for correction during TC meeting on 2/18/03.

2.2 E2: Typo

First reported by: Fredrick Hirsch

Message: <http://lists.oasis-open.org/archives/security-services/200212/msg00000.html>

Document: Bindings and Profiles

Description: There is an extra backslash on line 831.

Options:

Disposition: Accepted for correction during TC meeting on 2/18/03.

2.3 E3: Section Formatting

First reported by: Rob Philpott

Message: <http://lists.oasis-open.org/archives/security-services/200301/msg00016.html>

Document: Bindings and Profiles

Description: Line 291: The section number is not bolded as are all other section numbers.

Options:

1. Change formatting

Disposition: Accepted for correction during TC meeting on 2/18/03.

2.4 E4: Font Inconsistencies

First reported by: Rob Philpott

Message: <http://lists.oasis-open.org/archives/security-services/200301/msg00014.html>

Document: Assertions and Protocols

Description: Lines 722, 726: The font for the “Location” and “Binding” attributes is different from “AuthorityKind” on line 714.

Options:

1. Change formatting of line 714

Disposition: Accepted for correction during TC meeting on 2/18/03.

2.5 E5: Spelling errors

First reported by: Rob Philpott

Message: <http://lists.oasis-open.org/archives/security-services/200301/msg00014.html>

Document: Assertions and Protocols

Description: Line 887: interger should be integer

Options:

Correct spelling error

Disposition: Accepted for correction during TC meeting on 2/18/03.

2.6 E6: Spelling errors

First reported by: Prateek Mishra

Message: <http://lists.oasis-open.org/archives/security-services/200302/msg00022.html>

Document: Assertions and Protocols

Description: Line 1441 is in error and should be removed from this list.

Lines 1439-1444 state:

The following elements are intended specifically for use as extension points in an extension schema; their 1439 types are set to abstract, so that the use of an xsi:type attribute with these elements is REQUIRED: 1440

* <Assertion> 1441

* <Condition> 1442

* <Statement> 1443

* <SubjectStatement> 1444

An examination of the schema reveals that <Assertion> is of type <AssertionType> which is a concrete type. Thus there is no requirement that an xsi:type attribute must be used with assertions.

Options:

Correct error

Disposition: Accepted for correction during TC meeting on 2/18/03.

3 Potential Errata

.

3.1 PE1: HTTPS for inter-site transfer service and artifact transmission

First reported by: Fredrick Hirsch, Nokia

Message: <http://lists.oasis-open.org/archives/security-services/200212/msg00000.html>

Document: Bindings and Profiles

Description: Since SSL/TLS is recommended for inter-site transfer and artifact transmission, perhaps https should be shown in the examples at line [443], [483].

Options:

Disposition: Agreed to change it at TC meeting 2/18/03

3.2 PE2: clarify the expectations of SubjectConfirmationData

First reported by: Fredrick Hirsch

Message: <http://lists.oasis-open.org/archives/security-services/200212/msg00000.html>

Document: Bindings and Profiles

Description: It might be helpful to clarify the expectations of SubjectConfirmationData and ds:KeyInfo usage for the different ConfirmationMethods in this profile. Is it true that only holder-of-key would be expected to have a ds:KeyInfo SubjectConfirmation element (For the assertion subject), and none would have SubjectConfirmationData?

Options:

1. Reject. The Holder-of-Key case is not involved in any of the web browser profiles. The Browser/Artifact profile does not require the use of SubjectConfirmationData or ds:KeyInfo.
2. 2/18/03: Add supplementary text to explain use of <SubjectConfirmationData>

Disposition:

3.3 PE3: Bearer and Holder of Key in POST profile

First reported by: Fredrick Hirsch

Message: <http://lists.oasis-open.org/archives/security-services/200212/msg00000.html>

Document: Bindings and Profiles

Description: Presumably the Bearer method would have a ds:KeyInfo element as part of the SAML response signature, but this is separate from ConfirmationMethod.

Options:

1. Reject. While there is a requirement that the SAML response message must be signed (694-695) there is no implication that the included assertions contain ds:KeyInfo element
2. 2/18/03: Add supplementary text to explain use of <SubjectConfirmationData>

Disposition:

3.4 PE4: Encoding of URI in “Alternative SAML Artifact Format”

First reported by: Yuji Sakata and Juergen Kremp

Message: <http://lists.oasis-open.org/archives/security-services/200212/msg00002.html>

Document: Bindings and Profiles

165 **Description:** chapter 9 of the Bindings document introduces an alternative format for the
166 Assertion Artifact:

167 TypeCode := 0x0002

168 RemainingArtifact := AssertionHandle SourceLocation

169 AssertionHandle := 20-byte_sequence

170 SourceLocation := URI

171 To create the artifact, Base64 is to be applied to the concatenation of TypeCode and
172 RemainingArtifact. Base64 uses Bytes as input.

173 **Options:**

174 1. Specify UTF-8 as default character set

175 2. ??

