MSIS

Errata for the OASIS Security

- Assertion Markup Language (SAML)
- 4 V1.1
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- 10 Editor:
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- 12 Abstract:
- 13 This document lists the reported errata and potential errata against the OASIS SAML 1.1
- 14 Committee Specifications and their status.
- 15 Status:
- 16 This document will be updated alongside the SAML Committee Specifications until such time as
- 17 the specifications are frozen against editorial changes and sent to the OASIS membership for
- 18 voting.
- 19 Comments on issues with the SAML specifications are welcome. If you are on the security-
- 20 services@lists.oasis-open.org list for committee members, send comments there. If you are not
- 21 on that list, subscribe to the security-services-comment@lists.oasis-open.org list and send
- 22 comments there. To subscribe, send an email message to security-services-comment-
- 23 request@lists.oasis-open.org with the word "subscribe" as the body of the message. If you have
- 24 questions or comments on implementation issues, subscribe to the saml-dev@lists.oasis-
- 25 open.org list and send comments there.
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- 27 [OASIS]

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1 Introduction

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

2 Errata

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73 2.1 E1: Section number inconsistencies

- 74 First reported by: Fredrick Hirsch, Nokia
- 75 Message: http://lists.oasis-open.org/archives/security-services/200212/msg00000.html
- 76 **Document:** Bindings and Profiles
- 77 **Description:** section numbers for the SOAP over HTTP need to be updated, namely 3.1.3.2 on
- 78 line [258] for authentication, 3.1.3.3 on line [263] for integrity and 3.1.3.4 on line [267] for
- 79 confidentiality
- 80 **Options:** Make corrections as suggested.
- Disposition: Accepted for correction during TC meeting on 2/18/03. Incorporated in Draft
- 82 01 of SAML 1.1 Bindings and Profiles.

83 **2.2 E2: Typo**

- 84 First reported by: Fredrick Hirsch, Nokia
- 85 Message: http://lists.oasis-open.org/archives/security-services/200212/msg00000.html
- 86 **Document:** Bindings and Profiles
- 87 **Description:** There is an extra backslash on line 831.
- 88 **Options:** Make corrections as suggested.
- 89 Disposition: Accepted for correction during TC meeting on 2/18/03. Incorporated in Draft
- 90 01 of SAML 1.1 Bindings and Profiles.

91 **2.3 E3: Section Formatting**

- 92 First reported by: Rob Philpott, RSA Security
- 93 Message: http://lists.oasis-open.org/archives/security-services/200301/msg00016.html
- 94 **Document:** Bindings and Profiles
- 95 **Description**: Line 291: The section number is not bolded as are all other section numbers.
- 96 **Options:** Change formatting

99

- 97 Disposition: Accepted for correction during TC meeting on 2/18/03. Incorporated in Draft
- 98 01 of SAML 1.1 Bindings and Profiles.

2.4 E4: Font Inconsistencies

- 100 First reported by: Rob Philpott, RSA Security
- 101 Message: http://lists.oasis-open.org/archives/security-services/200301/msg00014.html
- 102 **Document:** Assertions and Protocols
- 103 **Description**: Lines 722, 726: The font for the "Location" and "Binding" attributes is different from
- 104 "AuthorityKind" on line 714.

- 105 Options: Change formatting of line 714
- 106 Disposition: Accepted for correction during TC meeting on 2/18/03. Incorporated in Draft
- 107 02 of SAML 1.1 Assertions and Protocols.

108 **2.5 E5: Spelling errors**

- 109 First reported by: Rob Philpott, RSA Security
- 110 Message: http://lists.oasis-open.org/archives/security-services/200301/msg00014.html
- 111 **Document:** Assertions and Protocols
- 112 **Description**: Line 887: "interger" should be "integer"
- 113 **Options:** Correct spelling error
- 114 Disposition: Accepted for correction during TC meeting on 2/18/03. Incorporated in Draft
- 115 **02 of SAML 1.1 Assertions and Protocols.**

2.6 E6: Spelling errors

- 117 First reported by: Prateek Mishra, Netegrity
- 118 Message: http://lists.oasis-open.org/archives/security-services/200302/msg00022.html
- 119 **Document:** Assertions and Protocols
- 120 **Description**: Line 1441 is in error and should be removed from this list.
- 121 Lines 1439-1444 state:
- 122
- 123 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
- 127 * <Assertion> 1441
- 128 * <Condition> 1442
- 129 * <Statement> 1443
- 130 * <SubjectStatement> 1444
- 131
- An examination of the schema reveals that <Assertion> is of type <AssertionType> which is a
- 133 concrete type. Thus, there is no requirement that an xsi:type attribute must be used with
- 134 assertions.
- 135 **Options:** Correct error
- 136 Disposition: Accepted for correction during TC meeting on 2/18/03. Incorporated in Draft
- 137 02 of SAML 1.1 Assertions and Protocols.

