



Liberty ID-SIS Personal Profile Service Specification

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Abstract:

The Liberty ID-SIS Personal Profile (ID-SIS-PP) defines a web service. It offers profile information regarding a Principal. ID-SIS-PP is an instance of data oriented identity web service. ID-SIS-PP is characterized by the ability to query and update attribute data and incorporates from other specifications mechanisms for access control and conveying data validation information and usage directives. Readers of this document should be familiar with SOAP, SAML and XML.

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39 1. Introduction

40 The ID-SIS Personal Profile is a Liberty identity service that supports identity information regarding Principals them-
 41 selves. This document normatively describes the ID-SIS Personal Profile service. For rationale and guidance please
 42 see the companion document Liberty Identity Personal and Employee Profile Service Implementation Guidelines
 43 [\[LibertyIDSISProfilesGuide\]](#). This document is prescriptive, having precedence over any guidelines or XML schema
 44 descriptions. Any published errata is hereby incorporated to this document by reference and as such is normative.

45 1.1. Notational Conventions

46 The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT",
 47 "RECOMMENDED", "MAY", and "OPTIONAL" in this specification are to be interpreted as described in IETF RFC
 48 2119. These keywords are thus capitalized when used to unambiguously specify requirements over protocol and
 49 application features and behavior that affect the interoperability and security of implementations. When these words
 50 are not capitalized, they are meant in their natural-language sense.

51 1.2. ID-SIS-PP Based on DST and WSF

52 The ID-SIS-PP service is an instance of the Data Services Template ([\[LibertyDST\]](#)) specification. All stipulations of
 53 [\[LibertyDST\]](#) are hereby incorporated unless expressly waived or modified in this document.

54 The Liberty architectural framework specifications ensure that a service properly represents the Principal or that the
 55 Principal has consented to sharing the data. A service that consults an ID-SIS-PP service MUST adhere to the interface
 56 defined in this specification to request information about a Principal. Further, a requesting entity MUST ensure
 57 security and privacy through the adherence to the Liberty [\[LibertyProtSchema\]](#) and [\[LibertyBindProf\]](#) specifications.
 58 A requester MAY, and frequently will, use the [\[LibertySOAPBinding\]](#) specification for information interchange with
 59 a Liberty Personal Profile Service. A Liberty Personal Profile Service MUST adhere to the [\[LibertyProtSchema\]](#)
 60 and [\[LibertyBindProf\]](#) specifications in its communications with the requestor and other Liberty-enabled entities.
 61 Additionally a Personal Profile Service MUST use the [\[LibertyInteract\]](#) and [\[LibertyDisco\]](#) specifications for identity-
 62 related interactions with other Liberty-enabled services. Overviews of the application of these specifications are
 63 available in [\[LibertyIDFFOverview\]](#) and [\[LibertyIDWSFOverview\]](#)

64 Table 1. DST Support Level

Parameter	Value
ServiceType	urn:liberty:id-sis-pp:2003-08
Discovery Options	See section 2.1
Data Schema	See section 5
SelectType Element	See section 2.2
Query Language	XPATH subset (see secs 2.2 and 2.3), MAY support full XPATH
Multiple Query	MAY
Multiple QueryItem	MUST
Support Modification	MAY
Multiple Modify	MAY
Multiple Modification	MAY
Extension in Query	MUST NOT
Extension in Modify	MUST NOT
Multiple elem uniqueness	Use id XML attribute for AddressCard and MsgContact elements. Use lang and script XML attributes for localizable elements.
Support changedSince and notChangedSince	MAY
Support includeCommonAttributes	MUST
Data Extension Supported	MAY, using Extension element

65 1.3. Conformance

66 A **deployment** is an instance of an **implementation**. This specification defines an interface to an ID-SIS-PP service
67 to which an *implementation* and a subsequent **deployment** MUST conform. For an AP implementation to conform to
68 this specification (ID-SIS-PP) it MUST adhere to all mandatory aspects of the specification.

69 A conforming ID-SIS-PP implementation MAY not support some optional ID-SIS-PP containers, elements or some
70 features; this may be referred to as a "minimally conforming implementation". Such an implementation may be labeled
71 as an "ID-SIS-PP implementation" provided that publicly available documentation about the implementation discloses
72 the parts of the schema and the features not supported. All other features and schema components may be assumed
73 to be supported. A service that does not support the complete schema SHOULD only register the discovery option
74 keywords that it supports.

75 An implementation that supports all of the schema and features specified in this document MAY be labeled as a "full
76 ID-SIS-PP implementation". An implementation that is deficient in any feature or part of the schema MUST NOT be
77 labeled as a "full ID-SIS-PP implementation". A "full ID-SIS-PP implementation" deployment may administratively
78 restrict the schema and the features.

79 A deployment that supports the complete schema and all features specified in this document MAY be labeled as a "full
80 ID-SIS-PP deployment" or a "full ID-SIS-PP service". A full ID-SIS-PP deployment or service MUST support all of
81 the schema and features for all Principals wishing to use them, with the exception of those schema components and
82 features excluded to a Principal as the result of a policy decision.

83 A deployment that only supports some subset of ID-SIS-PP may be labeled as an "ID-SIS-PP deployment" or "ID-
84 SIS-PP service" provided that the deployment publicly discloses the subset that it supports.

85 1.4. Namespaces

86 The namespace for the ID-SIS-PP service is designated by the URI

87
88 urn:liberty:id-sis-pp:2003-08
89

90 This namespace is abbreviated as "pp: " in this document. If the namespace has been omitted at any place in this
91 document, "pp: " is to be considered to be the default namespace. The namespace URI is also used as *ServiceType*
92 designator.

93 For enumerator URNs the version number is not usually used. As enumerator URNs are separate from XML this does
94 not have an adverse effect.

95 Table 2. Referenced XML Namespaces

Prefix	URI	Description
ds:	http://www.w3.org/2000/09/xmldsig	XML DSIG [RFC3275] (for <i>SignKey</i> type)
xml:	http://www.w3.org/TR/REC-xml	XML Definition [XML] (for <i>xml:lang</i>)
xs:	http://www.w3.org/2002/XMLSchema	XML Schema Definition [Schema1]

96 1.5. Extension and Namespace Reservation

97 There are six methods for accomplishing extensions:

98 1. by adding more enumerators to existing attributes

99 2. by adding new attributes to existing containers

- 100 3. by creating new containers
- 101 4. by creating new discovery option keywords
- 102 5. by extending the supported subset of XPATH expressions
- 103 6. by schema extension
- 104 ID-SIS-PP elements that have enumerated values use URIs as values ("values" may be referred to as "enumerators").
- 105 Each element's description details the authority for adopting new official enumeration values. See [[LibertyReg](#)] for
- 106 more information.
- 107 All containers and elements defined in the ID-SIS-PP schema have an `Extension` element which permits arbitrary
- 108 schema extension. An implementation `MAY` support schema extension, but is not required to do so. If an
- 109 implementation does support schema extension then in `MAY` register the corresponding discovery option keyword
- 110 `urn:liberty:dst:can:extend`.

111 **2. Discovery and Queries**

112 **2.1. Discovery Option Keywords**

113 ID-SIS-PP defines a number of discovery keywords to be included as `Option` elements in discovery registrations and
114 queries, see [[LibertyDisco](#)]. Some keywords express the availability of data; other keywords express the ability to
115 update data. An attribute provider **MAY** advertise the ability to update data even if it currently does not have a given
116 data item populated for the Principal.

117 **2.1.1. Data Availability Discovery Option Keywords**

118 The keywords that express data availability extract selected components from the profile as if an `XPATH` expression
119 were applied. An implementation is not required to use `XPATH` if the results are equivalent. Presence of the keyword
120 implies that the corresponding data can be obtained if queried. However, the data may not be available due to
121 permissions, or race conditions between data removal and updates to the discovery service.

122

Table 3. Data Availability Discovery Option Keywords

Keyword	Equivalent XPATHs	Meaning
urn:liberty:id-sis-pp	/pp:PP	Has some ID-SIS-PP data
urn:liberty:id-sis-pp:domicile	/pp:PP/pp:AddressCard [pp:AddrType="urn:liberty:id-sis-pp:addrType:domicile"]	Has some address card data corresponding to the domicile
urn:liberty:id-sis-pp:home	/pp:PP/pp:AddressCard [pp:AddrType="urn:liberty:id-sis-pp:addrType:home"]	Has some address card data corresponding to the home address
urn:liberty:id-sis-pp:work	/pp:PP/pp:AddressCard [pp:AddrType="urn:liberty:id-sis-pp:addrType:work"], /pp:PP/pp:MsgContact [pp:MsgType="urn:liberty:id-sis-pp:msgType:work"]	Has some address card or messaging contact data corresponding to the office address
urn:liberty:id-sis-pp:personal	/pp:PP/pp:MsgContact [pp:MsgType="urn:liberty:id-sis-pp:msgType:personal"]	Has some messaging contact data corresponding to personal contact
urn:liberty:id-sis-pp:mobile	/pp:PP/pp:MsgContact [pp:MsgType="urn:liberty:id-sis-pp:msgType:mobile"]	Has some messaging contact data for mobile contact
urn:liberty:id-sis-pp:vacation	/pp:PP/pp:MsgContact [pp:MsgType="urn:liberty:id-sis-pp:msgType:vacation"], /pp:PP/pp:AddressCard [pp:AddrType="urn:liberty:id-sis-pp:addrType:vacation"]	Has some messaging contact or address data for vacation contact
urn:liberty:id-sis-pp:address	/pp:PP/pp:AddressCard	Has some address card data
urn:liberty:id-sis-pp:cn	/pp:PP/pp:CommonName	Has some common name data
urn:liberty:id-sis-pp:informalName	/pp:PP/pp:InformalName, /pp:PP/pp: LInformalName	Has informal name
urn:liberty:id-sis-pp:legal	/pp:PP/pp:LegalIdentity	Has some legal identity data
urn:liberty:id-sis-pp:employment	/pp:PP/pp:EmploymentIdentity	Has some employment identity data
urn:liberty:id-sis-pp:facade	/pp:PP/pp:Facade	Has some facade data
urn:liberty:id-sis-pp:keys	/pp:PP/pp:SignKey, /pp:PP/pp:EncryptKey	Has either or both keys
urn:liberty:id-sis-pp:demographics	/pp:PP/pp:Demographics	Has some demographics data
urn:liberty:id-sis-pp:emergency	/pp:PP/pp: EmergencyContact, /pp:PP/pp:AddressCard [pp:AddrType="urn:liberty:id-sis-pp:addrType:emergency"]	Has some emergency contact data

123 An attribute provider MUST NOT register a data availability discovery option keyword if it is *probable* that the data
 124 will not be available. For example if an AP does not yet have the data, it MUST NOT register the keyword with an
 125 intent of gathering the data by the time it is requested or with the intent of gathering the data when requested via the
 126 Interaction Service protocol [[LibertyInteract](#)]. An attribute provider SHOULD NOT register a keyword if the Principal
 127 has set permissions on the data such that it can not be released under any plausible circumstances.

