

² OASIS Service Provisioning Markup

Language (SPML) v2 - XSD Profile

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| 32 | Abstract: |
| 33 | This specification defines usage of XML and XSD as a data model (profile) for SPML v2. |

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- 35 This is an OASIS Standard document produced by the Provisioning Services Technical Committee. It was approved by the OASIS membership on 1 April 2006. 36
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| 41 | Table | e of contents | |
|----|------------------------------|---|----|
| 42 | 1. Intro | oduction (non-normative) | 4 |
| 43 | 1.1. | Concepts | 4 |
| 44 | 1.2. | Terminology | 4 |
| 45 | 2. Nota | ation | 4 |
| 46 | 3. Ove | rview (non-normative) | 5 |
| 47 | 3.1. | XML PSOs | 5 |
| 48 | 3.1.1 | 1. PSO Identifier | 5 |
| 49 | 3.1.2 | 2. PSO Data | 5 |
| 50 | 3.2. | Schema | 6 |
| 51 | 3.3. | Core Operations | 6 |
| 52 | 3.3.1 | 1. Add Request | 6 |
| 53 | 3.3.2 | 2. Add Response | 6 |
| 54 | 3.3.3 | 3. Modify Request | 7 |
| 55 | 3.3.4 | 4. Delete Request | 7 |
| 56 | 3.3.5 | 5. Lookup Request | 8 |
| 57 | 3.3.6 | 6. Lookup Response | 8 |
| 58 | 3.4. | Search Operations | 8 |
| 59 | 3.4.1 | 1. Search Request | 8 |
| 60 | 3.4.2 | 2. Search Response | 9 |
| 61 | 4. Specification (Normative) | | 9 |
| 62 | 4.1. | XPath Support | 9 |
| 63 | 4.2. | Core Capability | 10 |
| 64 | 4.2.1 | 1. Element <spml:data></spml:data> | 10 |
| 65 | 4.2.2 | 2. Element <spml:modification></spml:modification> | 10 |
| 66 | 4.2.3 | 3. Element <spml:schema></spml:schema> | 11 |
| 67 | 4.2.4 | Element <supportedschemaentity></supportedschemaentity> | 11 |
| 68 | 4.3. | Search Capability | 11 |
| 69 | 4.3.1 | Element <spmlsearch:query></spmlsearch:query> | 11 |
| 70 | 4.3.2 | 2. Element <spmlsearch:select></spmlsearch:select> | 12 |
| 71 | Appendix | A. References | 13 |
| 72 | Appendix | B. Acknowledgments | 15 |
| 73 | Appendix | C. Notices | 16 |

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

76 **1.1. Concepts**

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

This document describes the use of the XML and XSD as a data model for SPML based provisioning. This binding is optional.

84 1.2. Terminology

- 85 Within this document:
- The term "requestor" always refers to a Requesting Authority (RA).
- 87 The term "provider" always refers to a Provisioning Service Provider (PSP).
- The term "target" always refers to a Provisioning Service Target (PST).
- The term "object" (unless otherwise qualified) refers to a Provisioning Service Object (PSO).
- 90 The term "client" (unless otherwise qualified) refers to a Requesting Authority (RA).
- 91 The term "server" (unless otherwise qualified) refers to a Provisioning Service Provider (PSP).

92 **2. Notation**

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

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

98 "they MUST only be used where it is actually required for interoperation or to limit 99 behavior which has potential for causing harm (e.g., limiting retransmissions)"

100 These keywords are thus capitalized when used to unambiguously specify requirements over

101 protocol and application features and behavior that affect the interoperability and security of

implementations. When these words are not capitalized, they are meant in their natural-languagesense.

104 This specification uses the following typographical conventions in text:

| Format | Description | Indicates |
|-----------------------|--|---|
| attributeName | monospace font with first letter lower-cased | The name of an XML attribute. |
| 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 namespace prefix | The name of an XML element that is <i>defined by another specification.</i> |

| <spmlelement></spmlelement> | monospace font surrounded by <> | An instance of an XML element that is defined as part of SPMLv2. |
|---|--|---|
| <ns:foreignelement></ns:foreignelement> | monospace font <i>with namespace prefix</i> surrounded by <> | An instance of an XML element that is <i>defined by another specification</i> . |

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

```
106 Listings of SPML schemas appear like this.
```

```
108 Example code listings appear like this.
```

107

- 109 Conventional XML namespace prefixes are used throughout the listings in this specification to
- 110 stand for their respective namespaces as follows, whether or not a namespace declaration is 111 present in the example:
- 112 The prefix saml: stands for the SAML assertion namespace [SAML].
- 113 The prefix ds: stands for the W3C XML Signature namespace [DS].
- The prefix xsd: stands for the W3C XML Schema namespace [XS].