138 2.7 E7: Normative use of MAY NOT

- 139 First reported by: Eve Maler, Sun Microsystems
- 140 Message: http://lists.oasis-open.org/archives/security-services/200304/msg00024.html
- 141 **Document:** Assertions and Protocols
- 142 **Description**: There are two instances of the phrase "MAY NOT" in the core spec (lines 1050 and
- 143 1258). This phrase is not actually defined by RFC 2119; it is likely that what was meant was
- 144 "MUST NOT". For this reason, and because "may not" is a classic ambiguous phrase in
- technical documentation ("don't do this", as opposed to "you may or may not do this"), it is
- recommend that we change it to "MUST NOT" in both locations.
- 147 Options: Change lines 1050 and 1258 from MAY NOT to MUST NOT.

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- Disposition: Accepted during TC meeting of April 08. Incorporated in Draft 04 of SAML 1.1 148
- 149 Assertions and Protocols.

2.8 E8: Extension types for <RespondWith> 150

- 151 First reported by: Eve Maler, Sun Microsystems
- Message: http://lists.oasis-open.org/archives/security-services/200304/msg00039.html 152
- 153 **Document:** Assertions and Protocols
- **Description**: In core 1.0 lines 971-973, it says: "To specify extension types, the <RespondWith> 154
- 155 element MUST contain exactly the extension element type as specified in the xsi:type attribute
- on the corresponding element." 156
- 157 There is a tiny bit of ambiguity in the sentence as it stands. The phrase "element type", to XML
- 158 DTD old-timers, means roughly an element declaration - it's a model for element instances.
- 159 With the advent of XML Schema and its OO-inspired design, we now have real "types" to which
- element declarations are bound. The xsi:type reference makes clear that what's meant is the 160
- type name, not the element name, but it threw me off. 161
- 162 Given this, we have a seemingly inconsistent situation. When the statement is a native SAML
- element, the content of <RespondWith> is a qualified element name. But when the statement is 163
- 164 a foreign extension element, the qualified type name has to be supplied instead.

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- Options: Fix the almost-ambiguity in V1.1 by saying "element's type" rather than "element type", 166
- and treat this as an editorial correction. 167
- 168 Disposition: Accepted during TC meeting of April 08, 2003. Incorporated in Draft 03 of
- SAML 1.1 Assertions and Protocols. 169

2.9 E9: Incorrect identifier for alternative SAML Artifact Format 170

- 171 First reported by: Rob Philpott, RSA Security
- Message: http://lists.oasis-open.org/archives/security-services/200304/msg00217.html 172
- 173 **Document: Bindings and Profiles**
- 174 **Description**: Line 941, lists the identifier for the alternative SAML Artifact Format as
- 175 "urn:oasis:names:tc:SAML:1.0:draft-sstc-bindings-model-13:profiles:artifact-02". The urn should
- be "urn:oasis:names:tc:SAML:1.0:profiles:artifact-02" to be consistent with he type 1 artifact 176
- 177 profile.

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- 178 **Options:** Make editorial correction.
- 179 Disposition: Make editorial correction as stated above. Incorporated in Draft 03 of SAML
- 1.1 Bindings and Profiles. 180

2.10 E10: Incorrect Characterization of Identifier Uniqueness

- 182 First reported by: Scott Cantor, Ohio State University and Internet 2
- Message: http://lists.oasis-open.org/archives/security-services/200307/msg00063.html 183
- 184 **Document:** Assertions and Protocols
- Description: Lines 236 and 237 of sstc-saml-core-1.1-cs-03 state: "the probability of two 185
- randomly chosen identifiers being identical MUST be less than 2⁻¹²⁸ and SHOULD be less than 2⁻¹²⁸ 186
- ¹⁶⁰". The correct statement is: the probability of two randomly chosen identifiers being identical MUST be less than **or equal to** 2⁻¹²⁸ and SHOULD be less **or equal to** 2⁻¹⁶⁰ 187
- 188
- Options: Make editorial correction. 189
- 190 Disposition: Incorporated in the final 1.1 committee specification.

