



# Liberty ID-WSF 2.0 Static Conformance Requirements

Version:

1.0-errata-v1.0

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**Abstract:**

Defines the static conformance requirements for the Liberty Alliance ID-WSF 2.0 specifications.

**Filename:** liberty-idwsf-2.0-scr-1.0-diff-v1.0.pdf

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## 92 1. Overview

93 Static conformance requirements (SCR) describe features that are mandatory and optional for implementations con-  
94 forming to the Liberty Alliance Identity Web Service Framework (ID-WSF) Specifications:

- 95 • [LibertySOAPBinding \(v2.0\)](#)
- 96 • [LibertySecMech \(v2.0\)](#)
- 97 • [LibertySecMech20SAML \(v2.0\)](#)
- 98 • [LibertyDisco \(v2.0\)](#)
- 99 • [LibertyInteract \(v2.0\)](#)
- 100 • [LibertyPAOS \(v2.0\)](#)
- 101 • [LibertyAuthn \(v2.0\)](#)
- 102 • [LibertyClientProfiles \(v2.0\)](#)
- 103 • [LibertyPeopleService \(v1.0\)](#)

104 This document defines these requirements. This is a normative document with several non-normative explanatory  
105 sections.

### 106 1.1. Framework Version

107 This specification defines framework version 2.0 (see SOAP Binding Framework header, as described in [[Liberty-](#)  
108 [SOAPBinding](#)]).

### 109 1.2. Definitions and Motivation

110 The Liberty specifications define a large number of features and variations. Applications often do not require all the  
111 features within a specification. It is also possible that implementations may not be able to implement all the features.  
112 In these cases, it may be desirable to partition the specifications into subsets of functionality. A profile is a subset of  
113 the overall specifications that includes all of the functionality necessary to satisfy the requirements of a particular  
114 community of users. This document identifies several Liberty conformance profiles based on subsets of these speci-  
115 fications according to the following guidelines:

- 116 • The number of conformance profiles should be kept small.
- 117 • The profiles should correspond to the major roles within the specifications: Web Service Consumer (WSC), Web  
118 Service Provider (WSP), Identity Provider (IdP), Discovery Service (DS), Interaction Service (IS), and People  
119 Service (PS).
- 120 • The SCR should distinguish between software implementations and deployments. Allow deployments to optionally  
121 configure features that are mandatory in the conformance profiles.
- 122 • The SCR should place more stringent requirements on service providers as compared with service consumers to  
123 promote interoperability.
- 124 • Implementations conforming to one (or more) profiles should be able to interoperate with another conforming  
125 implementation of a complementary profile.

126 The resulting profiles are described below by means of tables indicating mandatory and optional features, with refer-  
127 ences to the appropriate sections of the specification documents.

### 128 **1.3. Notation**

129 The key words "**MUST**," "**MUST NOT**," "**REQUIRED**," "**SHALL**," "**SHALL NOT**," "**SHOULD**," "**SHOULD NOT**,"  
130 "**RECOMMENDED**," "**MAY**," and "**OPTIONAL**" in this specification are to be interpreted as described in  
131 [RFC2119]: "they **MUST** only be used where it is actually required for interoperation or to limit behavior which has  
132 potential for causing harm (e.g., limiting retransmissions)."

133 The normative sections of this document are identified with special formatting as indicated here:

134 **EXAMPLE** This is an example of the format of the normative requirements. Each requirement is identified  
135 by a requirement identifier ("**EXAMPLE**" in this example).

136 **2. Conformance Profiles**

137 **2.1. Profile Matrix**

138 The following tables summarize the features that comprise the conformance profiles. The detailed specifications for  
139 each profile follow in subsequent sections.