115 **3. Overview (non-normative)**

116 **3.1. XML PSOs**

117 A PSO is represented in this binding by an XML structure. Thus structure should be defined by the 118 XSD that is returned as the schema for the containing target.

119 3.1.1. PSO Identifier

120 The PSO Identifier may be any opaque identifier for the PSO, such as a GUID, URN, or XPath 121 expression. If an XPath expression is used, it must resolve to a single PSO.

122 For instance if an opaque GUID is used for the PSO ID:

```
123 <spml:pso xmlns:spml="urn:oasis:names:tc:SPML:2:0">
124 <spml:psoID ID="2244" targetID="target2"/>
125 </spml:pso>
```

126 If for instance an XPath is used for the PSO ID:

130 **3.1.2. PSO Data**

The PSO Data element contains a root XML element that conforms to the XSD schema defined bythe target.

```
133 <spml:pso xmlns:spml="urn:oasis:names:tc:SPML:2:0">
134 <spml:data>
135 <user>
136 <cn>John Doe</cn>
137 <uid>jdoe</uid>
138 <email>jdoe@acme.com</email>
```

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| 139 | <phone></phone> |
|-----|---------------------------|
| 140 | <home>555-2323</home> |
| 141 | <work>555-6767x321</work> |
| 142 | |
| 143 | |
| 144 | |
| 145 | |

146 **3.2. Schema**

The schema defines the allowed attributes and elements. For the XSD Profile, the PSO schema is
 defined using XSD. The XSD can be defined by inclusion in the spml:schema element, or by
 reference to an external or well known XSD schema URI.

150 For instance if the XSD is defined by inclusion:

```
151 <spml:schema xmlns:spml="urn:oasis:names:tc:SPML:2:0">
152 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" />
153 </spml:schema>
```

154 If the XSD is defined by reference:

155 <spml:schema ref="http://www.acme.com/schemas/user.xsd"
156 xmlns:spml="urn:oasis:names:tc:SPML:2:0" />

157 3.3. Core Operations

158 3.3.1. Add Request

159 The Add Request creates PSOs. The Add Request must contain a <data> element that contains an 160 XML element that defines the new PSO. The Add Request may also pass a PSO Identifier

161 (<psold> element). If a PSO identifier is not defined in the Add Request, the new PSO Identifier 162 must be returned in the Add Response.

```
163
      <spml:addRequest targetID="target2" xmlns:spml="urn:oasis:names:tc:SPML:2:0">
164
         <spml:data>
165
            <user>
166
               <cn>John Doe</cn>
167
               <uid>jdoe</uid>
168
               <email>jdoe@acme.com</email>
169
               <phone>
170
                 <home>555-2323</home>
171
                 <work>555-6767x321</work>
172
               </phone>
173
            </user>
174
         </spml:data>
175
      </spml:addRequest>
```

176 **3.3.2.** Add Response

The Add Response would contain the status. If the request is successful, the response couldinclude the new PSO ID and data. For instance:

```
179 <spml:addResponse status="spml:success" xmlns:spml="urn:oasis:names:tc:SPML:2:0"
180 >
181 <spml:psoID ID="2244" targetID="target2"/>
182 <spml:data>
183 <user>
```

| 184 185 | <cn>John Doe</cn> <uid>jdoe</uid> |
|------------|---|
| 186 | <pre><email>jdoe@acme.com</email></pre> |
| 187 | <phone></phone> |
| 188 | <home>555-2323</home> |
| 189 | <work>555-6767x321</work> |
| 190 | |
| 191 | |
| 192 | |
| 193 | |

194 **3.3.3. Modify Request**

The Modify Request modifies PSOs. The Modify Request always contains the PSO Identifier. The modification type can be either add, replace, or delete. If the modification is not being made to the root XML element of the PSO data, the request would specify a selector XPath that uniquely identifies the sub-element being modified.