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Options:

3 Potential Errata

3.1 PE1: HTTPS for inter-site transfer service and artifact 193 transmission 194 195 First reported by: Fredrick Hirsch, Nokia 196 Message: http://lists.oasis-open.org/archives/security-services/200212/msg00000.html 197 **Document:** Bindings and Profiles 198 **Description:** Since SSL/TLS is recommended for inter-site transfer and artifact transmission, 199 perhaps https should be shown in the examples at line [443], [483]. 200 **Options**: Use https in the examples. 201 Disposition: Agreed to change it at TC meeting 2/18/03. Incorporated in Draft 01 of SAML 202 1.1 Bindings and Profiles. 3.2 PE2: Clarify the expectations of SubjectConfirmationData 203 204 First reported by: Fredrick Hirsch, Nokia 205 Message: http://lists.oasis-open.org/archives/security-services/200212/msg00000.html 206 **Document:** Bindings and Profiles 207 Description: It might be helpful to clarify the expectations of SubjectConfirmationData and 208 ds: KeyInfo usage for the different ConfirmationMethods in this profile. \ 209 210 Options: 211 Reject. The Holder-of-Key case is not involved in any of the web browser profiles. The 212 Browser/Artifact profile does not require the use of SubjectConfirmationData or 213 ds:KeyInfo. 214 2/18/03: Add supplementary text to explain use of <SubjectConfrimationData> Disposition: April 01 TC meeting: TC voted to choose option 1. 215 3.3 PE3: Bearer and Holder of Key in POST profile 216 217 First reported by: Fredrick Hirsch, Nokia 218 Message: http://lists.oasis-open.org/archives/security-services/200212/msg00000.html 219 **Document:** Bindings and Profiles 220 **Description:** Presumably the Bearer method would have a ds:KevInfo element as part of the SAML response signature, but this is separate from ConfirmationMethod. 221

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

2/18/03: Add supplementary text to explain use of <SubjectConfrimationData>

Disposition: April 01 TC meeting: TC voted to choose option 1.

227 3.4 PE4: Encoding of URI in "Alternative SAML Artifact Format"

- 228 First reported by: Yuji Sakata, and Juergen Kremp, SAP
- 229 Message: http://lists.oasis-open.org/archives/security-services/200212/msg00002.html
- 230 **Document:** Bindings and Profiles
- 231 **Description**: chapter 9 of the Bindings document introduces an alternative format for the
- 232 Assertion Artifact:
- 233 TypeCode := 0x0002
- 234 RemainingArtifact := AssertionHandle SourceLocation
- 235 AssertionHandle := 20-byte_sequence
- 236 SourceLocation := URI
- 237 To create the artifact, Base64 is to be applied to the concatenation of TypeCode and
- 238 RemainingArtifact. Base64 uses Bytes as input.
- 239 Options:
- 1. Specify UTF-8 as default character set
- 2. Text proposed by Prateek on 18 April 2003: Insert at end of sentence on line 951:
- The SourceLocation URI is mapped to a sequence of bytes based on use of the UTF-8
- [RFC2279] encoding. Add to reference list: RFC 2279 UTF-8, a transformation
- 244 format of ISO 10646.
- 245 Disposition: 2/18/03 during meeting of TC it was decided to correct this. Prateek to
- 246 propose text changes. During TC meeting of April 22, 2003 SSTC accepted text as
- 247 proposed by Prateek (option 2 above). Incorporated in Draft 02 of SAML 1.1 Bindings and
- 248 Profiles.

249 3.5 PE5: Signing Assertions

- 250 First reported by: Ronald Monzillo, Sun Microsystems
- 251 Message: http://lists.oasis-open.org/archives/security-services/200212/msg00003.html
- 252 **Document:** Assertions and Protocols
- 253 **Description**: Section 5, lines [1382-1387] indicate that a SAML assertion MUST be signed. The
- 254 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.
- 257 **Options**:
- 258 1. Change the specification to read "MAY"
- 259 2. Change the specification to read "SHOULD"
- 260 Disposition: 2/18/03 during meeting of TC it was decided to correct this to "SHOULD".
- 261 Incorporated in Draft 02 of SAML 1.1 Assertions and Protocols.

262 3.6 PE6: Artifact and corresponding confirmation method

- 263 First reported by: Rob Philpott, RSA Security
- 264 Message: http://lists.oasis-open.org/archives/security-services/200301/msg00016.html
- 265 **Document:** Bindings and Profiles

- 266 **Description**: Section 5.3: Even though it isn't explicitly stated, one would assume that the
- 267 "...:cm:artifact-01" refers to a type 1 artifact. If so, doesn't there need to be a corresponding
- 268 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
- 270 the actual artifact in the ConfirmationData is required, optional, or not permitted Which is it?
- **271 Options:**
- 272 1. Strike artifact-01
- 273 2. Add confirmation method identifier "....artificat-02"
- 3. Add a confirmation method ID (artifact) and indicate that either one can be used for 01, 03, or any other future.
- 276 Disposition: 2/18/03 during meeting of TC it was decided to choose option 3.
- 277 Incorporated in Draft 02 of SAML 1.1 Assertions and Protocols.
- 278 4/29/03 It was decided that to deprecate artifact-01 and simply use artifact. After line 528
- 279 of protocols and bindings add a brief normative note: SAML authorities SHOULD NOT
- include SAML artifact in a Confirmation Data. Incorporated in Draft 03 of Binding and
- 281 Profiles.

