



Basic Metadata Aggregation Profile

Version 0.1

[Stage]

July 17th, 2010

Specification URIs:

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Technical Committee:

OASIS [official name of technical committee] TC

Chair(s):

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Related work:

This specification is related to:

- Metadata for the OASIS Security Assertion Markup Language (SAML)

Abstract:

This profile defines a basic set of processing rules when aggregating SAML Metadata from multiple sources. The profile aims at being extensible.

Status:

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1 Introduction

This profile describes the processing rules of a Metadata Aggregator; a component that fetches *SAML V.2.0 Metadata* [SAML2Meta] from multiple input sources over HTTP, merges the metadata and publishes the result set of metadata.

The processing rules of aggregating metadata, is split into these sections:

1. Fetching metadata documents
2. Processing metadata documents
3. Processing each entity
4. Preparing output document

1.1 Terminology

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC2119].

1.2 Normative References

- [RFC2119] S. Bradner, *Key words for use in RFCs to Indicate Requirement Levels*, <http://www.ietf.org/rfc/rfc2119.txt>, IETF RFC 2119, March 1997.
- [SAML2Meta] OASIS, *Metadata for the OASIS Security Assertion Markup Language (SAML) V2.0*
<http://docs.oasis-open.org/security/saml/v2.0/saml-metadata-2.0-os.pdf>
- [MDAttrib] OASIS, *SAML V2.0 Metadata Extension for Entity Attributes Version 1.0*
<http://docs.oasis-open.org/security/saml/Post2.0/sstc-metadata-attr.html>
- [MetaReg] OASIS, *SAML Metadata Documentation and Registration Information Extensions, version 1.0*
https://spaces.internet2.edu/download/attachments/9731/saml_md_dri_01.odt
- [MDX] IETF Internet-Draft, *Metadata Query Protocol*
<http://tools.ietf.org/pdf/draft-lajoie-md-query-00.pdf>

1.3 Non-Normative References

- [Reference] [Full reference citation]

34

35 2 Aggregator Configuration Statement

36 A deployment of an aggregator, MUST in order to satisfy this profile requirements make
37 available an *aggregator configuration statement* document to all consumers of the
38 output metadata.

39 The configuration statement MUST include at least the following information about this
40 deployment:

- 41 • Supported aggregation profiles: this profile, as well as any number of
42 complimentary profiles.
- 43 • List of supported metadata access protocols
- 44 • Public key or certificate of the aggregator, used for signing the output
45 document(s)
- 46 • Aggregator fetch interval
- 47 • Maximum validity period of input entity

48 Complimentary profiles MAY define additional information that is required to be stated in
49 the aggregator configuration statement.

50 **3 Registration of Input Sources and Trust**
51 **Management**

52 For each input source, from where the aggregator fetches metadata, the aggregator
53 MUST register at least the following information associated with each input source:

- 54 • PublisherID (adopting terminology from [MetaReg])
- 55 • A list of one or more equivalent HTTP endpoints, from where a full metadata
56 document can be retrieved. Multiple endpoints MAY be provided for improved
57 reliability. The list is not prioritized, and all endpoints are equivalent.
- 58 • For each endpoint as mentioned above, one or more public key / certificate
59 MUST be provided. This public key / certificate represents the signature on the
60 top-level `md:EntitiesDescriptor` of the published metadata document. Multiple
61 public keys / certificates MAY be provided in order for a smooth rollover.

62 4 Processing

63 4.1 Fetching metadata from input sources

64 The aggregator fetches metadata from each input source at a configured interval. The
65 retrieved metadata document will be processed for some basic verification, described in
66 this section. If any of these verification steps fails, further processing **MUST** be stopped,
67 and aggregator will move on to processing the next input source. The aggregator
68 **SHOULD** implement re-tries depending on the nature of the failure; in example the
69 aggregator may wait and retry downloading the document if a network error occurred.

70 In the case of a network or access problem, the aggregator **SHOULD** iterate through the
71 list of endpoints, if multiple are configured, as described in section 3.

72 The aggregator **MUST** perform the following verification steps:

- 73 1. The provided document is well formed XML.
- 74 2. The root element is an `md:EntitiesDescriptor`.
- 75 3. The document **MUST** be signed at the root element. The signing key / certificate
76 **MUST** correspond to the configured key / certificate for this particular input
77 source, as described in section 3.

78 The metadata document **MUST** be schema-valid, validating the following XML
79 namespaces:

- 80 • `urn:oasis:names:tc:SAML:2.0:metadata`
 - 81 • `urn:oasis:names:tc:SAML:2.0:assertion`
 - 82 • `http://www.w3.org/2000/09/xmldsig#`
 - 83 • `http://www.w3.org/2001/04/xmlenc#`
- 84 4. Complimentary profiles referred to in the *Aggregator Configuration Statement*
85 may add further verification steps under the header "Processing Metadata
86 Document", including in example additional XML namespaces to validate.