199 For instance to add a sub-element to the root element of the PSO data:

```
200
      <spml:modifyRequest xmlns:spml="urn:oasis:names:tc:SPML:2:0" >
201
         <spml:psoID ID="2244" targetID="target2"/>
202
         <spml:modification modificationMode = "spml:add">
203
            <spml:component path="./phone" namespaceURI="http://www.w3.org/TR/xpath20"/>
204
            <spml:data>
205
              <mobile>555-1212</mobile>
206
            </spml:data>
207
         </spml:modification>
208
      </spml:modifyRequest>
```

209 To replace a sub-element:

```
210
      <spml:modifyRequest xmlns:spml="urn:oasis:names:tc:SPML:2:0" >
211
         <spml:psoID ID="2244" targetID="target2"/>
212
         <spml:modification modificationMode="spml:replace" >
213
            <spml:component path="./phone" namespaceURI="http://www.w3.org/TR/xpath20"/>
214
            <spml:data>
215
              <phone>
216
                 <mobile>555-1212</mobile>
217
                 <home>555-2323</home>
218
                 <work>555-6767x321</work>
219
              </phone>
220
            </spml:data>
221
         </spml:modification>
222
      </spml:modifyRequest>
```

223 To delete a sub-element:

```
224 <spml:modifyRequest xmlns:spml="urn:oasis:names:tc:SPML:2:0" >
225 <spml:psoID ID="2244" targetID="target2"/>
226 <spml:modification modificationMode = "spml:delete" >
227 <spml:component path="./phone" namespaceURI="http://www.w3.org/TR/xpath20"/>
228 </spml:modification>
229 </spml:modifyRequest>
```

230 **3.3.4.** Delete Request

231 The Delete Request deletes PSOs. The Delete Request always contains the PSO Identifier.

```
232 <spml:deleteRequest xmlns:spml="urn:oasis:names:tc:SPML:2:0" >
233 <spml:psoID ID="2244" targetID="target2"/>
```

234 </spml:deleteRequest >

235 3.3.5. Lookup Request

The Lookup Request returns the data for an identified PSO. The Lookup Request always containsthe PSO Identifier.

```
238 <spml:lookupRequest returnData = "spml:everything"
239 xmlns:spml="urn:oasis:names:tc:SPML:2:0" >
240 <spml:psoID ID="2244" targetID="target2"/>
241 </spml:lookupRequest>
```

242 3.3.6. Lookup Response

243 The Lookup Response (if successful) will return the data for the identified PSO.

```
244
      <spml:lookupResponse status="spml:success"</pre>
245
      xmlns:spml="urn:oasis:names:tc:SPML:2:0" >
246
         <spml:psoID ID="2244" targetID="target2"/>
247
         <spml:data>
248
            <user>
249
              <cn>John Doe</cn>
250
               <uid>jdoe</uid>
251
              <email>jdoe@acme.com</email>
252
               <phone>
253
                  <mobile>555-1212</mobile>
254
                  <home>555-2323</home>
255
                  <work>555-6767x321</work>
256
               </phone>
257
            </user>
258
         </spml:data>
259
      </spml:lookupResponse>
```

260 **3.4. Search Operations**

261 **3.4.1. Search Request**

```
262 The search request can specify a search base and an XPath selection statement.
```

```
263 <spmlsearch:searchRequest xmlns:spml="urn:oasis:names:tc:SPML:2:0"
264 xmlns:spmlsearch="urn:oasis:names:tc:SPML:2:0:search">
265 <spmlsearch:query scope = "spmlsearch:oneLevel" targetID="target2">
266 <spml:select>/user</spml:select>
267 </spmlsearch:query>
268 </spmlsearch:searchRequest>
```

The select clause for the search request treats each target as a document root that (directly or indirectly) contains all other objects as nodes. So, for example,

- "/Person" would select every Person object that the target directly contains.
- "//Person" would select every Person object on a target,
 no matter which container was the Person object's parent.
- "/Group" would select every Group object that the target directly contains.
- "//Group" would select every Group object on a target,
 no matter which container was the Group object's parent.

