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
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:

2.2 E2: Typo
First reported by: Fredrick Hirsch
Document: Bindings and Profiles
Description: There is an extra backslash on line 831.
Options:
Disposition:

2.3 E3: Section Formatting
First reported by: Rob Philpott
Document: Bindings and Profiles
Description: Line 291: The section number is not bolded as are all other section numbers.
Options:
1. Change formatting
Disposition:

2.4 E4: Font Inconsistencies
First reported by: Rob Philpott
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:

2.5 E5: Spelling errors
First reported by: Rob Philpott
Document: Assertions and Protocols
Description: Line 887: interger should be integer
Options:
Correct spelling error

Disposition:

2.6 E6: Spelling errors
First reported by: Prateek Mishra
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 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:

3 Potential Errata

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

First reported by: Fredrick Hirsch, Nokia
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:

3.2 PE2: clarify the expectations of SubjectConfirmationData

First reported by: Fredrick Hirsch
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. ??
Disposition:

3.3 PE3: clarify the expectations of SubjectConfirmationData

First reported by: Fredrick Hirsch
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. ??
Disposition:

3.4 PE4: Encoding of URI in "Alternative SAML Artifact Format"

First reported by: Yuji Sakata and Juergen Kremp
Document: Bindings and Profiles

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

TypeCode := 0x0002
RemainingArtifact := AssertionHandle SourceLocation
AssertionHandle := 20-byte_sequence
SourceLocation := URI

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

Options:
1. Specify UTF-8 as default character set
2. ??

Disposition:

3.5 PE5: Signing Assertions

First reported by: Ronald Monzillo

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

Options:
1. Change the specification to read “MAY”
2. Change the specification to read “SHOULD”
3. ??

Disposition:

3.6 PE6: Artifact and corresponding confirmation method

First reported by: Rob Philpott

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

Options:
1. ??

Disposition:
3.7 PE7: Normative Language

First reported by: Rob Philpott
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:

3.8 PE8: non-Normative Language

First reported by: Rob Philpott
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:

3.9 PE9: Reference to AuthorityKind

First reported by: Rob Philpott
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 sampl: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 sampl 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:

3.10 PE10: Guidance on Element <RespondWith>

First reported by: Rob Philpott
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:

3.11 PE11: Processing rules for AssertionIDReference

First reported by: Rob Philpott
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
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.

Section 3.3.4 AttributeQuery - Should also mention the subject-matching rules as described in
section 3.3.3

Line 1085: "the start of the current document" - In a query, the samlp:Request is the **current**
document, so what does it mean to use a Resource with an empty URI?

Section 3.3.5 AuthorizationDecisionQuery - Should also mention the subject-matching rules as
described in section 3.3.3

3.13 PE13: Miscellaneous additions and clarifications

First reported by: Rob Philpott

Document: Assertions and Protocols

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

Section 5.4.2 (C14n) - We should mention the preference for Exclusive C14N and refer to the external DSig Guidelines document.

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

First reported by: Rob Philpott


Document: Assertions and Protocols

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

Also - we need to add a definition for "Responder" to the glossary. We use it in the specs. I'll provide a first shot at it (based on Requester):

Responder - A system entity that utilizes a protocol to respond to a request for services from another system entity. The term "server" for this notion is not used because many system entities simultaneously or serially act as both clients and servers.
Appendix A. Revision History

<table>
<thead>
<tr>
<th>Rev</th>
<th>Date</th>
<th>By Whom</th>
<th>What</th>
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<tr>
<td>Draft-00</td>
<td>2002-12-10</td>
<td>Jahan Moreh</td>
<td>Initial version based on emails to the list</td>
</tr>
<tr>
<td>Draft-01</td>
<td>2003-01-22</td>
<td>Jahan Moreh</td>
<td>Additions from Rob Philpott</td>
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<tr>
<td>Draft-02</td>
<td>2003-02-14</td>
<td>Jahan Moreh</td>
<td>Additions from Prateek Mishra</td>
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