140 **Table 1. Abstract Profile Matrix**

<b>Feature</b>	<b>WSC Com- mon</b>	<b>WSP Com- mon</b>
Basic SOAP Binding	MUST	MUST
Basic Security Mechanisms	MUST	MUST

141

**Table 2. Concrete Profile Matrix**

Feature	SAM L SP WSC	LUA D WSC	SAM L SP WSP	LUA D WSP	SAM L IdP	ID- WSF IdP	DS	PS	IS
WSC Common	MUST	MUST							
WSP Common			MUST	MUST			MUST	MUST	MUST
SAML SP WSC SOAP Binding	MUST								
SAML SP WSC Se- curity Mechanisms	MUST								
LUAD		MUST		MUST			OPT	OPT	OPT
SAML DS Bootstrap	MUST				MUST				
Authentication Serv- ice		MUST				MUST			
SSO Service	OPT	OPT				MUST			
Identity Mapping Service						MUST			
Service Registration			OPT	OPT			MUST		
Service Discovery	MUST	MUST					MUST		
Service Invocation	MUST	MUST							
Group & User Man- agement	OPT	OPT						MUST	
Invitations	OPT	OPT						OPT	
Interaction Service									MUST

142 **2.2. Web Service Consumer (WSC) Common Conformance Profile**

143 This section defines the common conformance requirements for all Web Service Consumer Profiles.

144 **2.2.1. Basic SOAP Binding**

145 Conforming WSCs MUST support the following SOAP Binding features

146 **wsc-soap-** The WSC MUST conform to the requirements for sending SOAP-bound ID-\* messages and  
 147 **bind-001** receiving their responses, as described in sections 4 and 5 of [LibertySOAPBinding]. This in-  
 148 cludes support for sending and processing all required headers, and for failing if any unsupported  
 149 Header is received with a `mustUnderstand` attribute set to true.

150 **wsc-soap-** The WSC MUST support processing of the EndpointUpdate Header, as described in [Liberty-  
151 **bind-002** [SOAPBinding](#)]. Specifically, the WSC MUST (a) be able to retry an operation as specified by  
152 a EndpointUpdate Header received in combination with an EndpointMoved Fault and (b) be  
153 able to accept new credentials for use in subsequent operations as specified by a EndpointUpdate  
154 Header received in combination with a normal response Body.

## 155 2.2.2. Basic Security Mechanisms

156 Conforming WSCs MUST be able to construct and send ID-WSF messages using the following Security Mecha-  
157 nisms:

158 **wsc-sec-** The WSC MUST be able to construct and send ID-WSF messages using (at a minimum)  
159 **mech-001**

- 160 • urn:liberty:security:2003-08:null:null
- 161 • urn:liberty:security:2005-02:null:Bearer
- 162 • urn:liberty:security:2003-08:TLS:null
- 163 • urn:liberty:security:2005-02:TLS:Bearer

163 as described in section 6 of [[LibertySecMech](#)].

## 164 2.3. Web Service Provider (WSP) Common Conformance Profile

165 This section defines the common conformance requirements for all Web Service Provider Profiles.

### 166 2.3.1. Basic SOAP Binding

167 Conforming WSPs MUST support the following SOAP Binding features

168 **wsp-soap-** The WSP MUST conform to the requirements for receiving SOAP-bound ID-\* messages and  
169 **bind-001** sending their responses, as described in sections 4 and 5 of [[LibertySOAPBinding](#)]. This includes  
170 support for sending and processing all required headers, and for failing if any unsupported  
171 Header is received with a `mustUnderstand` attribute set to true.

172 **wsp-soap-** The WSP MUST process the UserInteraction Header, as described in [[LibertySOAPBinding](#)].  
173 **bind-002**

### 173 2.3.2. Basic Security Mechanisms

174 Conforming WSPs MUST be able to receive and process ID-WSF messages using the following Security Mechanisms

175 **wsp-sec-** The WSP MUST be able to receive and process ID-WSF messages using (at a minimum)  
176 **mech-001**

- 177 • urn:liberty:security:2003-08:null:null
- 178 or
- 179 • urn:liberty:security:2003-08:TLS:null
- 180 • urn:liberty:security:2005-02:null:Bearer
- 181 • urn:liberty:security:2005-02:TLS:Bearer
- or

- 182                                   • urn:liberty:security:2006-08:null:SAMLV2
- 183                                   • urn:liberty:security:2006-08:TLS:SAMLV2
- 184                                   • urn:liberty:security:2006-08:ClientTLS:peerSAMLV2
- 185                                   as described in section 6 of [LibertySecMech] and section 4 of [LibertySecMech20SAML].

