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OASIS Service Provisioning Markup Language (SPML) v2 - DSML v2 Profile

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Abstract:

33

This specification defines usage of DSML v2 as a data model (profile) for SPML v2.

34

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82 **1. Introduction (non-normative)**

83 **1.1. Concepts**

84 SPML Version 2 (SPMLv2) defines a core protocol **[SPMLv2]** over which different data models can
85 be used to define the actual provisioning data. The combination of a data model with the SPML
86 core specification is referred to as a profile. The use of SPML requires that a specific profile is
87 used, although the choice of which profile is used to negotiated out-of-band by the participating
88 parties.

89 This document describes the use of the DSML protocol as a data model for SPML based
90 provisioning. This profile is optional.

91 **1.1.1. DSML Protocol**

92 The DSML v2 protocol **[DSMLV2]** was designed to perform LDAP type operations using web
93 services. The DSML V2 protocol defines synchronous request/response semantics and a data
94 model based on attribute/value pairs. DSML V2 does not define an attribute/value pairs schema
95 mechanism.

96 **1.1.2. Schema**

97 The DSML v2 standard does not define a schema mechanism. A schema mechanism is defined as
98 part of this binding.

99 **1.2. Terminology**

100 Within this document:

- 101 - The term “requestor” always refers to a [Requesting Authority \(RA\)](#).
- 102 - The term “provider” always refers to a [Provisioning Service Provider \(PSP\)](#).
- 103 - The term “target” always refers to a [Provisioning Service Target \(PST\)](#).
- 104 - The term “object” (unless otherwise qualified) refers to a [Provisioning Service Object \(PSO\)](#).
- 105 - The term “client” (unless otherwise qualified) refers to a [Requesting Authority \(RA\)](#).
- 106 - The term “server” (unless otherwise qualified) refers to a [Provisioning Service Provider \(PSP\)](#).

107 **2. Notation**

108 This specification contains schema conforming to W3C XML Schema and normative text to
109 describe the syntax and semantics of XML-encoded policy statements.

110 The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD",
 111 "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this specification are to be
 112 interpreted as described in IETF RFC 2119 [RFC2119]

113 *"they MUST only be used where it is actually required for interoperation or to limit*
 114 *behavior which has potential for causing harm (e.g., limiting retransmissions)"*

115 These keywords are thus capitalized when used to unambiguously specify requirements over
 116 protocol and application features and behavior that affect the interoperability and security of
 117 implementations. When these words are not capitalized, they are meant in their natural-language
 118 sense.

119 This specification uses the following typographical conventions in text:

Format	Description	Indicates
attributeName	monospace font with <i>first letter lower-cased</i>	The name of an XML <i>attribute</i> .
SPMLElementName	monospace font with <i>first letter capitalized</i>	The name of an XML <i>element</i> that is defined as part of SPMLv2.
ns:ForeignElementName	monospace font with <i>namespace prefix</i>	The name of an XML element that is <i>defined by another specification</i> .
<SPMLElement>	monospace font <i>surrounded by <></i>	<i>An instance of an XML element</i> that is defined as part of SPMLv2.
<ns:ForeignElement>	monospace font with <i>namespace prefix</i> <i>surrounded by <></i>	An instance of an XML element that is <i>defined by another specification</i> .

120 Terms in ***italic bold-face*** are intended to have the meaning defined in the Glossary.

121 Listings of SPML schemas appear like this.

122

123 Example code listings appear like this.

124 Conventional XML namespace prefixes are used throughout the listings in this specification to
 125 stand for their respective namespaces as follows, whether or not a namespace declaration is
 126 present in the example:

127 - The prefix `dsml` : stands for the Directory Services Markup Language namespace [DSML].

128 - The prefix `saml` : stands for the SAML assertion namespace [SAML].

129 - The prefix `ds` : stands for the W3C XML Signature namespace [DS].

130 - The prefix `xsd` : stands for the W3C XML Schema namespace [XS].

131 3. Overview (non-normative)

132 3.1. DSML PSOs

133 A PSO is represented in this binding by a set of attribute/values pairs that is associated with a
 134 target-unique identifier. All PSOs are categorized by one or more object classes. The object class
 135 for a given PSO is denoted by an attribute named with the reserved name of "objectclass".

