



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-errata-v1.0.pdf

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1. Overview

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

- [LibertySOAPBinding \(v2.0\)](#)
- [LibertySecMech \(v2.0\)](#)
- [LibertySecMech20SAML \(v2.0\)](#)
- [LibertyDisco \(v2.0\)](#)
- [LibertyInteract \(v2.0\)](#)
- [LibertyPAOS \(v2.0\)](#)
- [LibertyAuthn \(v2.0\)](#)
- [LibertyClientProfiles \(v2.0\)](#)
- [LibertyPeopleService \(v1.0\)](#)

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

1.1. Framework Version

This specification defines framework version 2.0 (see SOAP Binding Framework header, as described in [[LibertySOAPBinding](#)]).

1.2. Definitions and Motivation

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

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

126 The resulting profiles are described below by means of tables indicating mandatory and optional features, with
127 references 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 [RFC2119]:
131 "they MUST only be used where it is actually required for interoperation or to limit behavior which has potential for
132 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).

2. Conformance Profiles

2.1. Profile Matrix

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

Table 1. Abstract Profile Matrix

Feature	WSC Common	WSP Common
Basic SOAP Binding	MUST	MUST
Basic Security Mechanisms	MUST	MUST

Table 2. Concrete Profile Matrix

Feature	SAML SP WSC	LUAD WSC	SAML SP WSP	LUAD WSP	SAML 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 Security Mechanisms	MUST								
LUAD		MUST		MUST			OPT	OPT	OPT
SAML DS Bootstrap	MUST				MUST				
Authentication Service		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 Management	OPT	OPT						MUST	
Invitations	OPT	OPT						OPT	
Interaction Service									MUST

2.2. Web Service Consumer (WSC) Common Conformance Profile

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

2.2.1. Basic SOAP Binding

Conforming WSCs MUST support the following SOAP Binding features

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

150 **wsc-soapbind-002** The WSC MUST support processing of the EndpointUpdate Header, as described in [[Liberty](#)
151 [SOAPBinding](#)]. Specifically, the WSC MUST (a) be able to retry an operation as specified
152 by 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 EndpointUp-
154 date 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 Mechanisms:

157 **wsc-secmech-001** The WSC MUST be able to construct and send ID-WSF messages using (at a minimum)

- 158 • urn:liberty:security:2003-08:null:null
- 159 • urn:liberty:security:2005-02:null:Bearer
- 160 • urn:liberty:security:2003-08:TLS:null
- 161 • urn:liberty:security:2005-02:TLS:Bearer

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

163 2.3. Web Service Provider (WSP) Common Conformance Profile

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

165 2.3.1. Basic SOAP Binding

166 Conforming WSPs MUST support the following SOAP Binding features

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

171 **wsp-soapbind-002** The WSP MUST process the UserInteraction Header, as described in [[LibertySOAPBinding](#)].

172 2.3.2. Basic Security Mechanisms

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

174 **wsp-secmech-001** The WSP MUST be able to receive and process ID-WSF messages using (at a minimum)

- 175 • urn:liberty:security:2003-08:null:null
- 176 • urn:liberty:security:2003-08:TLS:null

177 or

178 • urn:liberty:security:2005-02:null:Bearer

179 • urn:liberty:security:2005-02:TLS:Bearer

180 or

181 • urn:liberty:security:2006-08:null:SAMLV2

182 • urn:liberty:security:2006-08:TLS:SAMLV2

183 • urn:liberty:security:2006-08:ClientTLS:peerSAMLV2

184 as described in section 6 of [[LibertySecMech](#)] and section 4 of [[LibertySecMech20SAML](#)].

185 **2.4. SAML Service Provider (SP) Web Service Consumer (WSC)** 186 **Conformance Profile**

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

188 **2.4.1. WSC Common**

189 Conforming SAML SP WSCs MUST support the Common WSC Profile

190 **2.4.2. SAML SP WSC SOAP Binding**

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

192 **samlsp-wsc-soapbind-001** The SAML SP WSC MUST send the SOAP Binding Sender Header, as described in
193 [[LibertySOAPBinding](#)].

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

196 **2.4.3. SAML SP WSC Security Mechanisms**

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

199 **samlsp-wsc-secmech-001** The WSC MUST be able to construct and send ID-WSF messages using

200 • urn:liberty:security:2006-08:null:SAMLV2

201 • urn:liberty:security:2006-08:TLS:SAMLV2

202 • urn:liberty:security:2006-08:ClientTLS:peerSAMLV2

203 as described in section 6 of [[LibertySecMech](#)] and section 4 of [[LibertySecMech20SAML](#)].