## 186 **2.4. SAML Service Provider (SP) Web Service Consumer (WSC) Con-**

## 187 **formance Profile**

188 This section defines the requirements for the SAML SP Web Service Consumer Profile.

### 189 **2.4.1. WSC Common**

190 Conforming SAML SP WSCs MUST support the Common WSC Profile

### 191 **2.4.2. SAML SP WSC SOAP Binding**

192 Conforming SAML SP WSCs MUST support the following additional SOAP Binding features:

193 **samlsp-wsc-**           The SAML SP WSC MUST send the SOAP Binding Sender Header, as described in [Liberty-  
194 **soapbind-001**           **SOAPBinding**].

195 **samlsp-wsc-**           SAML SP WSCs MUST support redirect based user interaction, as described in section 7 of  
196 **soapbind-002**           **[LibertySOAPBinding]**.

### 197 **2.4.3. SAML SP WSC Security Mechanisms**

198 Conforming SAML SP WSCs MUST be able to construct and send ID-WSF messages using the following additional  
199 Security Mechanisms:

200 **samlsp-wsc-sec-**       The WSC MUST be able to construct and send ID-WSF messages using  
201 **mech-001**

- 202                                   • urn:liberty:security:2006-08:null:SAMLV2
- 203                                   • urn:liberty:security:2006-08:TLS:SAMLV2
- 204                                   • **urn:liberty:security:2006-08:ClientTLS:peerSAMLV2**

204                                   as described in section 6 of [LibertySecMech] and section 4 of [LibertySecMech20SAML].

### 205 **2.4.4. SAML DS Bootstrap**

206 Conforming SAML SP WSCs MUST support Discovery Service Bootstrap:

207 **samlsp-wsc-**           The SAML SP WSC MUST support extraction of the Principal's's Discovery Service EPR from  
208 **bootstrap-001**           the SAML assertion authenticating the Principal, as described in section 4 of [LibertyDisco].

### 209 **2.4.5. SSO Service**

210 Conforming SAML SP WSCs MAY support obtaining SAML tokens from an IdP:

211 **samlsp-wsc-**           The SAML SP WSC MAY support invocation of an SSO Service using the SAML Token Service  
212 **ssosvc-001**           Profile, as described in section 6.4 of [LibertyAuthn].

## 213 2.4.6. Service Discovery and Service Invocation

214 Conforming SAML SP WSCs MUST support discovery and invocation of at least one ID-WSF service:

215 **samlsp-wsc-dis-** The SAML SP WSC MUST support querying and invocation of at least one ID-WSF service  
216 **cinvk-001** registered in a Principal's Discovery Service (samlsp-wsc-bootstrap-001), as described in [Lib-  
217 [ertyDisco](#)].

218 **samlsp-wsc-dis-** The SAML SP WSC MAY support discovery and invocation of PAOS services, as described in  
219 **cinvk-002** [[LibertyPAOS](#)].

## 220 2.4.7. Group & User Management and Invitations

221 Conforming SAML SP WSCs MAY support management of groups & users and invitations in a People Service:

222 **samlsp-wsc-peo-** The SAML SP WSC MAY support management of groups **and** users, as described in sections  
223 **ple-001** [3.9-3.20](#) of [[LibertyPeopleService](#)].

224 **samlsp-wsc-peo-** The SAML SP WSC MAY support invitations, as described in section 4 of [[LibertyPeopleSer-](#)  
225 **ple-002** [vice](#)].

## 226 2.5. Liberty User Agent or Device (LUAD) Web Service Consumer (WSC) 227 Conformance Profile

228 This section defines the requirements for the LUAD Web Service Consumer Profile.

### 229 2.5.1. WSC Common

230 Conforming LUAD WSCs MUST support the Common WSC Profile

### 231 2.5.2. LUAD

232 Conforming LUAD WSCs MUST support the LUAD-WSC profile:

233 **luad-wsc-** The WSC MUST support LUAD-WSC profile, as described in section 3 of [[LibertyClientPro-](#)  
234 **luad-001** [files](#)].

### 235 2.5.3. Authentication Service

236 Conforming LUAD WSCs MUST support authentication via an IdP:

237 **luad-wsc-** The LUAD WSC MUST support invocation of an authentication service, as described in section  
238 **authsvc-001** 5 of [[LibertyAuthn](#)].

