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.

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Contents

1. Overview ........................................................................................................ 5
   1.1. Framework Version ................................................................................. 5
   1.2. Definitions and Motivation ..................................................................... 5
   1.3. Notation .................................................................................................. 5
2. Conformance Profiles ......................................................................................... 7
   2.1. Profile Matrix .......................................................................................... 7
   2.2. Web Service Consumer (WSC) Common Conformance Profile .............. 7
       2.2.1. Basic SOAP Binding ....................................................................... 7
       2.2.2. Basic Security Mechanisms ......................................................... 8
   2.3. Web Service Provider (WSP) Common Conformance Profile .............. 8
       2.3.1. Basic SOAP Binding ....................................................................... 8
       2.3.2. Basic Security Mechanisms ......................................................... 8
   2.4. SAML Service Provider (SP) Web Service Consumer (WSC) Conformance Profile ........................................................................................................ 9
       2.4.1. WSC Common ............................................................................... 9
       2.4.2. SAML SP WSC SOAP Binding ...................................................... 9
       2.4.3. SAML SP WSC Security Mechanisms .......................................... 9
       2.4.4. SAML DS Bootstrap ..................................................................... 9
       2.4.5. SSO Service .................................................................................. 9
       2.4.6. Service Discovery and Service Invocation ................................... 10
       2.4.7. Group & User Management and Invitations .................................. 10
   2.5. Liberty User Agent or Device (LUAD) Web Service Consumer (WSC) Conformance Profile ............................................................... 10
       2.5.1. WSC Common ............................................................................... 10
       2.5.2. LUAD .......................................................................................... 10
       2.5.3. Authentication Service ................................................................... 10
       2.5.4. SSO Service .................................................................................. 11
       2.5.5. Service Discovery and Service Invocation ................................... 11
       2.5.6. Group & User Management and Invitations .................................. 11
   2.6. SAML Service Provider (SP) Web Service Provider (WSP) Conformance Profile ........................................................................................................ 11
       2.6.1. WSP Common ............................................................................... 11
       2.6.2. Service Registration ...................................................................... 11
   2.7. Liberty User Agent or Device (LUAD) Web Service Provider (WSP) Conformance Profile ............................................................... 12
       2.7.1. WSP Common ............................................................................... 12
       2.7.2. LUAD .......................................................................................... 12
       2.7.3. Service Registration ...................................................................... 12
   2.8. SAML Identity Provider (IdP) Conformance Profile .............................. 12
       2.8.1. SAML DS Bootstrap ..................................................................... 12
   2.9. ID-WSF Identity Provider (IdP) Conformance Profile ............................ 13
       2.9.1. Authentication Service ................................................................... 13
       2.9.2. SSO Service .................................................................................. 13
       2.9.3. Identity Mapping Service .............................................................. 13
   2.10. Discovery Service (DS) Conformance Profile .......................................... 13
       2.10.1. WSP Common ............................................................................ 13
       2.10.2. LUAD ........................................................................................ 13
       2.10.3. Service Registration and Discovery .......................................... 13
   2.11. People Service (PS) Conformance Profile .............................................. 14
       2.11.1. WSP Common ............................................................................ 14
       2.11.2. LUAD ........................................................................................ 14
       2.11.3. Group & User Management and Invitations .................................. 14
   2.12. Interaction Service (IS) Conformance Profile .......................................... 14
       2.12.1. WSP Common ............................................................................ 14
       2.12.2. LUAD ........................................................................................ 14
       2.12.3. Interaction Service .......................................................... 14

Liberty Alliance Project

1
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.
The resulting profiles are described below by means of tables indicating mandatory and optional features, with references to the appropriate sections of the specification documents.

### 1.3. Notation

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

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

**EXAMPLE** This is an example of the format of the normative requirements. Each requirement is identified 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>
<thead>
<tr>
<th>Feature</th>
<th>WSC Common</th>
<th>WSP Common</th>
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<tbody>
<tr>
<td>Basic SOAP Binding</td>
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<td>MUST</td>
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<tr>
<td>Basic Security Mechanisms</td>
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<tr>
<th>Feature</th>
<th>SAML SP WSC</th>
<th>LUAD WSP</th>
<th>SAML SP WSP</th>
<th>LUAD WSP</th>
<th>SAML IdP</th>
<th>ID-WSF IdP</th>
<th>DS</th>
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<td>Interaction Service</td>
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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
The WSC MUST conform to the requirements for sending SOAP-bound ID-* messages and receiving their responses, as described in sections 4 and 5 of [LibertySOAPBinding]. This includes support for sending and processing all required headers, and for failing if any unsupported Header is received with a mustUnderstand attribute set to true.

The WSC MUST support processing of the EndpointUpdate Header, as described in [LibertySOAPBinding]. Specifically, the WSC MUST (a) be able to retry an operation as specified by an EndpointUpdate Header received in combination with an EndpointMoved Fault and (b) be able to accept new credentials for use in subsequent operations as specified by an EndpointUpdate Header received in combination with a normal response Body.