87 **NOTE:** `RoleDescriptors` with a namespace unknown to the aggregator,
88 not mentioned in this profile or any supported complimentary profiles,
89 **SHOULD** be treated as if the element was not there in the validation step.
90 Without access to the schemas, the aggregator will not know if the
91 element is inheriting from the abstract `RoleDescriptor` element or not, and
92 **SHOULD** consider it as it was valid.

93 Failure at this point **MUST NOT** invalidate already cached entities from the same input
94 source.

95 If verification succeeded, the aggregator **MUST** remove cached entities, originating from
96 the same input source, but is not present in the new metadata document.

97 The metadata document **MAY** include any level of nested `md:EntitiesDescriptor`
98 elements. No semantic meaning should be associated with the hierarchy in how
99 `md:EntityDescriptor` elements are located, beyond what is defined in [SAMLMeta].

100 Further processing will be performed for each `md:EntitiesDescriptor`.

101 4.2 Processing each entity

102 The aggregator will process each entity individually as specified in the following
103 sections.

104 Important: content that is not associated with any explicit process instruction in this
105 section, the aggregator MUST pass through unmodified.

106 4.2.1 Entity Acceptance Processing

107 An entity rejected at this point MUST NOT invalidate an already cached version of the
108 same entity.

109 An aggregator MUST provide a mechanism to protect Entities from being taken over by
110 another input source. This section describes the default processing rules protecting
111 against Entity take-over. A complimentary profile MAY provide an alternative measures
112 of protection, such as a controlled prefixed entityID namespace.

113 The aggregator SHOULD store an association table mapping an EntityID with the
114 PublisherID of the input source where it was first discovered. This association SHOULD
115 be stored for at least the validity period of the contained metadata.

116 If the aggregator receives an `md:EntityDescriptor` with an EntityID registered at
117 another Input source, the aggregator MUST reject this `md:EntityDescriptor`.

118 A complimentary profile MAY provide additional entity acceptance processing rules
119 under a section named "Entity Acceptance Processing".

120 4.2.2 Removing information

121 If the `md:EntityDescription` element is signed, this signature MUST be removed. The
122 reason is that it will not be valid, due to the modifications necessary in the following
123 processing.

124 The aggregator MUST ensure that there will be no collisions in the XML ID attributes of
125 all of its entities. The RECOMMENDED approach is to remove the XML ID attributes at
126 the `md:EntityDescription`.

127 4.2.3 Calculating entity expiration time

128 The expiration time of an entity is calculated to be the first of these times:

- 129 • The `validUntil` attribute of the `md:EntityDescriptor` element
- 130 • The `validUntil` attribute of each of the surrounding `md:EntitiesDescriptor`
131 elements
- 132 • The maximum validity period configured for the aggregator
- 133 • The `cacheDuration` attribute of the `md:EntityDescriptor` element + time the
134 metadata was fetched
- 135 • The `cacheDuration` attribute of each of the surrounding `md:EntitiesDescriptor`
136 elements + time the metadata was fetched

137 The `validUntil` attribute of the `md:EntityDescriptor` MUST be set to the new
138 calculated expiration time (replace the current attribute value if present).

139 The aggregator MAY remove the `cacheDuration` attribute of the `md:EntityDescriptor` or
140 leave it unmodified.

141 Note: expiration information on `RoleDescriptor` elements or other elements inside an
142 `md:EntityDescriptor` SHOULD not be considered by the aggregator but passed
143 through.

144 4.3 Processing Extensions

145 The Basic Aggregator Profile does not define any special processing of any particular
146 Extension namespace, but any complimentary profile MAY define a set of Extension
147 namespaces associated with processing rules under the section header “Processing
148 Extensions”.

149 The aggregator MUST express a default extension namespace processing rule in the
150 aggregator configuration statement. It may select one of the following default policies:

151 **PASSTHRU**

152 Extension is passed through without further processing.

153 **REMOVE**

154 Extension is removed from metadata.

155 4.4 Processing the RoleDescriptors of an Entity

156 The Basic Aggregator Profile does not define any special processing of any particular
157 RoleDescriptor, but any complimentary profile MAY define a set of namespaced
158 RoleDescriptor elements associated with processing rules under the section header
159 “Processing the RoleDescriptor of an Entity”.

160 The aggregator SHOULD enforce the PASSTHRU policy for all the RoleDescriptor,
161 unless explicitly overridden in a complimentary profile.