239 **luad-wsc-** The LUAD WSC MUST support the PLAIN and CRAM-MD5 authentication mechanisms, as  
240 **authsvc-002** referenced in appendix A of [[LibertyAuthn](#)].

241 **luad-wsc-** The LUAD WSC MUST support the password transforms Truncation, Lowercase, Uppercase,  
242 **authsvc-003** and Select, as described in appendix B of [[LibertyAuthn](#)].

### 243 2.5.4. SSO Service

244 Conforming LUAD WSCs MAY support obtaining SAML tokens from an IdP:

245 **luad-wsc-** The LUAD WSC MAY support invocation of an SSO Service using the SAML Token Service  
246 **ssosvc-001** Profile, as described in section 6 of [LibertyAuthn].

247 **luad-wsc-** The LUAD WSC MAY support invocation of an SSO Service using the Enhanced Client or  
248 **ssosvc-002** Proxy Profile, as described in section 6 of [LibertyAuthn].

## 249 **2.5.5. Service Discovery and Service Invocation**

250 Conforming LUAD WSCs MUST support discovery and invocation of at least one ID-WSF service registered in a  
251 Principal's Discovery Service:

252 **luad-wsc-dis-** The LUAD WSC MUST support querying the Principal's Discovery Service to obtain the EPR  
253 **cinvk-001** for at least one ID-WSF service, as described in section 3.3 of [LibertyDisco].

254 **luad-wsc-dis-** The LUAD WSC MUST support invocation of at least one discovered ID-WSF service.  
255 **cinvk-002**

## 255 **2.5.6. Group & User Management and Invitations**

256 Conforming LUAD WSCs MAY support management of groups & users and invitations in a People Service:

257 **luad-wsc-peo-** The LUAD WSC MAY support management of groups and users, as described in sections  
258 **ple-001** 3.9-3.20 of [LibertyPeopleService].

259 **luad-wsc-peo-** The LUAD WSC MAY support invitations, as described in section 4 of [LibertyPeopleSer-  
260 **ple-002** vice].

## 261 **2.6. SAML Service Provider (SP) Web Service Provider (WSP) Conform-** 262 **ance Profile**

263 This section defines the requirements for the SAML SP Web Service Provider Profile.

### 264 **2.6.1. WSP Common**

265 Conforming SAML SP WSPs MUST support the Common WSP Profile

### 266 **2.6.2. Service Registration**

267 Conforming SAML SP WSPs MAY support registration with a Principal's Discovery Service:

268 **samlsp-wsp-reg-** The SAML SP WSP MAY invoke the DS at a Principal's Discovery Service to register itself,  
269 **istration-001** as described in [LibertyDisco]. Note that the SAML SP WSP takes on the role of a WSC in  
270 making DS calls, and so is bound by all of the requirements specified in the applicable WSC  
271 profile.

## 272 **2.7. Liberty User Agent or Device (LUAD) Web Service Provider (WSP)** 273 **Conformance Profile**

274 This section defines the requirements for the LUAD Web Service Provider Profile.

### 275 **2.7.1. WSP Common**

276 Conforming LUAD WSPs MUST support the Common WSP Profile

## 277 **2.7.2. LUAD**

278 Conforming LUAD WSPs MUST support the LUAD-WSP profile:

279 **luad-wsp-** The LUAD WSP MUST support the LUAD-WSP profile, as described in section 4 of [[LibertyClientProfiles](#)].  
280 **luad-001**

## 281 **2.7.3. Service Registration**

282 Conforming LUAD WSPs MAY support registration with a Principal's Discovery Service or advertisement and invocation via PAOS:  
283

284 **luad-wsp-regis-** The LUAD WSP MAY invoke a Principal's Discovery Service to register itself, as described in  
285 **tration-001** [[LibertyDisco](#)]. Note that the LUAD WSP takes on the role of a WSC in making DS calls, and  
286 so is bound by all of the requirements specified in the applicable WSC profile.

287 **luad-wsp-regis-** The LUAD WSP MAY support advertisement and invocation via PAOS, as described in [[LibertyPAOS](#)].  
288 **tration-002**

## 289 **2.8. SAML Identity Provider (IdP) Conformance Profile**

290 This section defines the conformance requirements for the SAML Identity Provider Profile. By supporting this profile,  
291 SAML IdPs enable SAML SP WSCs.