282 3.7 PE7: Normative Language

- 283 First reported by: Rob Philpott, RSA Security
- 284 Message: http://lists.oasis-open.org/archives/security-services/200301/msg00014.html
- 285 **Document:** Assertions and Protocols
- 286 **Description**: Line 961: change "may" to "MAY".
- Line 966: change "success would normally" to "Success MUST".
- 288 Line 971: Change "must" to "MUST".
- 289 Line 1237: Change "subcodes MAY be" to "subcodes may be"
- 290 Options:
- 291 Disposition: 2/18/03 during meeting of TC it was decided to choose correct 966. Line 971
- 292 remains as is because it was an example. Line 1237 also remains unchanged.
- 293 Incorporated in Draft 02 of SAML 1.1 Assertions and Protocols.

294 3.8 PE8: non-Normative Language

- 295 First reported by: Rob Philpott, RSA Security
- 296 Message: http://lists.oasis-open.org/archives/security-services/200301/msg00014.html
- 297 **Document:** Assertions and Protocols
- 298 **Description**: Line 967: change "to be found therein" to "will be included".
- 299 Line 1219: Change "request. Top-most" to "request. The top-most"
- 300 Line 1417: Change "REQUIRES" to "requires"
- 301 **Options:**
- 302 Disposition: 2/18/03 during meeting of TC it was decided to choose correct 967 and 1219.
- 303 Keep 1417 as is. Incorporated in Draft 02 of SAML 1.1 Assertions and Protocols.

3.9 PE9: Reference to AuthorityKind

- 305 First reported by: Rob Philpott, RSA Security
- 306 Message: http://lists.oasis-open.org/archives/security-services/200301/msg00014.html

- 307 **Document:** Assertions and Protocols
- 308 **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
- 311 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
- 313 RespondWith is an element, so the methods for specifying the values are different. It is
- 314 recommended that we remove the section reference and simply insert similar text inline.
- 315 **Options:**
- 316 Disposition: 2/18/03 during meeting of TC it was decided to dispose of this PE as
- 317 suggested. Rob to propose replacement text. Incorporated in Draft 06 of SAML 1.1
- 318 Assertions and Protocols.

3.10 PE10: Guidance on Element < Respond With >

- 320 First reported by: Rob Philpott, RSA Security
- 321 Message: http://lists.oasis-open.org/archives/security-services/200301/msg00014.html
- 322 **Document:** Assertions and Protocols
- 323 **Description**: Should provide better guidance on rationalizing use of RespondWith elements in a
- 324 query and the associated Query type. There has been some discussion on this topic on the list,
- but the current text here is not very clear. For example, we should be explicit about what happens
- on an AuthenticationQuery that includes a RespondWith for a saml:AttributeStatement. Another
- 327 example is when an authority has an existing Web SSO assertion that contains both
- 328 AuthenticationStatements and an AttributeStatement (e.g. what we used in the Interop). Now if a
- 329 later AuthenticationQuery arrives for the SAML Subject with a RespondWith of
- 330 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
- 333 least one RespondWith is specified).
- 334 Options: 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.
- 336 Disposition: In light of the decision to deprecate <RespondWith> it was decided to not
- 337 make any changes.

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3.11 PE11: Processing rules for AssertionIDReference

- 339 First reported by: Rob Philpott
- 340 Message: http://lists.oasis-open.org/archives/security-services/200301/msg00014.html
- 341 **Document:** Assertions and Protocols
- 342 **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 asks why
- 348 AssertionIDReference wasn't described, at first one would think it was an omission since all of the
- other request and query types are discussed in 3.2 and 3.3. Then one would realize the
- saml/samlp distinction. But it might be clearer and avoid questions if there was a brief mention of
- 351 processing rules for AssertionIDReference.
- 352 **Options:** Provide additional text to clarify as follows:
- 353 3. Requests for Assertions by Reference

- In the context of a <Request> element, the <saml:AssertionIDReference> element is used to
- request an assertion by means of its ID. See Section 2.3.1 for more information on this element.
- 356 3. Element < Assertion Artifact>
- 357 The <AssertionArtifact> element is used to specify the assertion artifact that represents an
- assertion being requested. Its use is governed by the specific profile of SAML that is being used;
- see the SAML specification for bindings and profiles [SAMLBind] for more information on the use
- 360 of assertion artifacts in profiles. The following schema fragment defines the <AssertionArtifact>
- 361 element: <element name="AssertionArtifact" type="string"/>
- 362 Disposition: Accepted during TC meeting of April 08. Already incorporated in Draft 03 of
- 363 SAML 1.1 Assertions and Protocols.