136 3.1.1. PSO Identifier

137 The PSO Identifier may be an X.509 Distinguished Name (DN), or any identifier that is unique for
138 the target..

```
139 <spml:pso xmlns:spml="urn:oasis:names:tc:SPML:2:0">  
140   <spml:psoId ID="CN=John Doe,OU=accounting,DC=acme.com" targetID="acme.com"/>  
141 </spml:pso>
```

142 3.1.2. PSO Data

143 The PSO Data element contains dsml:attr elements, as defined in [DSML]. Additional data may be
144 included via the Open Content Model.

```
145 <spml:pso xmlns:spml="urn:oasis:names:tc:SPML:2:0" >  
146   <spml:data>  
147     <attr name="cn" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
148       <value>John Doe</value>  
149     </attr>  
150     <attr name="uid">  
151       <value>jdoe</value>  
152     </attr>  
153     <attr name="email" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
154       <value>jdoe@acme.com</value>  
155     </attr>  
156     <attr name="objectclass" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
157       <value>user</value>  
158     </attr>  
159   </spml:data>  
160 </spml:pso>
```

161 3.2. Schema

162 The schema defines the allowed attributes and object classes.

```
163 <spml:schema xmlns:spml="urn:oasis:names:tc:SPML:2:0"  
164   xmlns:spml:dsml="urn:oasis:names:tc:SPML:2:0:DSML">  
165   <spml:dsml:schema>  
166     <spml:dsml:attributeDefinition name="cn" description="Common Name" />  
167     <spml:dsml:attributeDefinition name="uid" description="User ID" />  
168     <spml:dsml:attributeDefinition name="email" description="Email Address" />  
169     <spml:dsml:objectClassDefinition name="person">  
170       <spml:dsml:memberAttributes>  
171         <spml:dsml:memberAttributes name="cn" required="true" />  
172         <spml:dsml:memberAttributes name="uid"/>  
173         <spml:dsml:memberAttributes name="email"/>  
174       </spml:dsml:memberAttributes>  
175     </spml:dsml:objectClassDefinition>  
176   </spml:dsml:schema>  
177 </spml:schema>
```

178 3.3. Core Operations

179 3.3.1. Add Request

180 The Add Request creates PSOs. The Add Request must contain a <data> element that contains
181 DSML v2 <attr> elements that define the new PSO. The Add Request may also pass a PSO

182 Identifier (<psoid> element), a container PSO ID (<containerID> element), or a target ID
183 (<targetID> element). If a PSO identifier is not defined in the Add Request, the new PSO Identifier
184 must be returned in the Add Response.

```
185 <spml:addRequest xmlns:spml="urn:oasis:names:tc:SPML:2:0">  
186   <spml:containerID ID="OU=accounting,DC=acme.com" targetID="acme.com" />  
187   <spml:data>  
188     <attr name="CN" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
189       <value> John Doe </value>  
190     </attr>  
191     <attr name="uid" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
192       <value>jdoe</value>  
193     </attr>  
194     <attr name="objectclass" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
195       <value>user</value>  
196     </attr>  
197   </spml:data>  
198 </spml:addRequest>
```

199 **3.3.2. Add Response**

200 The Add Response message will contain the new PSO ID (unless it was specified in the Add
201 Request). If the creation of the new PSO resulted in attributes being adding or modified in the new
202 PSO, the entire PSO Data should be returned in the response.

```
203 <spml:addResponse status="spml:success" xmlns:spml="urn:oasis:names:tc:SPML:2:0">  
204   <spml:psoid ID="CN=John Doe,OU=accounting,DC=acme.com" targetID="acme.com" />  
205   <spml:data>  
206     <attr name="CN" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
207       <value> John Doe </value>  
208     </attr>  
209     <attr name="uid" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
210       <value>jdoe</value>  
211     </attr>  
212     <attr name="email" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
213       <value>jdoe@acme.com</value>  
214     </attr>  
215     <attr name="objectclass" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
216       <value>user</value>  
217     </attr>  
218   </spml:data>  
219 </spml:addResponse>
```

220 **3.3.3. Modify Request**

221 The Modify Request modifies the specified PSO. The Modify Request must always contain the
222 PSO Identifier.

```
223 <spml:modifyRequest xmlns:spml="urn:oasis:names:tc:SPML:2:0">  
224   <spml:psoid ID="CN=John Doe,OU=accounting,DC=acme.com" targetID="acme.com" />  
225   <spml:modification>  
226     <modification name="CN" operation="replace"  
227     xmlns="urn:oasis:names:tc:DSML:2:0:core">  
228       <value>Jane Doe</value>  
229     </modification>  
230   </spml:modification>  
231 </spml:modifyRequest >
```

232 **3.3.4. Modify Response**

233 If the Modify Request causes the PSO ID to change, then the Modify Response must contain the
234 new PSO ID.

```
235 <spml:modifyResponse status="spml:success"  
236 xmlns:spml="urn:oasis:names:tc:SPML:2:0">  
237   <spml:psId ID="CN=Jane Doe,OU=accounting,DC=acme.com" targetID="acme.com" />  
238 </spml:modifyResponse>
```