162 The aggregator MUST express a default RoleDescriptor processing policy in its
163 *Aggregator Configuration Statement*. It may select one of the following default policies:

164 **PASSTHRU**

165 RoleDescriptor is passed through without further processing.

166 **REMOVE**

167 RoleDescriptor is removed from metadata.

168 4.5 Cache Entity

169 After Entity is processed and accepted, the processed Entity MUST be cached by the
170 aggregator for the validity period of the entity.

171 Each cached Entity instance MUST be independent of other Entities, even those
172 originating from the same input source.

173 4.6 Preparing the output document

174 The aggregator MUST examine the expiration time of each entity, and if an entity is
175 expired, the aggregator MUST not include the entity in the output.

176 It is RECOMMENDED that the aggregator adds non-destructive line-breaks and
177 indentation of easier human inspection – before signing.

- 178 The aggregator SHOULD perform non-destructive XML namespace declaration
179 optimization.
- 180 The aggregator SHOULD prepare an output metadata document including all entities in
181 a flat structure (only one level of `md:EntitiesDescriptor`, the root note). The document
182 MUST be provided over HTTP and the document MUST be signed at the root note with
183 the public key / certificate indicated in the configuration statement.
- 184 This profile does not dictate any particular access protocol for the output metadata, but
185 RECOMMENDS taking the [MDX] protocol into consideration.

186 **5 Extending this profile**

187 A profile that extends the basic aggregator profile **MUST** have a name, and an
188 introduction that explains the purpose of the profile. Next it **MAY** include any of these
189 sections:

- 190 5. Aggregator configuration statement
- 191 6. Processing Metadata Document
- 192 7. Processing Metadata Document
- 193 8. Entity Acceptance Processing
- 194 9. Processing Extensions
- 195 10. Processing the RoleDescriptor of an Entity

196 Description of processing rules in these sections are handled are described in the
197 appropriate location in this profile.

198 **# Conformance**

199 The last numbered section in the specification must be the Conformance section.

200 Conformance Statements/Clauses go here.

201 **A. Acknowledgements**

202 The following individuals have participated in the creation of this specification and are
203 gratefully acknowledged:

204 **Participants:**

205 Leif Johansson, NorduNet
206 Lukas Hämmerle, SWITCH
207 Thomas Legenhagger, SWITCH
208 Miroslav Milinovic, SRCE
209 Dubravko Penezic, SRCE
210 Dubravko Voncina, SRCE
211 Mehdi Hached, RENATER

212 **B. XSLT describing behavior of Basic Aggregator**

213 Most of the behavior described in this document MAY be represented in the format of
214 XSLT.

215 The XSLT is yet to be written.

216 C. Example Aggregator Configuration Statement

217 Supported Profiles

- 218 • Basic Aggregation Profile
- 219 • eduGAIN Aggregator Profile
- 220 • Aggregator Extension for Documentation and Registration Information
- 221 • Aggregator Extension for Entity Attributes

222 Metadata Access Protocols

- 223 • Basic HTTP access:
224 <http://aggregator.edugain.edu/all.xml>
- 225 • MDX:
226 <http://aggregator.edugain.edu/mdx/>

227 Signing certificate

```
228 -----BEGIN CERTIFICATE-----  
229 MIICgTCCAeoCCQCbOl rWdX7FTANBgkqhkiG9w0BAQUFADCBhDELMAkGA1UEBhMC  
230 Tk8xGDAWBgNVBAgTD0FuZHJlYXNAdW5pbmV0dC5ubzAeFw0wNzA2MTUxMjAxMzVaFw0wNzA4  
231 VQKKEwdVtk1ORVRUMRgwFgYDVQDEw9mZWlkZS5lcxhbmccubm8xITAfBgkqhkiG  
232 9w0BCQEWEmFuZHJlYXNAdW5pbmV0dC5ubzAeFw0wNzA2MTUxMjAxMzVaFw0wNzA4  
233 MTQxMjAxMzVaMIGEMQswCQYDVQGEwJOTzEYMBYGA1UECBMPQW5kcmVhcyBTb2xi  
234 ZXJnMQwwCgYDVQHEwNGB28xEDAObGNVBAoTB1VOSU5FVFBQxGDAWBgNVBAMTD2Zl  
235 aWRlLmVybGFuZy5ubzEhMB8GCSqGSIb3DQEJARYSYW5kcmVhcyBTb2xiZXR0Lm5v  
236 MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQDibvhr7P516x/S3BqKxupQe0LO  
237 NolIupiBOesCO3SHbDr13+q9TbfnfmE04rNuMcPsIxBl61TddpIesLCn7c8aPHIS  
238 K0tPlAeTZSnb8QAU7arJzq3+PbrP5uW3TcfCGPtKTythOge/OlJbo078dVhXQ14d  
239 1EDwXJW1rRXuUt4C8QIDAQABMA0GCSqGSIb3DQEBBQUAA4GBACDVfp86HObqY+e8  
240 BUoWQ9+VMQx1ASDohBjwOsg2WYkUqRXF+dLfcUH9dWR63CtZIKFDbStNomPnQz7n  
241 bK+onygwBspVEbnHuUihZq3ZUdmumQqCw4Uvs/1Uvq3orOo/WJVhTyvLgFVK2Qar  
242 Q4/67OzfHd7R+POBxhophSMv1ZOo  
243 -----END CERTIFICATE-----
```