128 **2.1.2. Data Update Discovery Option Keywords**

129 The data update discovery option keywords express the willingness and ability of the attribute provider to store some
130 data corresponding to the given XPATH expression. These keywords do not imply that the AP currently has any data
131 regarding the containers referenced by the keyword.

132 Table 4. Data Update Discovery Option Keywords

Keyword	Equivalent XPATHs	Meaning
urn:liberty:id-sis-pp:can	/pp:PP	Can store some ID-SIS-PP data
urn:liberty:id-sis-pp:can:domicile	/pp:PP/pp:AddressCard [pp:AddrType="urn:liberty:id-sis-pp:addrType:domicile"]	Can store some address card data corresponding to the domicile
urn:liberty:id-sis-pp:can:home	/pp:PP/pp:AddressCard [pp:AddrType="urn:liberty:id-sis-pp:addrType:home"]	Can store some address card data corresponding to the home address
urn:liberty:id-sis-pp:can:work	/pp:PP/pp:AddressCard [pp:AddrType="urn:liberty:id-sis-pp:addrType:work"], /pp:PP/pp:MsgContact [pp:MsgType="urn:liberty:id-sis-pp:msgType:work"]	Can store some address card or messaging contact data corresponding to the office address
urn:liberty:id-sis-pp:can:personal	/pp:PP/pp:MsgContact [pp:MsgType="urn:liberty:id-sis-pp:msgType:personal"]	Can store some messaging contact data corresponding to personal contact
urn:liberty:id-sis-pp:can:mobile	/pp:PP/pp:MsgContact [pp:MsgType="urn:liberty:id-sis-pp:msgType:mobile"]	Can store some messaging contact data for mobile contact
urn:liberty:id-sis-pp:can:vacation	/pp:PP/pp:MsgContact [pp:MsgType="urn:liberty:id-sis-pp:msgType:vacation"], /pp:PP/pp:AddressCard [pp:AddrType="urn:liberty:id-sis-pp:msgType:vacation"]	Can store some messaging contact or address data for vacation contact
urn:liberty:id-sis-pp:can:address	/pp:PP/pp:AddressCard	Can store some address card data
urn:liberty:id-sis-pp:can:cn	/pp:PP/pp:CommonName	Can store some common name data
urn:liberty:id-sis-pp:can:informalName	/pp:PP/pp:InformalName, /pp:PP/pp:LInformalName	Can store informal name
urn:liberty:id-sis-pp:can:legal	/pp:PP/pp:LegalIdentity	Can store some legal identity data
urn:liberty:id-sis-pp:can:employment	/pp:PP/pp:EmploymentIdentity	Can store some employment identity data
urn:liberty:id-sis-pp:can:facade	/pp:PP/pp:Facade	Can store some facade data
urn:liberty:id-sis-pp:can:keys	/pp:PP/pp:SignKey, /pp:PP/pp:EncryptKey	Can store either or both keys
urn:liberty:id-sis-pp:can:demographics	/pp:PP/pp:Demographics	Can store some demographics data
urn:liberty:id-sis-pp:can:emergency	/pp:PP/pp:pp:EmergencyContact	Can store some emergency data

133 An implementation MUST NOT register a data update discovery option keyword unless some Modify request
134 regarding the data referenced by the keyword can plausibly succeed. For example, if an AP is read only, it MUST

135 NOT register any data update discovery option keywords. Similarly, if the underlying database is incapable of storing
136 the data, then the keyword MUST NOT be advertised.

137 An implementation that registers a data update discovery option keyword SHOULD be capable of accepting any
138 Modify request (subject to permissions) regarding that category of data, and SHOULD support all elements specified
139 in ID-SIS-PP schema for that category.

140 An implementation MAY choose to support a read-only service. Such an implementation MUST NOT register any
141 data update discovery option keywords.

142 2.2. Supported XPATH Expressions for Queries

143 The [LibertyDST] specifies a Query element that potentially contains several QueryItem elements, which in turn
144 each contain a Select element. [LibertyDST] does not define the contents of the Select element, SelectType.
145 ID-SIS-PP defines SelectType as follows:

```
146  
147  
148 <xs:simpleType name="SelectType">  
149   <xs:restriction base="xs:string"/>  
150 </xs:simpleType>  
151
```

152 The Select string holds an XPATH expression. An ID-SIS-PP implementation MAY support full XPATH expressions
153 [XPATH] as a Select expression. If it does support full XPATH expressions, it MAY advertise the discovery option
154 keyword urn:liberty:dst:fullXPath. Conforming implementations of the ID-SIS-PP specification MUST
155 support at a minimum the following the XPATH expressions as Select expressions:

156 1. slash-separated path to any depth. The path is always anchored at the document root and may not contain wild
157 cards or empty nodes. ID-SIS-PP may be extended; the the current complete set of all possible slashed paths is
158 as follows:

```
159  
160  
161 /pp:PP  
162 /pp:PP/pp:InformalName  
163 /pp:PP/pp:LInformalName  
164 /pp:PP/pp:CommonName  
165 /pp:PP/pp:CommonName/pp:CN  
166 /pp:PP/pp:CommonName/pp:LCN  
167 /pp:PP/pp:CommonName/pp:AltCN  
168 /pp:PP/pp:CommonName/pp:LAltCN  
169 /pp:PP/pp:CommonName/pp:AnalyzedName  
170 /pp:PP/pp:CommonName/pp:AnalyzedName/pp:PersonalTitle  
171 /pp:PP/pp:CommonName/pp:AnalyzedName/pp:LPersonalTitle  
172 /pp:PP/pp:CommonName/pp:AnalyzedName/pp:FN  
173 /pp:PP/pp:CommonName/pp:AnalyzedName/pp:LFN  
174 /pp:PP/pp:CommonName/pp:AnalyzedName/pp:SN  
175 /pp:PP/pp:CommonName/pp:AnalyzedName/pp:LSN  
176 /pp:PP/pp:CommonName/pp:AnalyzedName/pp:MN  
177 /pp:PP/pp:CommonName/pp:AnalyzedName/pp:LMN  
178 /pp:PP/pp:LegalIdentity  
179 /pp:PP/pp:LegalIdentity/pp:LegalName  
180 /pp:PP/pp:LegalIdentity/pp:LLegalName  
181 /pp:PP/pp:LegalIdentity/pp:AnalyzedName  
182 /pp:PP/pp:LegalIdentity/pp:AnalyzedName/pp:PersonalTitle  
183 /pp:PP/pp:LegalIdentity/pp:AnalyzedName/pp:LPersonalTitle  
184 /pp:PP/pp:LegalIdentity/pp:AnalyzedName/pp:FN  
185 /pp:PP/pp:LegalIdentity/pp:AnalyzedName/pp:LFN  
186 /pp:PP/pp:LegalIdentity/pp:AnalyzedName/pp:SN  
187 /pp:PP/pp:LegalIdentity/pp:AnalyzedName/pp:LSN  
188 /pp:PP/pp:LegalIdentity/pp:AnalyzedName/pp:MN
```