176 **Disposition:** 2/18/03 – during meeting of TC it was decided to correct this. Prateek to
177 propose text changes.

178 3.5 PE5: Signing Assertions

179 **First reported by:** Ronald Monzillo

180 **Message:** <http://lists.oasis-open.org/archives/security-services/200212/msg00003.html>

181 **Document:** Assertions and Protocols

182 **Description:** Section 5, lines [1382-1387] indicate that a SAML assertion MUST be signed. The
183 intent here is to strongly advocate the use of signature when assertions are passing through
184 intermediaries. The use of “MUST” here is inappropriate, this is really only advice for profile
185 developers.

186 **Options:**

187 1. Change the specification to read “MAY”

188 2. Change the specification to read “SHOULD”

189 3. ??

190 **Disposition:** 2/18/03 – during meeting of TC it was decided to correct this to “SHOULD”.

191

192 3.6 PE6: Artifact and corresponding confirmation method

193 **First reported by:** Rob Philpott

194 **Message:** <http://lists.oasis-open.org/archives/security-services/200301/msg00016.html>

195 **Document:** Profiles and Bindings

196 **Description:** Section 5.3: Even though it isn’t explicitly stated, I have been assuming that the
197 “...:cm:artifact-01” refers to a type 1 artifact. If so, doesn’t there need to be a corresponding
198 confirmation method identifier for “...:cm:artifact-02”? Is there really a need to distinguish the
199 artifact types (i.e. “just use “...:cm:artifact”)? We should also be explicit as to whether providing
200 the actual artifact in the ConfirmationData is required, optional, or not permitted – Which is it?

201 **Options:**

202 1. Strike artifact-01

203 2. Add confirmation method identifier “...:cm:artifact-02”

3. Add a confirmation method ID (artifact) and indicate that either one can be used for 01, 03, or any other future.

Disposition: 2/18/03 – during meeting of TC it was decided to choose option 3

3.7 PE7: Normative Language

First reported by: Rob Philpott

Message: <http://lists.oasis-open.org/archives/security-services/200301/msg00014.html>

Document: Assertions and Protocols

Description: Line 961: change “may” to “MAY”.

Line 966: change “success would normally” to “Success MUST”.

Line 971: Change “must” to “MUST”.

Line 1237: Change subcodes MAY be to “subcodes may be”

Options:

Disposition: 2/18/03 – during meeting of TC it was decided to choose correct 966. Line 971 remains as is because it was an example. Line 1237 also remains unchanged.

3.8 PE8: non-Normative Language

First reported by: Rob Philpott

Message: <http://lists.oasis-open.org/archives/security-services/200301/msg00014.html>

Document: Assertions and Protocols

Description: Line 967: change “to be found therein” to “will be included” .

Line 1219: Change “request. Top-most” to “request. The top-most”

Line 1417: Change “REQUIRES” to “requires”

Options:

Disposition: 2/18/03 – during meeting of TC it was decided to choose correct 967 and 1219. Keep 1417 as is.

3.9 PE9: Reference to AuthorityKind

First reported by: Rob Philpott

Message: <http://lists.oasis-open.org/archives/security-services/200301/msg00014.html>

Document: Assertions and Protocols

Description: Lines 969-970: “exactly as for saml:AuthorityKind attribute; see Section 2.4.3.2” – The AuthorityKind section is referring to samlp:Query references not saml:Statement references. Folks read the reference to AuthorityKind and sometime try to figure out a relationship between RespondWith and AuthorityKind, which of course does not exist. The section reference is intended to highlight the use of saml and samlp Qnames. Also, AuthorityKind is an attribute, while RespondWith is an element, so the methods for specifying the values are different. I recommend removing the section reference and simply insert similar text inline.

Options:

Disposition: 2/18/03 – during meeting of TC it was decided to dispose of this PE as suggested. Rob to propose replacement text.

3.10 PE10: Guidance on Element <RespondWith>

First reported by: Rob Philpott

Message: <http://lists.oasis-open.org/archives/security-services/200301/msg00014.html>

Document: Assertions and Protocols

Description: Should provide better guidance on rationalizing use of RespondWith elements in a query and the associated Query type. I know there's been some discussion on this topic on the list, but I don't think the current text here is very clear. For example, we should be explicit about what happens on an AuthenticationQuery that includes a RespondWith for a saml:AttributeStatement. Another example is when an authority has an existing Web SSO assertion that contains both AuthenticationStatements and an AttributeStatement (e.g. what we used in the Interop). Now if a later AuthenticationQuery arrives for the SAML Subject with a RespondWith of saml:AuthenticationStatement, this Web SSO assertion should NOT be returned according to lines 963-964. So we should be explicit that if an assertion contains multiple statement types, there must be a RespondWith in the query for every statement type in the assertion (assuming at least one RespondWith is specified).

Options:

Disposition: 2/18/03 – during meeting of TC it was decided to send an email to the list to discuss this. Jahan will send email to the list starting the discussion.