239 **3.3.5. Delete Request**

240 The Delete Request deletes a specified PSO.

```
241 <spml:deleteRequest xmlns:spml="urn:oasis:names:tc:SPML:2:0">  
242   <spml:psId ID="CN=John Doe,OU=accounting,DC=acme.com" targetID="acme.com" />  
243 </spml:deleteRequest >
```

244

245 **3.3.6. Lookup Request**

246 The Lookup Request is used to retrieve the data for a specified PSO.

```
247 <spml:lookupRequest xmlns:spml="urn:oasis:names:tc:SPML:2:0">  
248   <spml:psId ID="CN=John Doe,OU=accounting,DC=acme.com" targetID="acme.com" />  
249 </spml:lookupRequest>
```

250 **3.3.7. Lookup Response**

251 The Lookup Response contains the retrieved PSO data.

```
252 <spml:lookupResponse status="spml:success"  
253 xmlns:spml="urn:oasis:names:tc:SPML:2:0">  
254   <spml:psId ID="CN=John Doe,OU=accounting,DC=acme.com" targetID="acme.com" />  
255   <spml:data>  
256     <attr name="CN" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
257       <value> John Doe </value>  
258     </attr>  
259     <attr name="uid" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
260       <value>jdoe</value>  
261     </attr>  
262     <attr name="email" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
263       <value>jdoe@acme.com</value>  
264     </attr>  
265     <attr name="objectclass" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
266       <value>user</value>  
267     </attr>  
268   </spml:data>  
269 </spml:lookupResponse>
```

270 **3.4. Search Operations**

271 If the Search Capability is supported, the DSML filters and attribute declarations should be used to
272 scope the results of the search.

273 3.4.1. Search Request

274 The search request can specify DSML filters and attribute declarations, as defined in [DSML].

275

```
276 <spmlsearch:searchRequest xmlns:spml="urn:oasis:names:tc:SPML:2:0"  
277 xmlns:spmlsearch="urn:oasis:names:tc:SPML:2:0:search">  
278   <spmlsearch:query scope = "spmlsearch:oneLevel">  
279     <spml:basePSOID ID="CN=John Doe,OU=accounting,DC=acme.com"  
280     targetID="acme.com" />  
281     <filter xmlns="urn:oasis:names:tc:DSML:2:0:core">  
282       <substrings name = "cn">  
283         <initial>John</initial>  
284       </substrings>  
285     </filter>  
286     <attributes xmlns="urn:oasis:names:tc:DSML:2:0:core">  
287       <attribute name = "cn" />  
288       <attribute name = "email" />  
289     </attributes>  
290   </spmlsearch:query>  
291 </spmlsearch:searchRequest>
```

292

293 3.4.2. Search Response

294

```
295 <spmlsearch:searchResponse status="spml:success"  
296 xmlns:spml="urn:oasis:names:tc:SPML:2:0"  
297 xmlns:spmlsearch="urn:oasis:names:tc:SPML:2:0:search">  
298   <spml:pso>  
299     <spml:psoId ID="CN=John Doe,OU=accounting,DC=acme.com"  
300     targetID="acme.com"/>  
301     <spml:data>  
302       <attr name="cn" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
303         <value>John Doe</value>  
304       </attr>  
305       <attr name="email" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
306         <value>jdoe@acme.com</value>  
307       </attr>  
308     </spml:data>  
309   </spml:pso>  
310   <spml:pso>  
311     <spml:psoId ID="CN=John Smith,OU=accounting,DC=acme.com"  
312     targetID="acme.com"/>  
313     <spml:data>  
314       <attr name="cn" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
315         <value>John Smith</value>  
316       </attr>  
317       <attr name="email" xmlns="urn:oasis:names:tc:DSML:2:0:core">  
318         <value>jsmith@acme.com</value>  
319       </attr>  
320     </spml:data>  
321   </spml:pso>  
322 </spmlsearch:searchResponse>
```

323 4. Specification (Normative)

324 4.1. Namespaces

325 The DSMLv2 Profile uses the DSML v2 namespace which is defined as:

326 `urn:oasis:names:tc:DSML:2:0:core`

327 The specification uses the prefix `dsml:` to refer to this namespace.

328 The DSMLv2 Profile defines some elements that are specific to the profile. The namespace for the
329 profile itself is defined as:

330 `urn:oasis:names:tc:SPML:2:0:DSML`

331 The specification uses the prefix `spml:dsml:` to refer to this namespace.

332 4.2. Core Capability

333 4.2.1. Element `<spml:data>`

334 The `<spml:data>` element MUST contain zero or many `<dsml:attr>` elements.

335 4.2.2. Element `<spml:modification>`

336 The `<spml:modification>` element MUST contain zero or many `<dsml:modification>` elements. The
337 “modificationType” on the `<spml:modification>` MUST NOT be specified since the
338 `<dsml:modification>` defines the modification type.