204 **2.4.4. SAML DS Bootstrap**

205 Conforming SAML SP WSCs MUST support Discovery Service Bootstrap:

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

209 **2.4.5. SSO Service**

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

211 **samlsp-wsc-ssosvc-001** The SAML SP WSC MAY support invocation of an SSO Service using the SAML Token
212 Service 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-discinvk-001** The SAML SP WSC MUST support querying and invocation of at least one ID-WSF
216 service registered in a Principal's Discovery Service (samlsp-wsc-bootstrap-001), as described
217 in [[LibertyDisco](#)].

218 **samlsp-wsc-discinvk-002** The SAML SP WSC MAY support discovery and invocation of PAOS services, as
219 described in [[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-people-001** The SAML SP WSC MAY support management of groups and users, as described in
223 sections 3.9-3.20 of [[LibertyPeopleService](#)].

224 **samlsp-wsc-people-002** The SAML SP WSC MAY support invitations, as described in section 4 of [[LibertyPeo-
225 pleService](#)].

226 **2.5. Liberty User Agent or Device (LUAD) Web Service Consumer 227 (WSC) 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-luad-001** The WSC MUST support LUAD-WSC profile, as described in section 3 of [[LibertyClientPro-
234 files](#)].

2.5.3. Authentication Service

Conforming LUAD WSCs MUST support authentication via an IdP:

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

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

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

2.5.4. SSO Service

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

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

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

2.5.5. Service Discovery and Service Invocation

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

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

luad-wsc-discinvk-002 The LUAD WSC MUST support invocation of at least one discovered ID-WSF service.

2.5.6. Group & User Management and Invitations

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

luad-wsc-people-001 The LUAD WSC MAY support management of groups and users, as described in sections 3.9-3.20 of [[LibertyPeopleService](#)].

luad-wsc-people-002 The LUAD WSC MAY support invitations, as described in section 4 of [[LibertyPeopleService](#)].

261 **2.6. SAML Service Provider (SP) Web Service Provider (WSP)** 262 **Conformance 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-registration-001** The SAML SP WSP MAY invoke the DS at a Principal's Discovery Service to
269 register itself, as described in [[LibertyDisco](#)]. Note that the SAML SP WSP takes on the role of
270 a WSC in making DS calls, and so is bound by all of the requirements specified in the applicable
271 WSC 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-luad-001** The LUAD WSP MUST support the LUAD-WSP profile, as described in section 4 of
280 [[LibertyClientProfiles](#)].

281 **2.7.3. Service Registration**

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

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

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

2.8. SAML Identity Provider (IdP) Conformance Profile

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

2.8.1. SAML DS Bootstrap

Conforming SAML IdPs MUST support Discovery Service Bootstrap:

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

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

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

2.9.1. Authentication Service

Conforming IdPs MUST support authentication requests:

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

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

2.9.2. SSO Service

Conforming IdPs MUST support sso requests:

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

2.9.3. Identity Mapping Service

Conforming IdPs MUST support identity mapping requests:

idwsfidp-imsvc-001 The IdP MUST respond to identity mapping requests, as described in section 7 of [[LibertyAuthn](#)].

2.10. Discovery Service (DS) Conformance Profile

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

2.10.1. WSP Common

Conforming DSs MUST support the Common WSP Profile

2.10.2. LUAD

Conforming DSs MAY support the LUAD-DS profile:

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

319 **2.10.3. Service Registration and Discovery**

320 Conforming DSs MUST support discovery service requests:

321 **ds-discovery-001** The DS MUST respond to discovery service requests, as described in section 3 of [[Liberty-](#)
322 [Disco](#)].

323 **2.11. People Service (PS) Conformance Profile**

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

325 **2.11.1. WSP Common**

326 Conforming PSs MUST support the Common WSP Profile

327 **2.11.2. LUAD**

328 Conforming PSs MAY support the LUAD-WSP profile:

329 **ps-luad-001** The PS MAY support LUAD-WSP profile, as described in section 4 of [[LibertyClientProfiles](#)].

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
333 [[LibertyPeopleService](#)]

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-interaction-001** The IS MUST respond to interaction requests, as described in [[LibertyInteract](#)].

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