244 Aggregator fetch interval

245 24 hours

246 Maximum metadata validity period

247 5 days

248 Default Extension Processing Policy

249 REMOVE

250 Default RoleDescriptor Processing Policy

251 REMOVE

252 D. Aggregator Extension for Documentation and 253 Registration Information

254 This profile extends the Basic Aggregator Profile. It assumes that both the input sources
255 and the aggregator support the SAML Metadata Documentation and Registration
256 Information Extensions [MDReg].

257 D.1 Processing Metadata Document

258 When validating the document, the aggregator MUST in addition consider the following
259 additional namespace:

- 260 • urn:oasis:names:tc:SAML:2.0:metadata:dri

261 All `md:EntitiesDescriptor` elements containing an `md:Extension` with a
262 `dri:DocumentInfo` or a `dri:RegistrationInfo` MUST apply the `dri:DocumentInfo` and
263 `dri:RegistrationInfo` elements to all containing `md:EntityDescriptor`, to be
264 processed in the “Entity Acceptance Processing” step.

265 D.2 Entity Acceptance Processing

266 If multiple `dri:DocumentInfo` or `dri:RegistrationInfo` elements are associated with the
267 entity, values from the inner elements MUST take precedence.

268 If a cached version of the Entity contains a `dri:DocumentInfo/SerialNumber` the
269 aggregator MUST not accept a new version of the Entity unless the new Entity contains
270 a `dri:DocumentInfo/SerialNumber` being the same or a higher integer value.

271 If a cached version of the Entity contains a `dri:DocumentInfo/CreationInstant` the
272 aggregator MUST not accept a new version of the Entity unless the new Entity contains
273 a `dri:DocumentInfo/CreationInstant` being the same or a more recent timestamp.

274 D.3 Processing Extensions

275 If multiple `dri:DocumentInfo` or `dri:RegistrationInfo` elements are associated with
276 the entity, values from the inner elements MUST take precedence. The aggregator
277 MUST merge multiple `dri:DocumentInfo` and `dri:RegistrationInfo` elements into one
278 of each. Each value (sub element with content) MUST be considered independent from
279 the others.

280 D.4 Processing RoleDescriptors

281 NA

282 E. Aggregator Extension for Entity Attributes

283 This profile extends the Basic Aggregator Profile adding support and processing rules
284 for SAML V2.0 Metadata Extension for Entity Attributes [MDAttrib].

285 E.1 Processing Metadata Document

286 When validation the document, the aggregator MUST in addition consider the following
287 additional namespace:

- 288 • `urn:oasis:names:tc:SAML:metadata:attribute`

289 Extension elements in this namespace, associated with any `md:EntitiesDescriptor`
290 MUST be ignored.

291 E.2 Entity Acceptance Processing

292 NA

293 E.3 Processing Extensions

294 If an Entity contains an `mdata:EntityAttribute` this element SHOULD be sent through
295 the aggregator unmodified.

296 No further processing of the `mdata:EntityAttribute` content is defined in this profile
297 extension.

298 E.4 Processing RoleDescriptors

299 NA

300 **F. eduGAIN Aggregator Profile**

301 This profile extends the Basic Aggregator Profile.

302 NOTE: This appendix is only temporarily part of this document. Will
303 eventually be made into a separate document. It is convenient to have this
304 inside, until the basic profile is somewhat more mature.

305 **F.1 Processing Metadata Document**

306 The metadata document SHOULD be schema valid against the XML namespaces in the
307 Basic Aggregator Profile, but in addition the following XML namespaces:

308 ...

309 **F.2 Entity Acceptance Processing**

310 The entity MUST include the required information as specified in eduGAIN Metadata
311 Profile.

312 **F.3 Processing Extensions**

313 ...

314 **F.4 Processing RoleDescriptors**

315 The aggregator MUST REJECT all RoleDescriptors except IdPSSODescriptor and
316 SPSSODescriptor.

317

G. Revision History

318

Revision	Date	Editor	Changes Made
0.1	July 17 th 2010	Andreas Åkre Solberg	Initial draft

319

320