189 /pp:PP/pp:LegalIdentity/pp:AnalyzedName/pp:LMN
190 /pp:PP/pp:LegalIdentity/pp:VAT
191 /pp:PP/pp:LegalIdentity/pp:VAT/pp:IDValue
192 /pp:PP/pp:LegalIdentity/pp:VAT/pp:IDType
193 /pp:PP/pp:LegalIdentity/pp:AltID
194 /pp:PP/pp:LegalIdentity/pp:AltID/pp:IDValue
195 /pp:PP/pp:LegalIdentity/pp:AltID/pp:IDType
196 /pp:PP/pp:LegalIdentity/pp:DOB
197 /pp:PP/pp:LegalIdentity/pp:Gender
198 /pp:PP/pp:LegalIdentity/pp:MaritalStatus
199 /pp:PP/pp:EmploymentIdentity
200 /pp:PP/pp:EmploymentIdentity/pp:JobTitle
201 /pp:PP/pp:EmploymentIdentity/pp:LJobTitle
202 /pp:PP/pp:EmploymentIdentity/pp:O
203 /pp:PP/pp:EmploymentIdentity/pp:LO
204 /pp:PP/pp:EmploymentIdentity/pp:AltO
205 /pp:PP/pp:EmploymentIdentity/pp:AltLO
206 /pp:PP/pp:AddressCard
207 /pp:PP/pp:AddressCard/pp:AddrType
208 /pp:PP/pp:AddressCard/pp:Address
209 /pp:PP/pp:AddressCard/pp:Address/pp:PostalAddress
210 /pp:PP/pp:AddressCard/pp:Address/pp:LPostalAddress
211 /pp:PP/pp:AddressCard/pp:Address/pp:PostalCode
212 /pp:PP/pp:AddressCard/pp:Address/pp:L
213 /pp:PP/pp:AddressCard/pp:Address/pp:LL
214 /pp:PP/pp:AddressCard/pp:Address/pp:St
215 /pp:PP/pp:AddressCard/pp:Address/pp:LSt
216 /pp:PP/pp:AddressCard/pp:Address/pp:C
217 /pp:PP/pp:AddressCard/pp:Nick
218 /pp:PP/pp:AddressCard/pp:LNick
219 /pp:PP/pp:AddressCard/pp:LComment
220 /pp:PP/pp:MsgContact
221 /pp:PP/pp:MsgContact/pp:Nick
222 /pp:PP/pp:MsgContact/pp:LNick
223 /pp:PP/pp:MsgContact/pp:LComment
224 /pp:PP/pp:MsgContact/pp:MsgType
225 /pp:PP/pp:MsgContact/pp:MsgMethod
226 /pp:PP/pp:MsgContact/pp:MsgTechnology
227 /pp:PP/pp:MsgContact/pp:MsgProvider
228 /pp:PP/pp:MsgContact/pp:MsgAccount
229 /pp:PP/pp:MsgContact/pp:MsgSubaccount
230 /pp:PP/pp:Facade
231 /pp:PP/pp:Facade/pp:MugShot
232 /pp:PP/pp:Facade/pp:WebSite
233 /pp:PP/pp:Facade/pp:NamePronounced
234 /pp:PP/pp:Facade/pp:GreetSound
235 /pp:PP/pp:Facade/pp:GreetMeSound
236 /pp:PP/pp:Demographics
237 /pp:PP/pp:Demographics/pp:DisplayLanguage
238 /pp:PP/pp:Demographics/pp:Language
239 /pp:PP/pp:Demographics/pp:Birthday
240 /pp:PP/pp:Demographics/pp:Age
241 /pp:PP/pp:Demographics/pp:TimeZone
242 /pp:PP/pp:SignKey
243 /pp:PP/pp:EncryptKey
244 /pp:PP/pp:EmergencyContact
245 /pp:PP/pp:LEmergencyContact
246
247

248 When slash-separated paths are used, only the container selected by the path and its contents will be returned.

249 2. Selection of AddressCard by an exact match on the contents of a leaf element for the following leaf elements:
250

251 a. pp:AddrType

252 b. pp:Nick

253 c. pp:LNick

254 Only one of the tests needs to be supported in any one slashed path. Such bracketed expression may also appear
255 within (i.e., in the middle of) a slashed path.

256 3. Selection of `MsgContact` by an exact match on the contents of a leaf element for the following leaf elements:
257

258 a. pp:Nick

259 b. pp:LNick

260 c. pp:MsgTechnology

261 d. pp:MsgMethod

262 e. pp:MsgType

263 Nick and LNick need only be testable in isolation. `MsgTechnology`, `MsgMethod`, and `MsgType` can be tested
264 in isolation or simultaneously combined with an AND operator. Other operators do not need to be supported.
265 Such bracketed expression may also appear within a slashed path.

266 4. Selection by the `id` XML attribute of `AddressCard` or `MsgContact`. This test may appear within a slashed path
267 and need not be combinable with any other test.

268 5. Selection of `/pp:PP/pp:LegalIdentity/pp:AltID` by an exact match against the `pp:IDType` element's
269 contents

270 XML namespaces MUST be fully supported in the XPATH expressions by all implementations of ID-SIS-PP, including
271 minimally conforming implementations. The XML namespace mechanism provides flexibility that allows any
272 extension attributes to coexist with standard attributes.

273 Subject to permissions and usage directives, the query MUST return a result that matches the XPATH expression and
274 is extracted from the ID-SIS Personal Profile XML document according to the rules specified in [XPATH]. The result
275 MAY be empty if no elements match the XPATH expression.

276 2.3. Supported XPATH Expressions for Modifies

277 For Modify requests, the following slashed paths MUST be supported in `Select` elements (see [LibertyDST]):

278

279

280 /pp:PP

281 /pp:PP/pp:InformalName

282 /pp:PP/pp:LInformalName

283 /pp:PP/pp:CommonName

284 /pp:PP/pp:LegalIdentity

285 /pp:PP/pp:EmploymentIdentity

286 /pp:PP/pp:AddressCard

287 /pp:PP/pp:MsgContact

288 /pp:PP/pp:Facade

289 /pp:PP/pp:Demographics

290 /pp:PP/pp:SignKey

291 /pp:PP/pp:EncryptKey

292 /pp:PP/pp:EmergencyContact

293 /pp:PP/pp:LEmergencyContact
294

295 This set of slashed paths defines the minimal granularity of updates that MUST be supported. Updates to the containers
296 listed above SHOULD be atomic when feasible.

297 An implementation MAY support full XPATH for modifies. In such cases the implementation MAY restrict the set of
298 slashed paths to the list above. If an implementation supports full XPATH for querying, then it MUST also support
299 full XPATH for modifies.

300 **3. Processing Rules and Other Considerations**

301 **3.1. Repeated Queries Not Required to Report the Same Data**

302 An ID-SIS-PP instance is NOT REQUIRED to report the same results to two instances of the same query. An ID-
303 SIS-PP instance SHOULD report the same results to the same query made by the same client, unless an update
304 (Modify or out-of-band) has occurred in the interim. An ID-SIS-PP instance MAY use the Interaction Service protocol
305 [LibertyInteract] or out-of-band means to determine which data to return.

306 An ID-SIS-PP provider is guided by its policies, the permissions the Principal has set, and the interaction with the
307 Principal, in determining the data to be returned in response to a query. Clients should use the data based on the data's
308 semantic meaning as specified here and further qualified by the `acc` (Attribute Collection Context) XML attributes
309 [LibertyDST] that may be present in the query response. A client SHOULD NOT attempt to use ID-SIS-PP as a
310 transparent data store, as there can be multiple updates, permission, and policy reasons that impede the transparency.

311 **3.2. Support of Multiple Modifications Not Required**

312 A minimally compliant implementation is not required to support multiple `Modification` elements. The `Modify`
313 operation functions as described in [LibertyDST]. The `Modify` operation has the additional relaxation that a
314 minimally compliant ID-SIS-PP implementation MAY refuse a `Modify` request with multiple `Modification`
315 elements, provided all processing rules specified in [LibertyDST] are followed regarding failure to support multiple
316 `Modification` elements.

317 Implementations SHOULD support multiple `Modification` elements when feasible. If an imple-
318 mentation supports multiple `Modification` elements it MAY register the discovery option keyword
319 `urn:liberty:dst:multipleModification`.

320 As specified in [LibertyDST], a minimally compliant ID-SIS-PP implementation MUST support multiple `QueryItem`
321 elements.

322 Support for Multiple `Modify` and `Query` elements is not required.

323 4. Qualifying Attributes with XML Attributes

324 4.1. ID-SIS-PP-Specific XML Attributes

325 4.1.1. nameScheme

326 Synopsis Scheme for analyzing a name into components

327 Data type anyURI

328 Example

329 Schemes are culture-dependent; therefore, it expected that the list will be expanded. The enumerators are URIs to
330 facilitate expansion without conflict. Currently the following enumerators are defined:

```
331  
332  
333 urn:liberty:id-sis-pp:nameScheme:firstlast  
334 urn:liberty:id-sis-pp:nameScheme:firstmiddlelast  
335  
336
```

337 Additional enumerators can be defined as specified in [[LibertyReg](#)].

338 4.2. Use of id XML Attribute

339 An `id` XML attribute is allowed on any element; it is mandatory for `AddressCard` and `MsgContact` containers,
340 because there can be multiple of each as children of the `PP` container. The `id` XML attribute has uniqueness properties
341 as specified in [[LibertyDST](#)], i.e., the `id` is unique among elements within the conceptual underlying XML document.

342 A client that adds `AddressCard` and `MsgContact` containers **MUST** supply an `id` when making a `Modify` request.
343 A client **MAY** supply an `id` XML attribute for any element as part of the `Modify` request, but a server is not required
344 to store the `id` XML attribute except for `AddressCard` and `MsgContact` containers.

345 `AddressCard` and `MsgContact` containers that are populated out-of-band **MUST** provision the `id` XML attribute;
346 this can be accomplished in an implementation-dependent manner. Out-of-band provisioning **MAY** supply an `id`
347 XML attribute for any element.

348 Once an `id` XML attribute has been provisioned for `AddressCard` and `MsgContact` containers, whether via `Modify`
349 or by out-of-band update, it **MUST** remain unaltered and **MUST** be returned by queries regarding these containers until
350 another `Modify` or out-of-band update occurs. `Modifies` and out-of-band updates that do not create these containers,
351 but merely modify their contents, **SHOULD** not alter the `id` XML attribute.

352 `Modifies` and out-of-band updates that do not create an element, but merely modify its contents, **SHOULD** not alter
353 the `id` XML attribute. With the exceptions of `AddressCard` or `MsgContact` containers, once an `id` XML attribute
354 has been provisioned for an element, whether via `Modify` or by out-of-band update, it **MUST** remain unaltered if it is
355 returned by queries regarding the element until another `Modify` or out-of-band update occurs.