### 292 **2.8.1. SAML DS Bootstrap**

293 Conforming SAML IdPs MUST support Discovery Service Bootstrap:

294 **samlidp-boot-** The SAML IdP MUST include the Principal's Discovery Service EPR in SAML assertions, as  
295 **strap-001** described in section 4 of [[LibertyDisco](#)].

## 296 **2.9. ID-WSF Identity Provider (IdP) Conformance Profile**

297 This section defines the conformance requirements for the ID-WSF Identity Provider Profile. By supporting this profile,  
298 IdPs enable LUAD WSCs.

### 299 **2.9.1. Authentication Service**

300 Conforming IdPs MUST support authentication requests:

301 **idwsfidp-** The IdP MUST respond to authentication requests, as described in section 5 of [[LibertyAuthn](#)].  
302 **authsvc-001**

302 **idwsfidp-** The IdP MUST support the PLAIN and CRAM-MD5 authentication mechanisms, as referenced  
303 **authsvc-002** in appendix A of [[LibertyAuthn](#)].

### 304 **2.9.2. SSO Service**

305 Conforming IdPs MUST support sso requests:

306 **idwsfidp-** The IdP MUST respond to sso requests, as described in section 6 of [[LibertyAuthn](#)].  
307 **ssosvc-001**

### 307 **2.9.3. Identity Mapping Service**

308 Conforming IdPs MUST support identity mapping requests:

309 **idwsfidp-** The IdP MUST respond to identity mapping requests, as described in section 7 of [LibertyAuthn].  
310 **imsvc-001**

## 311 2.10. Discovery Service (DS) Conformance Profile

312 This section defines the conformance requirements for the Discovery Service Profile.

### 313 2.10.1. WSP Common

314 Conforming DSs MUST support the Common WSP Profile

### 315 2.10.2. LUAD

316 Conforming DSs MAY support the LUAD-DS profile:

317 **ds-luad-001** The DS MAY support LUAD-DS profile, as described in section 5 of [LibertyClientProfiles].

### 318 2.10.3. Service Registration and Discovery

319 Conforming DSs MUST support discovery service requests:

320 **ds-discovery-001** The DS MUST respond to discovery service requests, as described in section 3 of [LibertyDis-  
321 co].

## 322 2.11. People Service (PS) Conformance Profile

323 This section defines the conformance requirements for the People Service Profile.

### 324 2.11.1. WSP Common

325 Conforming PSs MUST support the Common WSP Profile

### 326 2.11.2. LUAD

327 Conforming PSs MAY support the LUAD-WSP profile:

328 **ps-luad-001** The PS MAY support LUAD-WSP profile, as described in section 4 of [LibertyClientPro-  
329 files].

### 330 2.11.3. Group & User Management and Invitations

331 Conforming PSs MUST support the following group & user management features:

332 **ps-people-001** The PS MUST support group and user management, as described in sections 3.9-3.20 of [Lib-  
333 ertyPeopleService]

334 Conforming PSs MAY support the following invitation features:

335 **ps-people-002** The PS MAY support user invitations as described in section 4 of [LibertyPeopleService].

## 336 2.12. Interaction Service (IS) Conformance Profile

337 This section defines the conformance requirements for the Interaction Service Profile.

338 **2.12.1. WSP Common**

339 Conforming ISs MUST support the Common WSP Profile

340 **2.12.2. LUAD**

341 Conforming ISs MAY support the LUAD-WSP profile:

342 **is-luad-001** The IS MAY support LUAD-WSP profile, as described in section 4 of [LibertyClientProfiles].

343 **2.12.3. Interaction Service**

344 Conforming ISs MUST support interaction service requests:

345 **is-interac-  
tion-001** The IS MUST respond to interaction requests, as described in [LibertyInteract].

## 346 References

### 347 Normative

- 348 [LibertySOAPBinding] Hodges, Jeff, Kemp, John, Aarts, Robert, Whitehead, Greg, Madsen, Paul, eds. "Liberty ID-  
349 WSF SOAP Binding Specification," Version 2.0-errata-v1.0, Liberty Alliance Project (21 April, 2007). [http://](http://www.projectliberty.org/specs)  
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