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277 3.4.2. Search Response

The search response, if successful, would contain all of the PSOs that satisfied the search criteria.For instance:

| 280 | <pre><spml:searchresponse <="" pre="" status="spml:success"></spml:searchresponse></pre> | | | |
|-----|--|--|--|--|
| 281 | <pre>xmlns:spml="urn:oasis:names:tc:SPML:2:0"></pre> | | | |
| 282 | <spml:pso></spml:pso> | | | |
| 283 | <pre><spml:psoid id="2244" targetid="target2"></spml:psoid></pre> | | | |
| 284 | <pre><spml:data></spml:data></pre> | | | |
| 285 | <user></user> | | | |
| 286 | <pre><usel> <cn>John Doe</cn></usel></pre> | | | |
| 287 | | | | |
| | <uid>jdoe</uid> | | | |
| 288 | <pre><email>jdoe@acme.com</email></pre> | | | |
| 289 | | | | |
| 290 | | | | |
| 291 | | | | |
| 292 | <spml:pso></spml:pso> | | | |
| 293 | <pre><spml:psoid id="2245" targetid="target2"></spml:psoid></pre> | | | |
| 294 | <pre><spml:data></spml:data></pre> | | | |
| 295 | <user></user> | | | |
| 296 | <pre><cn>Jane Smith</cn></pre> | | | |
| 297 | <uid>jsmith</uid> | | | |
| 298 | 5 | | | |
| | <pre><email>jsmith@acme.com</email></pre> | | | |
| 299 | | | | |
| 300 | | | | |
| 301 | | | | |
| 302 | | | | |

4. Specification (Normative)

304 **4.1. XPath Support**

A provider MUST support the abbreviated syntax for XPath expressions. Put differently, a provider MUST support any XPath location path that does not include an explicit axis specifier.

A provider MAY support explicitly specified axes. A provider MAY support arbitrary XPath
 expressions. However, a requestor that deals with arbitrary providers should assume only that each
 provider supports location paths in the abbreviated syntax format.

Abbreviated Syntax. An XPath expression that uses only the abbreviated syntax contains no
 explicit axis specifier. Each step assumes the "child" axis by default. Any axis other than the "child"
 axis is specified by one of the following abbreviations:

- 313 "@" is short for "attribute:"
- 314 "//" is short for "/descendant-or-self::node()/"
- 315 "." is short for self::node()
- 316 ".." is short for parent:node()
- 317 **Each target is a document root**. A provider MUST treat each target as a document root that (directly or indirectly) contains all other objects as nodes.

319 4.2. Core Capability

320 4.2.1. Element <spml:data>

The *<spml:data>* element MAY contain any number of XML elements. The elements MUST conform to the XSD specified in the *spml:schema* for that target.

323 4.2.2. Element <spml:modification>

- The *<spml:modification>* element MAY contain any number of XML elements. The
 <spml:modification> element MUST define the "modificationMode" attribute to be one of "add",
 "replace", or "delete".
- An *<spml:modification>* element MAY contain at most one *<component>* element. If the modification is on a sub-element of the PSO data, the *component* element MUST be set to the XPath state that uniquely identifies the sub-element withen the PSO data root element. If the modification is on the PSO data root element, the *component* element MAY be omitted.
- 331 An <spml:modification> element MAY contain at most one <data> element. If the
- 332 <spml:modification> contains a <component> element, then the <spml:modification> MUST contain
 333 a <data> element.
- 334 Modification component. An *<spml:component>* element MUST have a "namespaceURI"
 335 attribute and MUST have a "path" attribute.
- The value of the "namespaceURI" attribute MUST specify the XML namespace of a query language. The value of the "path" attribute MUST be an expression that is valid in the query language that "namespaceURI" specifies. (For example, if a requestor uses XPath 2.0 as the query language for the "path" attribute, the value of the "namespaceURI" attribute MUST be "http://www.w3.org/TR/xpath20".)
- The value of the "path" attribute MUST specify an attribute or a sub-element (or an attribute of a sub-element) of the object that the provider is to modify. The specified attribute or element MUST be valid (according to the schema of the target) for the schema entity of which the object to be modified is an instance.
- An *<spml:component>* element MAY include *<spml:namespacePrefixMap>* elements that defines the namespace prefixes that are used in the XPath path. Each "prefix" attribute on the *<spml:namespacePrefixMap>* element MUST exactly match one the namespace prefixes used in the Xpath.
- 349 Modification data. A requestor must specify as the content of the <data> sub-element of a
 350 <modification> any value that is to be added to, replaced within, or deleted from the element or
 351 attribute that the <component> element specifies.
- In the XML Schema profile, a requestor that specifies a <component> element within a
 <modification> element with "modificationMode=' add'" or (within a <modification>
 element with) "modificationMode=' modify' " MUST specify a value that is to replace the
 element or attribute that the <component> element specifies.
- 356If the <component> element (XPath expression) specifies an XML element, then the value357(that is the content of the <data> element) MUST be one or more XML elements that are358valid (according to the schema of the target) for the element that the <component>359element specifies.