356 5. Containers and Attributes of the ID-SIS-PP

357 5.1. PP

358 Synopsis ID-SIS Personal Profile

359 Cardinality 0-1

360 XML schema:

```
361
362
363 <xs:element name="PP" type="PPType"/>
364 <xs:complexType name="PPType">
365   <xs:sequence>
366     <xs:element ref="InformalName" minOccurs="0" maxOccurs="1"/>
367     <xs:element ref="LInformalName" minOccurs="0" maxOccurs="unbounded"/>
368     <xs:element ref="CommonName" minOccurs="0" maxOccurs="1"/>
369     <xs:element ref="LegalIdentity" minOccurs="0" maxOccurs="1"/>
370     <xs:element ref="EmploymentIdentity" minOccurs="0" maxOccurs="1"/>
371     <xs:element ref="AddressCard" minOccurs="0" maxOccurs="unbounded"/>
372     <xs:element ref="MsgContact" minOccurs="0" maxOccurs="unbounded"/>
373     <xs:element ref="Facade" minOccurs="0" maxOccurs="1"/>
374     <xs:element ref="Demographics" minOccurs="0" maxOccurs="1"/>
375     <xs:element ref="SignKey" minOccurs="0" maxOccurs="1"/>
376     <xs:element ref="EncryptKey" minOccurs="0" maxOccurs="1"/>
377     <xs:element ref="EmergencyContact" minOccurs="0" maxOccurs="1"/>
378     <xs:element ref="LEmergencyContact" minOccurs="0" maxOccurs="unbounded"/>
379     <xs:element ref="Extension" minOccurs="0"/>
380   </xs:sequence>
381   <xs:attributeGroup ref="commonAttributes"/>
382 </xs:complexType>
383
```

384 5.2. InformalName

385 Synopsis Screen name of the Principal

386 Data type cis

387 Cardinality 0-1

388 5.3. LInformalName

389 Synopsis Localized screen name of the Principal

390 Data type cis

391 Cardinality 0-n

392 5.4. CommonName

393 Synopsis The name the user prefers to be referred to with in everyday situa-
394 tions

395 Cardinality 0-1

396 XML schema:

```
397  
398  
399 <xs:element name="CommonName" type="CommonNameType"/>  
400 <xs:complexType name="CommonNameType">  
401 <xs:sequence>  
402 <xs:element ref="CN" minOccurs="0" maxOccurs="1"/>  
403 <xs:element ref="LCN" minOccurs="0" maxOccurs="unbounded"/>  
404 <xs:element ref="AltCN" minOccurs="0" maxOccurs="unbounded"/>  
405 <xs:element ref="LAltCN" minOccurs="0" maxOccurs="unbounded"/>  
406 <xs:element ref="AnalyzedName" minOccurs="0" maxOccurs="1"/>  
407 <xs:element ref="Extension" minOccurs="0"/>  
408 </xs:sequence>  
409 <xs:attributeGroup ref="commonAttributes"/>  
410 </xs:complexType>  
411
```

412 5.4.1. CN

413 Synopsis Everyday name in the Latin writing system

414 Data type cis

415 Cardinality 0-1

416 5.4.2. LCN

417 Synopsis Everyday name in a local writing system

418 Data type cis

419 Cardinality 0-n

420 5.4.3. AltCN

421 Synopsis Additional everyday names in the Latin writing system

422 Data type cis

423 Cardinality 0-n

424 **5.4.4. LAItCN**

425	Synopsis	An additional everyday name in a local writing system
426	Data type	cis
427	Cardinality	0-n

428 **5.4.5. AnalyzedName**

429	Synopsis	Name analyzed (decomposed) into its components
430	Cardinality	0-1
431	XML-attributes	nameScheme

432 **XML schema:**

```
433  
434  
435 <xs:element name="AnalyzedName" type="AnalyzedNameType"/>  
436 <xs:complexType name="AnalyzedNameType">  
437   <xs:sequence>  
438     <xs:element ref="PersonalTitle" minOccurs="0" maxOccurs="1"/>  
439     <xs:element ref="LPersonalTitle" minOccurs="0" maxOccurs="unbounded"/>  
440     <xs:element ref="FN" minOccurs="0" maxOccurs="1"/>  
441     <xs:element ref="LFN" minOccurs="0" maxOccurs="unbounded"/>  
442     <xs:element ref="SN" minOccurs="0" maxOccurs="1"/>  
443     <xs:element ref="LSN" minOccurs="0" maxOccurs="unbounded"/>  
444     <xs:element ref="MN" minOccurs="0" maxOccurs="1"/>  
445     <xs:element ref="LMN" minOccurs="0" maxOccurs="unbounded"/>  
446     <xs:element ref="Extension" minOccurs="0"/>  
447   </xs:sequence>  
448   <xs:attribute name="nameScheme" type="xs:anyURI" use="optional"/>  
449   <xs:attributeGroup ref="commonAttributes"/>  
450 </xs:complexType>  
451
```

452 **5.4.5.1. PersonalTitle**

453	Synopsis	Personal or honorary title
454	Data type	cis
455	Cardinality	0-1

456 **5.4.5.2. LPersonalTitle**

457	Synopsis	Personal title in a local writing system
458	Data type	cis
459	Cardinality	0-n

460 **5.4.5.3. FN**

461	Synopsis	First name, Given name
462	Data type	cis
463	Cardinality	0-1

464 **5.4.5.4. LFN**

465	Synopsis	First name in a local writing system
466	Data type	cis
467	Cardinality	0-n

468 **5.4.5.5. SN**

469	Synopsis	Surname (familyname)
470	Data type	cis
471	Cardinality	0-1

472 **5.4.5.6. LSN**

473	Synopsis	Surname in a local writing system
474	Data type	cis
475	Cardinality	0-n

476 **5.4.5.7. MN**

477	Synopsis	Middle name oinitialal
478	Data type	cis
479	Cardinality	0-1

480 **5.4.5.8. LMN**

481	Synopsis	Middle name or initial in a local writing system
482	Data type	cis
483	Cardinality	0-n

484 **5.5. LegalIdentity**

485 Synopsis Official legal identification of the Principal

486 Cardinality 0-1

487 **XML schema:**

```
488
489
490 <xs:element name="LegalIdentity" type="LegalIdentityType"/>
491 <xs:complexType name="LegalIdentityType">
492   <xs:sequence>
493     <xs:element ref="LegalName" minOccurs="0" maxOccurs="1"/>
494     <xs:element ref="LLegalName" minOccurs="0" maxOccurs="unbounded"/>
495     <xs:element ref="AnalyzedName" minOccurs="0" maxOccurs="1"/>
496     <xs:element ref="VAT" minOccurs="0" maxOccurs="1"/>
497     <xs:element ref="AltID" minOccurs="0" maxOccurs="unbounded"/>
498     <xs:element ref="DOB" minOccurs="0" maxOccurs="1"/>
499     <xs:element ref="Gender" minOccurs="0" maxOccurs="1"/>
500     <xs:element ref="MaritalStatus" minOccurs="0" maxOccurs="1"/>
501     <xs:element ref="Extension" minOccurs="0"/>
502   </xs:sequence>
503   <xs:attributeGroup ref="commonAttributes"/>
504 </xs:complexType>
505
```

506 **5.5.1. LegalName**

507 Synopsis Full legal name in the Latin writing system

508 Data type cis

509 Cardinality 0-1

510 **5.5.2. LLegalName**

511 Synopsis Full legal name in a local writing system

512 Data type cis

513 Cardinality 0-n

514 **5.5.3. VAT**

515 Synopsis Fiscal identification number

516 Cardinality 0-1

517 Processing rules

518 If AP chooses to store the VAT attribute, AP MUST implement sufficient permissions enforcement, policies, audit trail,
519 and usage directives to ensure that the VAT is only used for legitimate purposes. AP MUST NOT disclose the VAT to
520 inappropriate parties. It is RECOMMENDED that this attribute not be populated.

521 XML schema:

```
522  
523  
524 <xs:element name="VAT" type="VATType" />  
525 <xs:complexType name="VATType">  
526   <xs:sequence>  
527     <xs:element ref="IDValue" minOccurs="1" maxOccurs="1" />  
528     <xs:element ref="IDType" minOccurs="0" maxOccurs="1" />  
529     <xs:element ref="Extension" minOccurs="0" />  
530   </xs:sequence>  
531   <xs:attributeGroup ref="commonAttributes" />  
532 </xs:complexType>  
533  
534
```

535 5.5.3.1. IDValue

536 Synopsis	Identification number value
537 Data type	ces
538 Cardinality	0-1

539 5.5.3.2. IDType

540 Synopsis	Type of identification number stored in a VAT or AltID attribute
541 Data type	URI enumeration
542 Cardinality	0-1

543 Enumerators are be defined as specified in [[LibertyReg](#)]. The current enumerators are:

```
544  
545  
546 urn:liberty:id-sis-pp:IDType:ukvat  
547 urn:liberty:id-sis-pp:IDType:itcif  
548 urn:liberty:id-sis-pp:IDType:ptnif  
549 urn:liberty:id-sis-pp:IDType:esnif  
550 urn:liberty:id-sis-pp:IDType:fialv  
551 urn:liberty:id-sis-pp:IDType:rfid  
552  
553
```

554 5.5.4. AltID

555 Synopsis	Other identification number(s)
556 Cardinality	0-n

557 Processing rules

558 If an AP chooses to store AltID attributes, the AP MUST implement sufficient permissions enforcement, policies,
559 audit trail, and usage directives to ensure that AltID is used for legitimate purposes only. AP MUST NOT disclose
560 AltID to inappropriate parties. It is RECOMMENDED that this attribute not be populated.

561 XML schema:

```
562  
563  
564 <xs:element name="AltID" type="AltIDType" />  
565 <xs:complexType name="AltIDType">  
566   <xs:sequence>  
567     <xs:element ref="IDValue" minOccurs="1" maxOccurs="1" />  
568     <xs:element ref="IDType" minOccurs="0" maxOccurs="1" />  
569     <xs:element ref="Extension" minOccurs="0" />  
570   </xs:sequence>  
571   <xs:attributeGroup ref="commonAttributes" />  
572 </xs:complexType>  
573  
574
```

575 See VAT [Section 5.5.3](#) for descriptions of IDValue and IDType.

576 5.5.5. DOB

577 Synopsis	Date of Birth
578 Data type	date
579 Cardinality	0-1

580 If an AP chooses to store the DOB attribute, the AP MUST implement sufficient permissions enforcement, policies,
581 audit trail, and usage directives to ensure that DOB is used only for legitimate purposes. An AP MUST NOT disclose
582 DOB to inappropriate parties. It is RECOMMENDED that this attribute not be populated. It is RECOMMENDED that
583 the Age attribute be used instead when feasible.