3.11 PE11: Processing rules for AssertionIDReference

First reported by: Rob Philpott

Message: <http://lists.oasis-open.org/archives/security-services/200301/msg00014.html>

Document: Assertions and Protocols

Description: Section 3.2 (Requests) – Section 3.3 (Queries) provides not only definitions of query elements, it also provides processing rules and interpretation info for the Queries. But we don't do that for the <AssertionArtifact> or <AssertionIDReference> request types. Section 3.2.3 defines the <AssertionArtifact> element but doesn't say how it is used (of course this is discussed in the Profiles). There is no section describing the RequestType "saml:AssertionIDReference" here since the element is defined in section 2.3.1. When someone asked me why AssertionIDReference wasn't described, I at first thought it was an omission since all of the other request and query types are discussed in 3.2 and 3.3. Then I realized the saml/samlp distinction. But it might be clearer and avoid questions if there was a brief mention of processing rules for AssertionIDReference.

Options:

Disposition:

3.12 PE12: Miscellaneous additions and clarifications

First reported by: Rob Philpott

Message: <http://lists.oasis-open.org/archives/security-services/200301/msg00014.html>

Document: Assertions and Protocols

Description:

Lines 1061-1065: In addition to subject and authn method matching rules, we should indicate that the assertion processing rules are also impacted by the presence of RespondWith elements in the Query.

286 Section 3.3.4 AttributeQuery – Should also mention the subject-matching rules as described in
287 section 3.3.3
288 Line 1085: “the start of the current document” – In a query, the samlp:Request is the ****current****
289 document, so what does it mean to use a Resource with an empty URI?
290 Section 3.3.5 AuthorizationDecisionQuery – Should also mention the subject-matching rules as
291 described in section 3.3.3

292 **3.13 PE13: Miscellaneous additions and clarifications**

293

294 **First reported by:** Rob Philpott

295 **Message:** <http://lists.oasis-open.org/archives/security-services/200301/msg00014.html>

296 **Document:** Assertions and Protocols

297 **Description:**

298 Section 3.4.4 (Responses to <AuthnQuery> and <AttrQuery>) – Don’t the saml:Subject matching
299 rules described in this section also apply to <AuthzQuery>? In fact, I assume the rules should
300 apply to all <SubjectQuery> requests, including and extensions. So I think the section should be
301 more general.

302 Section 5.4.2 (C14n) – We should mention the preference for Exclusive C14N and refer to the
303 external Dsig Guidelines document.

304 **3.14 PE14: Requestor vs. Requester and glossary definition for** 305 **Responder**

306 **First reported by:** Rob Philpott

307 **Message:** <http://lists.oasis-open.org/archives/security-services/200302/msg00014.html>

308 **Document:** Assertions and Protocols

309 **Description:** In core, we use both spellings. The only normative use is in the definition of
310 <Status> where it the “requester” spelling is used. I recommend we change all “requestor”
311 spellings to “requester”. If folks want to use the “requestor” spelling, then it would be an issue
312 since it introduces a compatibility issue with the current spec. Note that the glossary uses the
313 “Requester” spelling”. There are about 15 uses of “requestor” in core, although one of them is in
314 the references section pointing to “*The Kerberos Network Authentication Requestor (V5)*” that we
315 wouldn’t want to change.

316

317 Also – we need to add a definition for “Responder” to the glossary. We use it in the specs. I’ll
318 provide a first shot at it (based on Requester):

319

320 Responder – A *system entity* that utilizes a protocol to respond to a request for services from
321 another system entity. The term “server” for this notion is not used because many system entities
322 simultaneously or serially act as both clients and servers.

323 **Options:**

324 **Disposition:**

325 **3.15 PE15: Browser POST profile does not explicitly call out** 326 **encoding**

327 **First reported by:** Jon Westbrook, Emerson Process Management

328 **Message:** sent to saml-dev list

329 **Document:** Profiles and Bindings
330 **Description:** In step 2 of this profile, the base64 encoding of a SAML response is embedded in a
331 HTML form. In order to do this you must first serialize the SAML response to a sequence of
332 octets, which can then be base64 encoded. What character encoding is supposed to be used to
333 serialize the SAML response to a sequence of octets? [lines 692-694 of the bindings document](#) it
334 appears that we haven't explicitly called out the use of UTF-8. This seems to be standard
335 technique used, for example, in c14n canonicalization.
336 **Options:** Explicitly call-out UTF-8 encoding
337 **Disposition:**
338

Appendix A. Revision History

Rev	Date	By Whom	What
Draft-00	2002-12-10	Jahan Moreh	Initial version based on emails to the list
Draft-01	2003-01-22	Jahan Moreh	Additions from Rob Philpott
Draft-02	2003-02-14	Jahan Moreh	Additions from Prateek Mishra
Draft-03	2003-02-18	Jahan Moreh	Updated based on discussions during SSTC meeting of 2/18/03.
Draft-04	2003-03-18	Jahan Moreh	Updated based on a message from Jon Westbrook and Prateek's response to that message

Appendix B. Notices

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