- If the <component> element (XPath expression) specifies an XML attribute, then the value
 MUST be valid (according to the schema of the target) for the attribute that the
 <component> element specifies.
- In the XML Schema profile, a requestor that specifies a <component> element within a
 <modification> element with "modificationMode=' delete'" MUST NOT specify a
 value. The (XPath expression that is the value of the) <component> element MUST specify the
 set of elements or (MUST specify) the attribute that the provider should delete.
- If the <component> element (XPath expression) specifies a set of XML elements, then
 each XML element that the <component> element specifies must be optional (i.e.,
 "minOccurs='0'") according to the schema of the target for the object to be modified.
- If the <component> element (XPath expression) specifies an XML attribute, then the
 specified attribute MUST be *optional* (according to the schema of the target) for the object
 to be modified.

373 4.2.3. Element <spml:schema>

If the schema is included as content of an *<spml:schema>* element, the *<spml:schema>* element
 MUST contain at least one *<xsd:schema>* element. If the schema is not included as content of an
 <spml:schema> element, the "ref" attribute on the *<spml:schema>* element MUST be set to the

377 URN of the referenced schema. If the schema is included as content of an <spml:schema>

378 element, a requestor should ignore any "ref" attribute on the <spml:schema> element.

379 If a provider supports only a subset of the top-level elements that are defined in the schema for a 380 target, then the *<spml:schema>* element MUST contain at least one

381 <spml:supportedSchemaEntity> element. Each <spml:supportedSchemaEntity> element specifies
 382 a top-level schema element that the provider supports for that target.

383 If the *<spml:schema>* element contains no *<spml:supportedSchemaEntity>* element, then the
 384 requestor may assume that the provider supports for that target all of the top-level elements that
 385 the schema of the target defines.

386 4.2.4. Element <supportedSchemaEntity>

The "entityName" attribute on the *<spml:supportedSchemaEntity>* element MUST refer to a toplevel element that is defined in the schema for a target. The provider MUST support every subelement and attribute of the referenced schema element.

390 **4.3. Search Capability**

391 4.3.1. Element <spmlsearch:query>

The *<spmlsearch:query>* element MAY contain an *<spml:select>* element. If an *<spml:select>* element is defined, it MUST be set to a valid XPath statement for the XSD schema defined by the target. The "XPath Support" section specifies general requirements for XPath support.

395 4.3.2. Element <spmlsearch:select>

396 An *spmlsearch:select>* element MUST have a "namespaceURI" attribute and MUST have a "path" attribute.

- 398 The value of the "namespaceURI" attribute MUST specify the XML namespace of a query
- 399 language. The value of the "path" attribute MUST be an expression that is valid in the query
- 400 language that "namespaceURI" specifies. (For example, if a requestor uses XPath 2.0 as the
- 401 query language for the "path" attribute, the value of the "namespaceURI" attribute MUST be 402 "http://www.w3.org/TR/xpath20".)
- 403 The value of the "path" attribute MUST specify a *filter* that selects objects based on:
- The presence (or absence) of a specific element or attribute
- The presence (or absence) of a specific value in the content of an element
- 406 or (the presence of absence of a specific value) in the value of an attribute
- 407 An *<spmlsearch:select>* element MAY include *<spml:namespacePrefixMap>* elements that defines
- 408 the namespace prefixes that are used in the XPath path. Each "prefix" attribute on the
- 409 <*spml:namespacePrefixMap>* element MUST exactly match one the namespace prefixes used in
 410 the Xpath.

412 Appendix A. References

413

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| 481 482 483 | | |
| | | |

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