584 5.5.6. Gender

585 Synopsis	Gender of the Principal
586 Data type	URI enumeration
587 Cardinality	0-1

588 The following enumerators MUST be supported:

```
589  
590  
591   urn:liberty:id-sis-pp:gender:m (male)  
592   urn:liberty:id-sis-pp:gender:f (female)  
593  
594
```

595 5.5.7. MaritalStatus

596 Synopsis	Marital status, such as single or married
--------------	---

597 Data type URI enumeration

598 Cardinality 0-1

599 The following enumerators **MUST** be supported:

600
601
602 urn:liberty:id-sis-pp:maritalstatus:single
603 urn:liberty:id-sis-pp:maritalstatus:married
604 urn:liberty:id-sis-pp:maritalstatus:commonlawmarriage
605 urn:liberty:id-sis-pp:maritalstatus:separated
606 urn:liberty:id-sis-pp:maritalstatus:divorced
607 urn:liberty:id-sis-pp:maritalstatus:widowed
608 urn:liberty:id-sis-pp:maritalstatus:dead
609 urn:liberty:id-sis-pp:maritalstatus:notapplicable
610
611

612 The list of enumerators **MAY** be extended as described in [\[LibertyReg\]](#).

613 5.6. EmploymentIdentity

614 Synopsis Minimal Employer and employment details

615 Cardinality 0-1

616 XML schema:

```
617  
618  
619 <xs:element name="EmploymentIdentity" type="EmploymentIdentityType"/>  
620 <xs:complexType name="EmploymentIdentityType">  
621   <xs:sequence>  
622     <xs:element ref="JobTitle" minOccurs="0" maxOccurs="1"/>  
623     <xs:element ref="LJobTitle" minOccurs="0" maxOccurs="unbounded"/>  
624     <xs:element ref="O" minOccurs="0" maxOccurs="1"/>  
625     <xs:element ref="LO" minOccurs="0" maxOccurs="1"/>  
626     <xs:element ref="AltO" minOccurs="0" maxOccurs="unbounded"/>  
627     <xs:element ref="AltLO" minOccurs="0" maxOccurs="unbounded"/>  
628     <xs:element ref="Extension" minOccurs="0"/>  
629   </xs:sequence>  
630   <xs:attributeGroup ref="commonAttributes"/>  
631 </xs:complexType>  
632  
633
```

634 5.6.1. JobTitle

635 Synopsis Job title in Latin script

636 Data type cis

637 Cardinality 0-1

638 **5.6.2. LJobTitle**

639	Synopsis	Job title in a local writing system
640	Data type	cis
641	Cardinality	0-n

642 **5.6.3. O**

643	Synopsis	Informal name of an organization
644	Data type	cis
645	Cardinality	0-1

646 **5.6.4. LO**

647	Synopsis	Localized version of organization'informal name
648	Data type	cis
649	Cardinality	0-1

650 **5.6.5. AltO**

651	Synopsis	Additional informal names of an organization
652	Data type	cis
653	Cardinality	0-n

654 **5.6.6. AltLO**

655	Synopsis	Localized version of an organization'informal name
656	Data type	cis
657	Cardinality	0-n

658 **5.7. AddressCard**

659	Synopsis	An address card data structure for ID-SIS-PP
660	Cardinality	0-n

661 **XML schema:**

```
662
663
664 <xs:element name="AddressCard" type="AddressCardType" />
665 <xs:complexType name="AddressCardType">
666   <xs:sequence>
667     <xs:element ref="AddrType" minOccurs="0" maxOccurs="unbounded" />
668     <xs:element ref="Address" minOccurs="0" maxOccurs="1" />
669     <xs:element ref="Nick" minOccurs="0" maxOccurs="1" />
670     <xs:element ref="LNick" minOccurs="0" maxOccurs="unbounded" />
671     <xs:element ref="LComment" minOccurs="0" maxOccurs="1" />
672     <xs:element ref="Extension" minOccurs="0" />
673   </xs:sequence>
674   <xs:attributeGroup ref="commonAttributes" />
675 </xs:complexType>
676
677
```

678 **5.7.1. AddrType**

679	Synopsis	Defines the role of an AddressCard
680	Data type	URI enumeration
681	Cardinality	0-n

682 Following enumerators **MUST** be supported:

```
683
684
685 urn:liberty:id-sis-pp:addrType:domicile legal residence
686 urn:liberty:id-sis-pp:addrType:home everyday home
687 urn:liberty:id-sis-pp:addrType:work work address, the office where the person works
688 urn:liberty:id-sis-pp:addrType:vacation holiday address
689 urn:liberty:id-sis-pp:addrType:emergency structured emergency contact
690
691
```

692 Additional enumerators **MAY** be defined as described in [[LibertyReg](#)].

693 **5.7.2. Address**

694	Synopsis	Commonly used group of postal address fields
695	Cardinality	0-1

696 **Processing rules**

697 AP SHOULD implement permissions enforcement that allows only C and PostalCode attributes to be provided to
698 those SPs that do not need the entire address.

699 **XML schema:**

```
700  
701  
702 <xs:element name="Address" type="AddressType" />  
703 <xs:complexType name="AddressType">  
704   <xs:sequence>  
705     <xs:element ref="PostalAddress" minOccurs="0" maxOccurs="1" />  
706     <xs:element ref="LPostalAddress" minOccurs="0" maxOccurs="unbounded" />  
707     <xs:element ref="PostalCode" minOccurs="0" maxOccurs="1" />  
708     <xs:element ref="L" minOccurs="0" maxOccurs="1" />  
709     <xs:element ref="LL" minOccurs="0" maxOccurs="unbounded" />  
710     <xs:element ref="St" minOccurs="0" maxOccurs="1" />  
711     <xs:element ref="LSt" minOccurs="0" maxOccurs="unbounded" />  
712     <xs:element ref="C" minOccurs="0" maxOccurs="1" />  
713     <xs:element ref="Extension" minOccurs="0" />  
714   </xs:sequence>  
715   <xs:attributeGroup ref="commonAttributes" />  
716 </xs:complexType>  
717  
718
```

719 **5.7.2.1. PostalAddress**

720 Synopsis Detailed local address, e.g., street or block address with house n°,
721 etc.

722 Data type cis

723 Cardinality 0-1

724 Multiline address MUST be represented using the dollar sign ("\$\$") to mark the line breaks.

725 **5.7.2.2. LPostalAddress**

726 Synopsis Street address in a local writing system

727 Data type cis

728 Cardinality 0-n

729 **5.7.2.3. PostalCode**

730 Synopsis Postal code, such as zip code

731 Data type cis

732 Cardinality 0-1

733 **5.7.2.4. L**

734 Synopsis Locality or city

735 Data type cis

736 Cardinality 0-1

737 **5.7.2.5. LL**

738 Synopsis Locality or city in a local writing system

739 Data type cis

740 Cardinality 0-n

741 **5.7.2.6. St**

742 Synopsis State or province, if applicable

743 Data type cis

744 Cardinality 0-1

745 **5.7.2.7. LSt**

746 Synopsis State or province in a local writing system

747 Data type cis

748 Cardinality 0-n

749 **5.7.2.8. C**

750 Synopsis Country

751 Data type ISO 3166 country code

752 Cardinality 0-1

753 **5.7.3. Nick**

754 Synopsis Nickname for identifying an item in a user interface

755 Data type cis

756 Cardinality 0-1

757 Nickname SHOULD NOT be printed in address label. The nickname can not and SHOULD NOT be used as machine
758 readable identification of any data item. Nick names are not unique.

759 **5.7.4. LNick**

760 Synopsis Local script version of nickname
761 Data type cis
762 Cardinality 0-n

763 **5.7.5. LComment**

764 Synopsis Private comment about a data object
765 Data type cis
766 Cardinality 0-1

767 **5.8. MsgContact**

768 Synopsis Generic phone, email, or instant messaging contact information
769 Cardinality 0-n

770 **XML schema:**

```
771  
772  
773 <xs:element name="MsgContact" type="MsgContactType"/>  
774 <xs:complexType name="MsgContactType">  
775   <xs:sequence>  
776     <xs:element ref="Nick" minOccurs="0" maxOccurs="1"/>  
777     <xs:element ref="LNick" minOccurs="0" maxOccurs="unbounded"/>  
778     <xs:element ref="LComment" minOccurs="0" maxOccurs="1"/>  
779     <xs:element ref="MsgType" minOccurs="0" maxOccurs="unbounded"/>  
780     <xs:element ref="MsgMethod" minOccurs="0" maxOccurs="unbounded"/>  
781     <xs:element ref="MsgTechnology" minOccurs="0" maxOccurs="unbounded"/>  
782     <xs:element ref="MsgProvider" minOccurs="0" maxOccurs="1"/>  
783     <xs:element ref="MsgAccount" minOccurs="0" maxOccurs="1"/>  
784     <xs:element ref="MsgSubaccount" minOccurs="0" maxOccurs="1"/>  
785     <xs:element ref="Extension" minOccurs="0"/>  
786   </xs:sequence>  
787   <xs:attributeGroup ref="commonAttributes"/>  
788 </xs:complexType>  
789  
790
```