3.12 PE12: Miscellaneous additions and clarifications

- 365 First reported by: Rob Philpott, RSA Security
- 366 Message: http://lists.oasis-open.org/archives/security-services/200301/msg00014.html
- 367 **Document:** Assertions and Protocols
- 368 **Description**:
- 369 1. 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.
- 372 2. Section 3.3.4 AttributeQuery Should also mention the subject-matching rules as described in
- 373 section 3.3.3
- 374 3. Line 1085: "the start of the current document" In a query, the samlp:Request is the
- 375 **current** document, so what does it mean to use a Resource with an empty URI?
- 4. Section 3.3.5 AuthorizationDecisionQuery Should also mention the subject-matching rules as
- 377 described in section 3.3.3
- 378 **Options:** for (1), (2), (4) add cross reference in the respective sections to clarify. For (3) add text
- 379 to strongly discourage use of empty URIs.
- 380 Disposition: April 01 TC meeting: Eve will make editorial changes. Incorporated in Draft 03
- 381 of SAML 1.1 Assertions and Protocols...

382 3.13 PE13: Miscellaneous additions and clarifications

- 383 First reported by: Rob Philpott, RSA Security
- 384 Message: http://lists.oasis-open.org/archives/security-services/200301/msg00014.html
- 385 **Document:** Assertions and Protocols
- 386 **Description**:
- 387 1. Section 3.4.4 (Responses to <AuthnQuery> and <AttrQuery>) Don't the saml:Subject
- 388 matching rules described in this section also apply to <AuthzQuery>? In fact, one could assume
- that the rules should apply to all <SubjectQuery> requests, including and extensions. Therefore,
- 390 the section should be more general.
- 391 2. Section 5.4.2 (C14n) We should mention the preference for Exclusive C14N and refer to the
- 392 external Dsig Guidelines document.
- 393 **Options:**
- 394 **Disposition: April 01 TC meeting:** For (1) see items 1,2, and 4 in PE 12 (Eve will make editorial
- 395 changes). Incorporated in Draft 03 of SAML 1.1 Assertions and Protocols.
- 396 For (2), Scott to propose text. Incorporated in Draft 06 of SAML 1.1 Assertions and
- 397 Protocols.

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

400 First reported by: Rob Philpott

- 401 Message: http://lists.oasis-open.org/archives/security-services/200302/msg00014.html
- 402 **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. It is recommended that 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.

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Also – we need to add a definition for "Responder" to the glossary. We use it in the specs. The definition for Responder could be:

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- 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.
- 417 Options:
- 418 **Disposition: April 01 TC meeting:** Use "Requester" throughout. Add "SAML Requester and
- 419 SAML Responder". Incorporated in Draft 03 of SAML 1.1 Assertions and Protocols.
- 420 Also reviewed SOAP definitions for "Requester" and "Responder" and modified as appropriate.
- 421 Incorporated in Draft 01 of SAML 1.1 Glossary

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

- 424 First reported by: Jon Westbrock, Emerson Process Management
- 425 Message: http://lists.oasis-open.org/archives/security-services/200303/msg00000.html
- 426 **Document:** Bindings and Profiles
- 427 **Description**: In step 2 of this profile, the base64 encoding of a SAML response is embedded in a
- 428 HTML form. In order to do this you must first serialize the SAML response to a sequence of
- octets, which can then be base64 encoded. What character encoding is supposed to be used to
- 430 serialize the SAML response to a sequence of octets? Lines 692-694 of the bindings document it
- 431 appears that we haven't explicitly called out the use of UTF-8. This seems to be standard
- 432 technique used, for example, in c14n canonicalization.

Options:

- 1. Explicitly call-out UTF-8 encoding
- 2. Reject based on the following reason. On reviewing the XML specification, it turns out that the issue of specifying and determining the character encoding of XML documents has been completely addressed therein. http://www.w3.org/TR/REC-xml#charencoding. My reading of this text suggests that SAML does not need to take a position on this issue and no additional text is required in the Browser/POST profile.
- 3. Adopt the following text as proposed by Scott: On line 692, replace the current sentence with this text:
- The notation B64(<response>) stands for the result of applying the Base64 Content-Transfer-Encoding to the response, as defined by RFC 1521, section 5.2, and SHOULD