339 4.2.3. Element `<spml:schema>`

340 If the schema is defined in-band, the `<spml:schema>` element MUST contain one or more
341 `<spml:dsml:schema>` elements. If the schema is defined out-of-band, the “ref” attribute on the
342 `<spml:schema>` element MUST be set to the URN of the referenced schema.

343 If only a subset of the object classes defined in the schema are supported for the target, then the
344 `<spml:schema>` element MUST include `<spml:supportedSchemaEntity>`. If no
345 `<spml:supportedSchemaEntity>` are defined in the `<spml:schema>` element, then it is assumed all
346 object classes are supported by the target.

347 4.2.4. Element `<supportedSchemaEntity>`

348 The “entityName” attribute on the `<spml:supportedSchemaEntity>` element MUST refer only to
349 object classes defined in the referenced schema. All attributes on the referenced object classes are
350 assumed to be supported.

351 **4.3. Search Capability**

352 **4.3.1. Element <spmlsearch:query>**

353 The <spmlsearch:query> element MAY contain <dsml:filter> and <dsml:attributes> to filter the
354 results of the search.

355 **4.4. DSML Profile Schema**

356 **4.4.1. Element <spmldsml:schema>**

357 The <spmldsml:schema> element defines the DSML schema for the target. The
358 <spmldsml:schema> element contains zero or more <spmldsml:objectClassDefinition> elements
359 and zero or more <spmldsml:attributeDefinition> elements.

360 **4.4.2. Element <spmldsml:objectClassDefinition>**

361 The <spmldsml:objectClassDefinition> element defines DSML v2 object classes supported by the
362 target. The <spmldsml:objectClassDefinition> element contains zero or more
363 <spmldsml:memberAttributes> elements which define the attributes that may be included on
364 objects of the specified object class. The <spmldsml:objectClassDefinition> element contains zero
365 or more <spmldsml:superiorClasses> which define the superior object classes to the specified
366 object class.

367 **4.4.3. Element <spmldsml:attributeDefinition>**

368 The <spmldsml:attributeDefinition> element defines DSML v2 attributes supported by the target.
369 The <spmldsml:attributeDefinition> element has the following attributes:

- 370 • description – textual description of the attribute
- 371 • multivalued – true if the attribute is multivalued, false if it is single valued
- 372 • type – attribute syntax
- 373 • name – attribute name (e.g. “cn”)

374 .

375 Appendix A. References

376

- 377 **[AES]** National Institute of Standards and Technology (NIST), FIPS-197:
378 Advanced Encryption Standard,
379 <http://csrc.nist.gov/publications/fips/fips197/fips-197.pdf>, National
380 Institute of Standards and Technology (NIST)
- 381 **[ARCHIVE-1]** OASIS Provisioning Services Technical Committee, email archive,
382 [http://www.oasis-](http://www.oasis-open.org/apps/org/workgroup/provision/email/archives/index.html)
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401 [http://www.oasis-](http://www.oasis-open.org/apps/org/workgroup/provision/download.php/1816/draft-pstc-bindings-03.doc)
402 [open.org/apps/org/workgroup/provision/download.php/1816/draft-](http://www.oasis-open.org/apps/org/workgroup/provision/download.php/1816/draft-pstc-bindings-03.doc)
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- 404 **[SPML-REQ]** OASIS Provisioning Services Technical Committee, *Requirements*,
405 [http://www.oasis-](http://www.oasis-open.org/apps/org/workgroup/provision/download.php/2277/draft-pstc-requirements-01.doc)
406 [open.org/apps/org/workgroup/provision/download.php/2277/draft-](http://www.oasis-open.org/apps/org/workgroup/provision/download.php/2277/draft-pstc-requirements-01.doc)
407 [pstc-requirements-01.doc](http://www.oasis-open.org/apps/org/workgroup/provision/download.php/2277/draft-pstc-requirements-01.doc), OASIS PS-TC
- 408 **[SPML-UC]** OASIS Provisioning Services Technical Committee, *SPML V1.0 Use*
409 *Cases*, [http://www.oasis-](http://www.oasis-open.org/apps/org/workgroup/provision/download.php/988/draft-spml-use-cases-05.doc)
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417 PS-TC

447 **Appendix B. Acknowledgments**

448 The following individuals were voting members of the Provisioning Services committee at the time
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