791 **5.8.1. MsgType**

792 Synopsis Usage role of the messaging contact
793 Data type URI enumeration

794 Cardinality 0-n

795 Following enumerators MUST be supported:

796

797

798 urn:liberty:id-sis-pp:msgType:personal

799 urn:liberty:id-sis-pp:msgType:work

800 urn:liberty:id-sis-pp:msgType:mobile

801 urn:liberty:id-sis-pp:msgType:vacation

802 urn:liberty:id-sis-pp:msgType:emergency

803

804

805 Additional enumerators MAY be defined as described in [[LibertyReg](#)].

806 5.8.2. MsgMethod

807 Synopsis Messaging method associated with this contact or device

808 Data type URI

809 Cardinality 0-n

810 Following enumerators MUST be supported:

811

812

813 urn:liberty:id-sis-pp:msgMethod:voice

814 urn:liberty:id-sis-pp:msgMethod:fax

815 urn:liberty:id-sis-pp:msgMethod:email

816 urn:liberty:id-sis-pp:msgMethod:page r

817 urn:liberty:id-sis-pp:msgMethod:im

818

819

820 Additional enumerators MAY be defined as described in [[LibertyReg](#)].

821 5.8.3. MsgTechnology

822 Synopsis Messaging technology or protocol associated with this contact or
823 device

824 Data type URI enumeration

825 Cardinality 0-n

826 XML-attributes msgLimit

827 Following enumerators MUST be supported:

828
829
830 urn:liberty:id-sis-pp:msgTechnology:pots
831 urn:liberty:id-sis-pp:msgTechnology:voip
832 urn:liberty:id-sis-pp:msgTechnology:fax
833 urn:liberty:id-sis-pp:msgTechnology:email
834 urn:liberty:id-sis-pp:msgTechnology:sms
835 urn:liberty:id-sis-pp:msgTechnology:mms
836 urn:liberty:id-sis-pp:msgTechnology:pager
837 urn:liberty:id-sis-pp:msgTechnology:aol
838 urn:liberty:id-sis-pp:msgTechnology:icq
839 urn:liberty:id-sis-pp:msgTechnology:yahoo
840 urn:liberty:id-sis-pp:msgTechnology:msn
841 urn:liberty:id-sis-pp:msgTechnology:mim
842 urn:liberty:id-sis-pp:msgTechnology:irc
843
844

845 Additional enumerators MAY be defined as described in [[LibertyReg](#)].

846 **5.8.4. MsgProvider**

847 Synopsis	Service provider or domain that provides messaging services
848 Data type	ces
849 Cardinality	0-1

850 **5.8.5. MsgAccount**

851 Synopsis	Account or address information within the messaging provider
852 Data type	ces
853 Cardinality	0-1

854 **5.8.6. MsgSubaccount**

855 Synopsis	Subaccount within a messaging account, such as voice mail box
856	under phone number
857 Data type	ces
858 Cardinality	0-1

859 **5.9. Facade**

860 Synopsis	Principal's look and sound facade
861 Cardinality	0-1

862 **XML schema:**

```
863
864
865 <xs:element name="Facade" type="FacadeType"/>
866 <xs:complexType name="FacadeType">
867   <xs:sequence>
868     <xs:element ref="MugShot" minOccurs="0" maxOccurs="1"/>
869     <xs:element ref="WebSite" minOccurs="0" maxOccurs="1"/>
870     <xs:element ref="NamePronounced" minOccurs="0" maxOccurs="1"/>
871     <xs:element ref="GreetSound" minOccurs="0" maxOccurs="1"/>
872     <xs:element ref="GreetMeSound" minOccurs="0" maxOccurs="1"/>
873     <xs:element ref="Extension" minOccurs="0"/>
874   </xs:sequence>
875   <xs:attributeGroup ref="commonAttributes"/>
876 </xs:complexType>
877
878
```

879 **5.9.1. MugShot**

880	Synopsis	Face photo
881	Data type	URL
882	Cardinality	0-1

883 **5.9.2. WebSite**

884	Synopsis	Web site of the Principal
885	Data type	URI
886	Cardinality	0-1

887 **5.9.3. NamePronounced**

888	Synopsis	User's common name pronounced (usually by the user)
889	Data type	URL
890	Cardinality	0-1

891 **5.9.4. GreetSound**

892	Synopsis	Greeting sound, e.g., user saying "Hello" to someone else
893	Data type	URL
894	Cardinality	0-1

895 **5.9.5. GreetMeSound**

896	Synopsis	Sound for user interface to greet the user
897	Data type	URL
898	Cardinality	0-1

899 **5.10. Demographics**

900	Synopsis	Base level demographics used by ID-PP
901	Cardinality	0-1

902 **XML schema:**

```
903
904
905 <xs:element name="Demographics" type="DemographicsType"/>
906 <xs:complexType name="DemographicsType">
907   <xs:sequence>
908     <xs:element ref="DisplayLanguage" minOccurs="0" maxOccurs="1"/>
909     <xs:element ref="Language" minOccurs="0" maxOccurs="unbounded"/>
910     <xs:element ref="Birthday" minOccurs="0" maxOccurs="1"/>
911     <xs:element ref="Age" minOccurs="0" maxOccurs="1"/>
912     <xs:element ref="TimeZone" minOccurs="0" maxOccurs="1"/>
913     <xs:element ref="Extension" minOccurs="0"/>
914   </xs:sequence>
915   <xs:attributeGroup ref="commonAttributes"/>
916 </xs:complexType>
917
918
```

919 **5.10.1. DisplayLanguage**

920	Synopsis	The language the Principal prefers for displayed user interfaces
921	Data type	ISO Language code
922	Cardinality	0-1

923 **5.10.2. Language**

924	Synopsis	Language the Principal is able to understand
925	Data type	ISO Language code
926	Cardinality	0-n

927 **5.10.3. Birthday**

928	Synopsis	Birthday without year
929	Data type	gMonthDay
930	Cardinality	0-1

931 **5.10.4. Age**

932	Synopsis	Age of the Principal in years
933	Data type	number
934	Cardinality	0-1

935 **5.10.5. TimeZone**

936	Synopsis	Time zone of the Principal
937	Data type	ces
938	Cardinality	0-1
939	Syntax of time zone is plus or minus sign followed by two digit hour, a colon, and a two digit minute expressing the	
940	offset from UTC.	

941 **5.11. SignKey**

942	Synopsis	Principal's public key or certificate for signing
943	Data type	pp:KeyInfoType
944	Cardinality	0-1

945 **5.12. EncryptKey**

946	Synopsis	Principal's public key or certificate for encryption
947	Data type	pp:KeyInfoType
948	Cardinality	0-1

949 **5.13. EmergencyContact**

950	Synopsis	Next of kin or other person to contact if Principal has medical
951		emergency
952	Data type	ces
953	Cardinality	0-1