444 445	consist of lines of encoded data of up to 76 characters. The first encoded line begins after the opening quote signifying the "value" attribute of the SAMLResponse form element.
446 447	The character set used to represent the encoded data is determined by the "charset" attribute of the Content-Type of the HTML document containing the form. The character
448 449	set of the XML document resulting from decoding the data is determined in the normal fashion, and defaults to UTF-8 if no character set is indicated.
450	
451 452 453	Disposition: April 08 TC meeting: Review proposal by Scott. April 22 TC meeting, adopted text by Scott as describe in option 3 above. Incorporated in Draft 02 of SAML 1.1 Bindings and Profiles.
454	3.16 PE16: Use of Qnames in <authoritykind> and</authoritykind>
455	<respondwith></respondwith>
456	First reported by: Eve Maler, Sun Microsystems
457 458	Message: http://lists.oasis-open.org/archives/security-services/200304/msg00040.html Document: Assertions and Protocols
459	Description : Near lines 716 (all line references in this message are to core 1.0) for
460 461	AuthorityKind, and 968 for RespondWith, the text gives an example of a Qname in use and unfortunately implies (rather more strongly in the latter case) that the prefix must
462	read "saml" when a natively defined construct is being referenced. But the prefix of a
463	namespaced value is never fixed, and we don't clarify that the appropriate namespace
464 465	must have been defined in the scope of the relevant element where the Qname appears.
466	It would be better to say something like this (underscores around new or
467	changed material):
468	
469	For Authority Kind: "For example, an attribute authority would be identified by
470 471	AuthorityKind="samlp:AttributeQuery", _where there is a namespace declaration in the scope of this attribute that binds the samlp: prefix to the SAML protocol namespace"
472	scope of this attribute that blinds the samp, prefix to the STAVIL protocol hamespace
473	For RespondWith: "For example, a requestor that wishes to receive assertions containing
474	only attribute statements _would_ [this was a lowercase "must"] specify
475	<pre><respondwith>saml:AttributeStatement</respondwith>, _where the prefix is</pre>
476 477	bound to the SAML assertion namespace in a namespace declaration that is in the scope of this element"
478	Options: Incorporate changes as described.
479	Disposition: Accepted during TC meeting on April 08, 2003. Incorporated in Draft 04 of
480	SAML 1.1 Assertions and Protocols.
481	3.17 PE17: Non-normative clarification of status code
482	First reported by: Eve Maler, Sun Microsystems
483	Message: http://lists.oasis-open.org/archives/security-services/200304/msg00063.html
484	Document: Bindings and profiles
485 486	Description : In reviewing the bindings doc for typographical inconsistencies in the treatment of status code stuff, I found this in Section 3.1.3.6 Error Reporting:

487 488 489 490	"In the case of a SAML processing error, the SOAP HTTP server MUST respond with "200 OK" and include a SAML-specified error description as the only child of the <soap-env:body> element."</soap-env:body>
491 492 493 494	Should we be putting Major Version etc. attributes on StatusCode along with Assertion, Request, and Response? If we did, we'd want to make them optional, with default values inherited from the nearest SAML ancestor, if any.
495	Options: Add text to clarify that a Response is sent with the StatusCode.
496 497 498	Disposition: 4/29/03 – Accepted text by Eve. Deprecated StatusCode as a top element in SOAP response. StatusCode MUST be a child of <samlp:response>. Incorporated in Draft 03 of Bindings and Profiles</samlp:response>
499	3.18 PE18: SAML Versioning
500	First reported by: Scott Cantor, Ohio State University and Internet 2
501	Message: http://lists.oasis-open.org/archives/security-services/200304/msg00000.html
502	Document: All documents
503 504	Description : The SAML specification is versioned in several, independent ways. This leads to possible confusion. We should have a clear and consistent versioning specification.
505	
506 507	Options: Specify a new SAML versioning as detailed in http://lists.oasis-open.org/archives/security-services/200304/doc00000.doc
508 509	Disposition: Accepted during TC meeting on April 15, 2003. Incorporated in Drafts 05 and 06 of SAML 1.1 Assertions and Protocols.
510	3.19 PE19: Clarification of status code for the case of no
511	assertion
512	First reported by: Rob Philpott, RSA Security
513	Message: http://www.oasis-open.org/archives/security-services/200304/msg00221.html
514	Document: SAML 1.1 Bindings and Profiles, Draft 02
515	Description : Lines 505-507 (section 4.1.1.6) of the -02 draft B&P document states:
516 517 518 519 520 521 522	"If the source site is able to find or construct the requested assertions, it responds with a <samlp:response> message with the requested assertions. Otherwise, it returns an appropriate status code, as defined within the selected SAML binding." This is not really clear and will probably be construed by the reader to mean either that a SAML error status code should be returned in a samlp:Response or that a SOAP fault error should be returned (assuming the "selected SAML binding" is SOAP over HTTPS).</samlp:response>
523	We should clarify this as follows:
524 525 526 527	"If the source site is able to find or construct the requested assertions, it responds with a <samlp:response> message with the requested assertions. Otherwise, it responds with a <samlp:response> message with no assertions and a <samlp:statuscode> element with the value Success."</samlp:statuscode></samlp:response></samlp:response>
528	Options: Make editorial change to clarify