954 **5.14. LEmergencyContact**

955	Synopsis	Localized EmergencyContact
956	Data type	ces
957	Cardinality	0-n

958 6. XML schema for ID-SIS-PP

959 The formal XML schema for the ID Personal Profile follows:

```
960 <!-- 2003-11-02-->
961 <xs:schema targetNamespace="urn:liberty:id-sis-pp:2003-08" xmlns="urn:liberty:id-sis-pp:2003-0
962 8" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
963 elementFormDefault="qualified" version="1.0">
964   <xs:import namespace="http://www.w3.org/2000/09/xmldsig#" schemaLocation="http://www.w3.org/
965 TR/xmldsig-core/xmldsig-core-schema.xsd"/>
966   <xs:annotation>
967     <xs:documentation>Title: Liberty ID-WSF-SIS Personal Profile Services Schema</xs:documentation>
968     <xs:documentation>The source code in this XSD file was excerpted verbatim from:
969
970 Liberty Liberty ID-SIS Personal Profile Service Specification
971 Version 1.2
972 12th November 2003
973
974 Copyright (c) 2003 Liberty Alliance participants, see
975 https://www.projectliberty.org/specs/idwsf_copyrights.html
976 </xs:documentation>
977 </xs:annotation>
978 <xs:include schemaLocation="liberty-idwsf-dst-v1.0.xsd"/>
979 <xs:include schemaLocation="liberty-idwsf-dst-dt-v1.0.xsd"/>
980 <xs:complexType name="KeyInfoType" mixed="true">
981   <xs:complexContent mixed="true">
982     <xs:extension base="ds:KeyInfoType">
983       <xs:attribute ref="modificationTime"/>
984       <xs:attribute ref="ACC"/>
985       <xs:attribute ref="ACCTime"/>
986       <xs:attribute ref="modifier"/>
987     </xs:extension>
988   </xs:complexContent>
989 </xs:complexType>
990 <xs:simpleType name="SelectType">
991   <xs:restriction base="xs:string"/>
992 </xs:simpleType>
993 <xs:element name="PP" type="PPType"/>
994 <xs:complexType name="PPType">
995   <xs:sequence>
996     <xs:element ref="InformalName" minOccurs="0"/>
997     <xs:element ref="LInformalName" minOccurs="0" maxOccurs="unbounded"/>
998     <xs:element ref="CommonName" minOccurs="0"/>
999     <xs:element ref="LegalIdentity" minOccurs="0"/>
1000    <xs:element ref="EmploymentIdentity" minOccurs="0"/>
1001    <xs:element ref="AddressCard" minOccurs="0" maxOccurs="unbounded"/>
1002    <xs:element ref="MsgContact" minOccurs="0" maxOccurs="unbounded"/>
1003    <xs:element ref="Facade" minOccurs="0"/>
1004    <xs:element ref="Demographics" minOccurs="0"/>
1005    <xs:element ref="SignKey" minOccurs="0"/>
1006    <xs:element ref="EncryptKey" minOccurs="0"/>
1007    <xs:element ref="EmergencyContact" minOccurs="0"/>
1008    <xs:element ref="LEmergencyContact" minOccurs="0" maxOccurs="unbounded"/>
1009    <xs:element ref="Extension" minOccurs="0"/>
1010   </xs:sequence>
1011   <xs:attributeGroup ref="commonAttributes"/>
1012 </xs:complexType>
1013 <xs:element name="InformalName" type="DSTString"/>
1014 <xs:element name="LInformalName" type="DSTLocalizedString"/>
1015 <xs:element name="CommonName" type="CommonNameType"/>
1016 <xs:complexType name="CommonNameType">
1017   <xs:sequence>
1018     <xs:element ref="CN" minOccurs="0"/>
1019     <xs:element ref="LCN" minOccurs="0" maxOccurs="unbounded"/>
1020     <xs:element ref="AltCN" minOccurs="0" maxOccurs="unbounded"/>
1021     <xs:element ref="LAltCN" minOccurs="0" maxOccurs="unbounded"/>
1022     <xs:element ref="AnalyzedName" minOccurs="0"/>
```

```
1023     <xs:element ref="Extension" minOccurs="0"/>
1024   </xs:sequence>
1025   <xs:attributeGroup ref="commonAttributes"/>
1026 </xs:complexType>
1027 <xs:element name="CN" type="DSTString"/>
1028 <xs:element name="LCN" type="DSTLocalizedString"/>
1029 <xs:element name="AltCN" type="DSTString"/>
1030 <xs:element name="LAltCN" type="DSTLocalizedString"/>
1031 <xs:element name="AnalyzedName" type="AnalyzedNameType"/>
1032 <xs:complexType name="AnalyzedNameType">
1033   <xs:sequence>
1034     <xs:element ref="PersonalTitle" minOccurs="0"/>
1035     <xs:element ref="LPersonalTitle" minOccurs="0" maxOccurs="unbounded"/>
1036     <xs:element ref="FN" minOccurs="0"/>
1037     <xs:element ref="LFN" minOccurs="0" maxOccurs="unbounded"/>
1038     <xs:element ref="SN" minOccurs="0"/>
1039     <xs:element ref="LSN" minOccurs="0" maxOccurs="unbounded"/>
1040     <xs:element ref="MN" minOccurs="0"/>
1041     <xs:element ref="LMN" minOccurs="0" maxOccurs="unbounded"/>
1042     <xs:element ref="Extension" minOccurs="0"/>
1043   </xs:sequence>
1044   <xs:attribute name="nameScheme" type="xs:anyURI" use="optional"/>
1045   <xs:attributeGroup ref="commonAttributes"/>
1046 </xs:complexType>
1047 <xs:element name="PersonalTitle" type="DSTString"/>
1048 <xs:element name="LPersonalTitle" type="DSTLocalizedString"/>
1049 <xs:element name="FN" type="DSTString"/>
1050 <xs:element name="LFN" type="DSTLocalizedString"/>
1051 <xs:element name="SN" type="DSTString"/>
1052 <xs:element name="LSN" type="DSTLocalizedString"/>
1053 <xs:element name="MN" type="DSTString"/>
1054 <xs:element name="LMN" type="DSTLocalizedString"/>
1055 <xs:element name="LegalIdentity" type="LegalIdentityType"/>
1056 <xs:complexType name="LegalIdentityType">
1057   <xs:sequence>
1058     <xs:element ref="LegalName" minOccurs="0"/>
1059     <xs:element ref="LLegalName" minOccurs="0" maxOccurs="unbounded"/>
1060     <xs:element ref="AnalyzedName" minOccurs="0"/>
1061     <xs:element ref="VAT" minOccurs="0"/>
1062     <xs:element ref="AltID" minOccurs="0" maxOccurs="unbounded"/>
1063     <xs:element ref="DOB" minOccurs="0"/>
1064     <xs:element ref="Gender" minOccurs="0"/>
1065     <xs:element ref="MaritalStatus" minOccurs="0"/>
1066     <xs:element ref="Extension" minOccurs="0"/>
1067   </xs:sequence>
1068   <xs:attributeGroup ref="commonAttributes"/>
1069 </xs:complexType>
1070 <xs:element name="LegalName" type="DSTString"/>
1071 <xs:element name="LLegalName" type="DSTLocalizedString"/>
1072 <xs:element name="VAT" type="VATType"/>
1073 <xs:complexType name="VATType">
1074   <xs:sequence>
1075     <xs:element ref="IDValue"/>
1076     <xs:element ref="IDType" minOccurs="0"/>
1077     <xs:element ref="Extension" minOccurs="0"/>
1078   </xs:sequence>
1079   <xs:attributeGroup ref="commonAttributes"/>
1080 </xs:complexType>
1081 <xs:element name="IDValue" type="DSTString"/>
1082 <xs:element name="IDType" type="DSTURI"/>
1083 <xs:element name="AltID" type="AltIDType"/>
1084 <xs:complexType name="AltIDType">
1085   <xs:sequence>
1086     <xs:element ref="IDValue"/>
1087     <xs:element ref="IDType" minOccurs="0"/>
1088     <xs:element ref="Extension" minOccurs="0"/>
1089   </xs:sequence>
```

```
1090     <xs:attributeGroup ref="commonAttributes" />
1091 </xs:complexType>
1092 <xs:element name="DOB" type="DSTDate" />
1093 <xs:element name="Gender" type="DSTURI" />
1094 <xs:element name="MaritalStatus" type="DSTURI" />
1095 <xs:element name="EmploymentIdentity" type="EmploymentIdentityType" />
1096 <xs:complexType name="EmploymentIdentityType">
1097   <xs:sequence>
1098     <xs:element ref="JobTitle" minOccurs="0" />
1099     <xs:element ref="LJobTitle" minOccurs="0" maxOccurs="unbounded" />
1100     <xs:element ref="O" minOccurs="0" />
1101     <xs:element ref="LO" minOccurs="0" />
1102     <xs:element ref="AltO" minOccurs="0" maxOccurs="unbounded" />
1103     <xs:element ref="AltLO" minOccurs="0" maxOccurs="unbounded" />
1104     <xs:element ref="Extension" minOccurs="0" />
1105   </xs:sequence>
1106   <xs:attributeGroup ref="commonAttributes" />
1107 </xs:complexType>
1108 <xs:element name="JobTitle" type="DSTString" />
1109 <xs:element name="LJobTitle" type="DSTLocalizedString" />
1110 <xs:element name="O" type="DSTString" />
1111 <xs:element name="LO" type="DSTLocalizedString" />
1112 <xs:element name="AltO" type="DSTString" />
1113 <xs:element name="AltLO" type="DSTLocalizedString" />
1114 <xs:element name="AddressCard" type="AddressCardType" />
1115 <xs:complexType name="AddressCardType">
1116   <xs:sequence>
1117     <xs:element ref="AddrType" minOccurs="0" maxOccurs="unbounded" />
1118     <xs:element ref="Address" minOccurs="0" />
1119     <xs:element ref="Nick" minOccurs="0" />
1120     <xs:element ref="LNick" minOccurs="0" maxOccurs="unbounded" />
1121     <xs:element ref="LComment" minOccurs="0" />
1122     <xs:element ref="Extension" minOccurs="0" />
1123   </xs:sequence>
1124   <xs:attributeGroup ref="commonAttributes" />
1125 </xs:complexType>
1126 <xs:element name="AddrType" type="DSTURI" />
1127 <xs:element name="Address" type="AddressType" />
1128 <xs:complexType name="AddressType">
1129   <xs:sequence>
1130     <xs:element ref="PostalAddress" minOccurs="0" />
1131     <xs:element ref="LPostalAddress" minOccurs="0" maxOccurs="unbounded" />
1132     <xs:element ref="PostalCode" minOccurs="0" />
1133     <xs:element ref="L" minOccurs="0" />
1134     <xs:element ref="LL" minOccurs="0" maxOccurs="unbounded" />
1135     <xs:element ref="St" minOccurs="0" />
1136     <xs:element ref="LSt" minOccurs="0" maxOccurs="unbounded" />
1137     <xs:element ref="C" minOccurs="0" />
1138     <xs:element ref="Extension" minOccurs="0" />
1139   </xs:sequence>
1140   <xs:attributeGroup ref="commonAttributes" />
1141 </xs:complexType>
1142 <xs:element name="PostalAddress" type="DSTString" />
1143 <xs:element name="LPostalAddress" type="DSTLocalizedString" />
1144 <xs:element name="PostalCode" type="DSTString" />
1145 <xs:element name="L" type="DSTString" />
1146 <xs:element name="LL" type="DSTLocalizedString" />
1147 <xs:element name="St" type="DSTString" />
1148 <xs:element name="LSt" type="DSTLocalizedString" />
1149 <xs:element name="C" type="DSTString" />
1150 <xs:element name="Nick" type="DSTString" />
1151 <xs:element name="LNick" type="DSTLocalizedString" />
1152 <xs:element name="LComment" type="DSTString" />
1153 <xs:element name="MsgContact" type="MsgContactType" />
1154 <xs:complexType name="MsgContactType">
1155   <xs:sequence>
1156     <xs:element ref="Nick" minOccurs="0" />
```

```

1157     <xs:element ref="LNick" minOccurs="0" maxOccurs="unbounded" />
1158     <xs:element ref="LComment" minOccurs="0" />
1159     <xs:element ref="MsgType" minOccurs="0" maxOccurs="unbounded" />
1160     <xs:element ref="MsgMethod" minOccurs="0" maxOccurs="unbounded" />
1161     <xs:element ref="MsgTechnology" minOccurs="0" maxOccurs="unbounded" />
1162     <xs:element ref="MsgProvider" minOccurs="0" />
1163     <xs:element ref="MsgAccount" minOccurs="0" />
1164     <xs:element ref="MsgSubaccount" minOccurs="0" />
1165     <xs:element ref="Extension" minOccurs="0" />
1166   </xs:sequence>
1167   <xs:attributeGroup ref="commonAttributes" />
1168 </xs:complexType>
1169 <xs:element name="MsgType" type="DSTURI" />
1170 <xs:element name="MsgMethod" type="DSTURI" />
1171 <xs:element name="MsgTechnology">
1172   <xs:complexType>
1173     <xs:complexContent>
1174       <xs:extension base="DSTURI">
1175         <xs:attribute name="msgLimit" type="xs:integer" use="optional" />
1176       </xs:extension>
1177     </xs:complexContent>
1178   </xs:complexType>
1179 </xs:element>
1180 <xs:element name="MsgProvider" type="DSTString" />
1181 <xs:element name="MsgAccount" type="DSTString" />
1182 <xs:element name="MsgSubaccount" type="DSTString" />
1183 <xs:element name="Facade" type="FacadeType" />
1184 <xs:complexType name="FacadeType">
1185   <xs:sequence>
1186     <xs:element ref="MugShot" minOccurs="0" />
1187     <xs:element ref="WebSite" minOccurs="0" />
1188     <xs:element ref="NamePronounced" minOccurs="0" />
1189     <xs:element ref="GreetSound" minOccurs="0" />
1190     <xs:element ref="GreetMeSound" minOccurs="0" />
1191     <xs:element ref="Extension" minOccurs="0" />
1192   </xs:sequence>
1193   <xs:attributeGroup ref="commonAttributes" />
1194 </xs:complexType>
1195 <xs:element name="MugShot" type="DSTURI" />
1196 <xs:element name="WebSite" type="DSTURI" />
1197 <xs:element name="NamePronounced" type="DSTURI" />
1198 <xs:element name="GreetSound" type="DSTURI" />
1199 <xs:element name="GreetMeSound" type="DSTURI" />
1200 <xs:element name="Demographics" type="DemographicsType" />
1201 <xs:complexType name="DemographicsType">
1202   <xs:sequence>
1203     <xs:element ref="DisplayLanguage" minOccurs="0" />
1204     <xs:element ref="Language" minOccurs="0" maxOccurs="unbounded" />
1205     <xs:element ref="Birthday" minOccurs="0" />
1206     <xs:element ref="Age" minOccurs="0" />
1207     <xs:element ref="TimeZone" minOccurs="0" />
1208     <xs:element ref="Extension" minOccurs="0" />
1209   </xs:sequence>
1210   <xs:attributeGroup ref="commonAttributes" />
1211 </xs:complexType>
1212 <xs:element name="DisplayLanguage" type="DSTString" />
1213 <xs:element name="Language" type="DSTString" />
1214 <xs:element name="Birthday" type="DSTMonthDay" />
1215 <xs:element name="Age" type="DSTInteger" />
1216 <xs:element name="TimeZone" type="DSTString" />
1217 <xs:element name="SignKey" type="KeyInfoType" />
1218 <xs:element name="EncryptKey" type="KeyInfoType" />
1219 <xs:element name="EmergencyContact" type="DSTString" />
1220 <xs:element name="LEmergencyContact" type="DSTLocalizedString" />
1221 </xs:schema>
1222
1223