Disposition: Adopted editorial change as suggested. Incorporated in Draft 03 of Bindings

529 530

and Profiles

531	3.20 PE20: Clarification of <confirmationdata> in Browser/POST</confirmationdata>			
532	First reported by: Rob Philpott, RSA Security			
533	Message: http://www.oasis-open.org/archives/security-services/200304/msg00225.html			
534	Document: Bindings and Profiles			
535	Description : Section 4.1.2.5 states that:			
536	The <saml:confirmationmethod> element of each assertion MUST be set to</saml:confirmationmethod>			
537 538	urn:oasis:names:tc:SAML:1.0:cm:bearer. This absence of text regarding <saml:confirmationdata> may lead to confusion.</saml:confirmationdata>			
539	We should clarify as follows:			
540 541 542 543	Every subject-based statement in the assertion(s) returned to the destination site MUST contain a <saml:subjectconfirmation> element. The <confirmationmethod> element in the <subjectconfirmation> MUST be set to urn:oasis:names:tc:SAML:1.0:cm:bearer.</subjectconfirmation></confirmationmethod></saml:subjectconfirmation>			
544 545	Additionally, section 4.1.1.6 should also be updated to reflect the same change for the Browser/Artifcat, as follows:			
546 547	Every subject-based statement in the assertion(s) returned to the destination site MUST contain a <saml:subjectconfirmation> element as follows:</saml:subjectconfirmation>			
548 549 550	 The <saml:confirmationmethod> element MUST be set to either urn:oasis:names:tc:SAML:1.0:cm:artifact-01 (deprecated) or urn:oasis:names:tc:SAML:1.0:cm:artifact (RECOMMENDED).</saml:confirmationmethod> 			
551	• The <subjectconfirmationdata> element SHOULD NOT be specified.</subjectconfirmationdata>			
552	Options: Make editorial change to clarify.			
553 554	Disposition: Editorial change incorporated in Draft 03 of Bindings and Profiles. TC approval is expected at next available opportunity.			
555	3.21 PE21: Description of the AuthenticationMethod attribute in			
556	AuthenticationQuery>			
557	First reported by: Rob Philpott, RSA Security			
558	Message: http://lists.oasis-open.org/archives/security-services/200305/msg00104.html			
559	Document: Assertions and Protocols			
560 561	Description : Draft 10 of Assertions and Protocols, lines 1114-1118 describing AuthenticationQuery states:			
562 563	"This element is of type AuthenticationQueryType , which extends SubjectQueryAbstractType with the addition of the following element:			
564	<authenticationmethod>[Optional]</authenticationmethod>			
565 566 567	A filter for possible responses. If it is present, the query made is "What assertions containing authentication statements do you have for this subject with the supplied authentication method?"			
568	Lines 1123-1125 state:			

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OPTIONAL for the complete set of all such matching assertions to be returned in the response.

If the <AuthenticationMethod> element is present in the query, at least one

<AuthenticationMethod> element in the set of returned assertions MUST match. It is

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The problem is that the schema for AuthenticationQueryType defines "AuthenticationQuery" as an XML attribute of type anyURI. It is not defined as an element.

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Options:

- 1. Make editorial change to state that <AutenticationMethod> is an attribute not an element.
- 2. Make <AuthenticationMethod> an element and allow multiple occurrences of it in <AuthenticationQuery>.

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Disposition: SSTC chose option 1 during its weekly conference call of 5/13. The SSTC concluded that this option is consistent with the usage of <AuthenticationMethod> in the rest of the specification. Change incorporated in draft 11 of Assertion and Protocols.

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3.22 PE22: Clarification of Authentication Method attribute

- 585 First reported by: Rob Philpott, RSA Security
- 586 Message: http://lists.oasis-open.org/archives/security-services/200305/msg00106.html
- 587 **Document:** Assertions and Protocols
- 588 **Description**: Draft 10 of Assertions and Protocols, section 7.1 uses the form
-

 <a
- 591 The AuthenticationMethod attribute of an <AuthenticationStatement> and the
- 592 <SubjectConfirmationMethod> element of a SAML subject perform different functions, although
- 593 both can refer to the same underlying mechanisms. An authentication statement with an
- AuthenticationMethod attribute describes an authentication act that occurred in the past. The
- 595 AuthenticationMethod attribute indicates how that authentication was done. Note that the
- authentication statement does not provide the means to perform that authentication, such as a
- 597 password, key, or certificate.
- 598 **Options:** Make editorial change.
- 599 Disposition: Based on the disposition of PE21, the SSTC approved this editorial change
- on via email exchanges. Incorporated in Draft 11.