```

1224

1225 7. WSDL for ID-SIS-PP

1226 The abstract Web Services Description Language (WSDL) declaration for the ID Personal Profile follows. The
1227 declaration states what is derived from [LibertyDST], namely that ID-SIS-PP is characterized by Query and Modify
1228 operations cast to namespace of ID-SIS-PP.

```
1229 <wsdl:definitions xmlns:typens="urn:liberty:id-sis-pp:wSDL:2003-08" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
1230   xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:pp="urn:liberty:id-sis-pp:2003-08"
1231   xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/" xmlns="http://schemas.xmlsoap.org/wsdl/"
1232   targetNamespace="urn:liberty:id-sis-pp:wSDL:2003-08" name="pp">
1233   <types>
1234     <xsd:schema>
1235       <xsd:import namespace="urn:liberty:id-sis-pp:2003-08" schemaLocation="liberty-idsis-pp-v1.0.xsd
1236       "/>
1237       <xsd:annotation>
1238         <xsd:documentation>Title: Liberty ID-SIS Personal Profile Services WSDL</xsd:documentation>
1239         <xsd:documentation>
1240           The source code in this WSDL file was excerpted verbatim from:
1241
1242           Liberty Liberty ID-SIS Personal Profile Service Specification
1243           Version 1.2
1244           12th November 2003
1245
1246           Copyright (c) 2003 Liberty Alliance participants, see
1247           https://www.projectliberty.org/specs/idwsf_copyrights.html
1248         </xsd:documentation>
1249       </xsd:annotation>
1250     </xsd:schema>
1251   </types>
1252   <message name="Query">
1253     <part name="body" element="pp:Query"/>
1254   </message>
1255   <message name="QueryResponse">
1256     <part name="body" element="pp:QueryResponse"/>
1257   </message>
1258   <message name="Modify">
1259     <part name="body" element="pp:Modify"/>
1260   </message>
1261   <message name="ModifyResponse">
1262     <part name="body" element="pp:ModifyResponse"/>
1263   </message>
1264   <portType name="DataServicePort">
1265     <operation name="QueryOperation">
1266       <input message="pp:Query"/>
1267       <output message="pp:QueryResponse"/>
1268     </operation>
1269     <operation name="ModifyOperation">
1270       <input message="pp:Modify"/>
1271       <output message="pp:ModifyResponse"/>
1272     </operation>
1273   </portType>
1274 </wsdl:definitions>
1275
1276
1277
```


1278 References

1279 Normative

- 1280 [LibertyBindProf] Cantor, Scott, Kemp, John , eds. "Liberty ID-FF Bindings and Profiles Specification," Version 1.2,
1281 Liberty Alliance Project (12 November 2003). <http://www.projectliberty.org/specs>
- 1282 [LibertyDisco] Sergeant, Jonathan, eds. "Liberty ID-WSF Discovery Service Specification," Version 1.0, Liberty
1283 Alliance Project (12 November 2003). <http://www.projectliberty.org/specs>
- 1284 [LibertyDST] Kainulainen, Jukka, Ranganathan, Aravindan, eds. "Liberty ID-WSF Data Services Template Specifi-
1285 cation," Version 1.0, Liberty Alliance Project (12 November 2003). <http://www.projectliberty.org/specs>
- 1286 [LibertyInteract] Aarts, Robert, eds. "Liberty ID-WSF Interaction Service Specification," Version 1.0, Liberty Alliance
1287 Project (12 November 2003). <http://www.projectliberty.org/specs>
- 1288 [LibertyProtSchema] Cantor, Scott, Kemp, John, eds. "Liberty ID-FF Protocols and Schema Specification," Version
1289 1.2, Liberty Alliance Project (12 November 2003). <http://www.projectliberty.org/specs>
- 1290 [LibertyReg] Kemp, John, eds. "Liberty Enumeration Registry Governance," Version 1.0, Liberty Alliance Project (12
1291 November 2003). <http://www.projectliberty.org/specs>
- 1292 [LibertySecMech] Ellison, Gary, eds. "Liberty ID-WSF Security Mechanisms," Version 1.0, Liberty Alliance Project
1293 (12 November 2003). <http://www.projectliberty.org/specs>
- 1294 [LibertySOAPBinding] Hodges, Jeff, Aarts, Robert, eds. " Liberty ID-WSF SOAP Binding Specification ," Version
1295 1.0, Liberty Alliance Project (12 November 2003). <http://www.projectliberty.org/specs>
- 1296 [RFC2119] Bradner, S., eds. "Key words for use in RFCs to Indicate Requirement Levels," RFC 2119, The Internet
1297 Engineering Task Force (March 1997). <ftp://ftp.rfc-editor.org/in-notes/rfc2119.txt>
- 1298 [RFC3275] Eastlake , D., Reagle, J., Solo, D., eds. (March 2002). "(Extensible Markup Language) XML-
1299 Signature Syntax and Processing," RFC 3275, The Internet Engineering Task Force [http://www.rfc-](http://www.rfc-editor.org/rfc/rfc3270.txt)
1300 [editor.org/rfc/rfc3270.txt](http://www.rfc-editor.org/rfc/rfc3270.txt)
- 1301 [Schema1] Thompson, H.S., Beech, D., Maloney, M., Mendleson, N., eds. (May 2002). "XML Schema Part 1:
1302 Structures," Recommendation, World Wide Web Consortium <http://www.w3.org/TR/xmlschema-1/>
- 1303 [XPath] Clark , J., DeRose , S., eds. (16 November 1999). "XML Path Language (XPath) Version 1.0 ,"
1304 Recommendation, W3C <http://www.w3.org/TR/xpath> [August 2003].
- 1305 [XML] Bray, T., Paoli, J., Sperberg-McQueen, C.M., Maler, Eve, eds. (Oct 2000). "Extensible
1306 Markup Language (XML) 1.0 (Second Edition)," Recommendation, World Wide Web Consortium
1307 <http://www.w3.org/TR/2000/REC-xml-20001006>

1308 Informative

- 1309 [LibertyIDSISProfilesGuide] Wason, Tom, eds. "Liberty ID-SIS Personal and Employee Profiles Services Guidelines,"
1310 Version 1.0, Liberty Alliance Project (). <http://www.projectliberty/specs>
- 1311 [LibertyIDWSFGuide] Weitzel, David, eds. "Liberty ID-WSF Implementation Guidelines," Version 1.0, Liberty
1312 Alliance Project (). <http://www.projectliberty.org/specs/>
- 1313 [LibertyIDWSFOverview] Tourzan, Johnathan, eds. "Liberty ID-WSF Architecture Overview," Version 1.0, Liberty
1314 Alliance Project (). <http://www.projectliberty/specs>
- 1315 [LibertyIDFFOverview] Wason, Thomas, eds. "Liberty ID-FF Architecture Overview," Version 1.2, Liberty Alliance
1316 Project (12 November 2003). <http://www.projectliberty.org/specs>