3.23 PE23: Clarification of <Statement>, <SubjectStatement> and Nested Assertions

- 603 First reported by: John Kemp, Project Liberty
- 604 Message: http://lists.oasis-open.org/archives/security-services/200305/msg00150.html
- 605 **Document:** Assertions and Protocols
- 606 **Description**:
- 607 Lines 324-326 note that three kinds of assertion are specified by SAML. When reading the
- schema, <Statement> and <SubjectStatement> are treated as if they might appear independently
- of these three kinds of assertion, which is not in fact the case they are for extensions that
- specify additional kinds of assertion. It is recommend that this distinction be made clear in this
- 611 introductory text.
- 612 2. Line 331 states that "Assertions have a nested structure". 'Nesting' implies that one assertion
- may be contained within another, which as far as I can tell from the schema is not possible. It is
- recommended that this sentence be changed to note that an "assertion acts as a container for a
- 615 number of assertion statements" or some similar text.
- 616 **Options:** Make editorial change.

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- Disposition: During the SSTC conference call of 6/10, the co-chairs were directed to make editorial changes to the document to clarify as suggested. These changes were made to final version of core before submitting the document as OASIS standard. 617
- 618
- 619

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 Westbrock and Prateek's response to that message	
Draft-05	2003-03-31	Jahan Moreh	Added possible resolution to PE 15 per Prateek's email	
Draft-06	2003-04-01	Jahan Moreh	Modifications and dispositions based on TC meeting of April 01, 2003	
Draft-07	2003-04-07	Jahan Moreh	Added new erratum reported by Eve Maler. Added potential erratum reported by Eve Maler regarding editorial changes to make clear the use of Qname in <authoritykind> and <respondwith>. Updated Option's section of PE11 per Eve Maler's suggestion.</respondwith></authoritykind>	
Draft-08	2003-04-14	Jahan Moreh	Modifications and dispositions based on TC meeting of April 08, 2003. Added Appendix B, Summary of Dispositions.	
Draft-09	2003-04-21	Jahan Moreh	Added PE 17 and PE 18. Updated PE 15.	
Draft-10	2003-04-28	Jahan Moreh	Finalized disposition of PE4, PE9, PE13, PE15 and PE18.	
Draft-11	2003-05-02	Jahan Moreh	Added E9 and PE 19 and PE20 and their disposition. Recorded disposition of PE6 and PE17. Changed document location for public availability.	
			Changed title to make it consistent with last call working drafts.	
			Fixed hyperlinks to messages.	
Draft-12	2003-05-13	Jahan Moreh	Added PE21, PE22 and their disposition.	
Draft 13	2003-06-13	Jahan Moreh	Added PE23	
Draft 14	2003-06-30	Jahan Moreh	Recorded final disposition of PE23	
Draft 15	2003-08-19	Jahan Moreh	Added E10.	
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Appendix B. Summary of Disposition

Erratum #	Status	Document	Draft
E1	Disposed	Bindings and Profiles	01
E2	Disposed	Bindings and Profiles	01
E3	Disposed	Bindings and Profiles	01
E4	Disposed	Assertions and Protocols	02
E5	Disposed	Assertions and Protocols	02
E6	Disposed	Assertions and Protocols	02
E7	Disposed	Assertions and Protocols	04
E8	Disposed	Assertions and Protocols	03
E9	Disposed	Bindings and profiles	03
E10	Disposed	Assertions and Protocols	Final committee specs.
PE1	Disposed	Bindings and Profiles	01
PE2	Disposed; No action required		
PE3	Disposed; No action required		
PE4	Disposed	Bindings and Profiles	02
PE5	Disposed	Assertions and Protocols	02
PE6	Disposes	Bindings and Profiles	03
PE7	Disposed	Assertions and Protocols	02
PE8	Disposed	Assertions and Protocols	02
PE9	Disposed	Assertions and Protocols	06
PE10	Disposed; No action required		
PE11	Disposed	Assertions and Protocols	03
PE12	Disposed	Assertions and Protocols	03
PE13	Disposed	Assertions and Protocols	03 and 06
		Assertions and Protocols	03
PE14	Disposed	Glossary	01
PE15	Disposed	Bindings and Profiles	02
PE16	Disposed	Assertions and Protocols	04
PE17	Disposed	Bindings and Profiles	03
PE18	Disposed	Assertions and Protocols	05 and 06
PE19	Disposed	Bindings and Profiles	03
PE20	Disposed	Bindings and Profiles	03
PE21	Disposed	Assertions and Protocols	11
PE22	Disposed	Assertions and Protocols	11
PE23	Disposed	Assertions and Protocols	sstc-saml-core-1.1-cs-02

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