### 2.2.2. Basic Security Mechanisms
Conforming WSCs MUST be able to construct and send ID-WSF messages using the following Security Mechanisms:

- **wsc-secmech-001** The WSC MUST be able to construct and send ID-WSF messages using (at a minimum)
  
  - `urn:liberty:security:2003-08:TLS:null`

  as described in section 6 of [LibertySecMech].

### 2.3. Web Service Provider (WSP) Common Conformance Profile
This section defines the common conformance requirements for all Web Service Provider Profiles.

#### 2.3.1. Basic SOAP Binding
Conforming WSPs MUST support the following SOAP Binding features

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

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

#### 2.3.2. Basic Security Mechanisms
Conforming WSPs MUST be able to receive and process ID-WSF messages using the following Security Mechanisms

- **wsp-secmech-001** The WSP MUST be able to receive and process ID-WSF messages using (at a minimum)
  
  - `urn:liberty:security:2003-08:TLS:null`
2.4. SAML Service Provider (SP) Web Service Consumer (WSC) Conformance Profile

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

2.4.1. WSC Common

Conforming SAML SP WSCs MUST support the Common WSC Profile

2.4.2. SAML SP WSC SOAP Binding

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

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

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

2.4.3. SAML SP WSC Security Mechanisms

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

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

- urn:liberty:security:2006-08:null:SAMLv2
- urn:liberty:security:2006-08:TLS:SAMLv2
- urn:liberty:security:2006-08:ClientTLS:peerSAMLv2

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

2.4.4. SAML DS Bootstrap

Conforming SAML SP WSCs MUST support Discovery Service Bootstrap:
The SAML SP WSC MUST support extraction of the Principal’s’s Discovery Service EPR from the SAML assertion authenticating the Principal, as described in section 4 of [LibertyDisco].

### 2.4.5. SSO Service

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

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

### 2.4.6. Service Discovery and Service Invocation

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

- **samlsp-wsc-discinvk-001** The SAML SP WSC MUST support querying and invocation of at least one ID-WSF service registered in a Principal’s Discovery Service (samlsp-wsc-bootstrap-001), as described in [LibertyDisco].

- **samlsp-wsc-discinvk-002** The SAML SP WSC MAY support discovery and invocation of PAOS services, as described in [LibertyPAOS].

### 2.4.7. Group & User Management and Invitations

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

- **samlsp-wsc-people-001** The SAML SP WSC MAY support management of groups and users, as described in sections 3.9-3.20 of [LibertyPeopleService].

- **samlsp-wsc-people-002** The SAML SP WSC MAY support invitations, as described in section 4 of [LibertyPeopleService].

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

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

#### 2.5.1. WSC Common

Conforming LUAD WSCs MUST support the Common WSC Profile

#### 2.5.2. LUAD

Conforming LUAD WSCs MUST support the LUAD-WSC profile:

- **luad-wsc-luad-001** The WSC MUST support LUAD-WSC profile, as described in section 3 of [LibertyClientProfiles].
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].
2.6. SAML Service Provider (SP) Web Service Provider (WSP) Conformance Profile

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

2.6.1. WSP Common

Conforming SAML SP WSPs MUST support the Common WSP Profile

2.6.2. Service Registration

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

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

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

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

2.7.1. WSP Common

Conforming LUAD WSPs MUST support the Common WSP Profile

2.7.2. LUAD

Conforming LUAD WSPs MUST support the LUAD-WSP profile:

luad-wsp-luad-001 The LUAD WSP MUST support the LUAD-WSP profile, as described in section 4 of [LibertyClientProfiles].

2.7.3. Service Registration

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

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

luad-wsp-registration-002 The LUAD WSP MAY support advertisement and invocation via PAOS, as described 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-sossvc-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:
ds-luad-001 The DS MAY support LUAD-DS profile, as described in section 5 of [LibertyClientProfiles].

2.10.3. Service Registration and Discovery

Conforming DSs MUST support discovery service requests:

ds-discovery-001 The DS MUST respond to discovery service requests, as described in section 3 of [Liberty-Disco].

2.11. People Service (PS) Conformance Profile

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

2.11.1. WSP Common

Conforming PSs MUST support the Common WSP Profile

2.11.2. LUAD

Conforming PSs MAY support the LUAD-WSP profile:

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

2.11.3. Group & User Management and Invitations

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

ps-people-001 The PS MUST support group and user management, as described in sections 3.9-3.20 of [LibertyPeopleService]

Conforming PSs MAY support the following invitation features:

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

2.12. Interaction Service (IS) Conformance Profile

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

2.12.1. WSP Common

Conforming ISs MUST support the Common WSP Profile

2.12.2. LUAD

Conforming ISs MAY support the LUAD-WSP profile:

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

2.12.3. Interaction Service

Conforming ISs MUST support interaction service requests:

is-interaction-001 The IS MUST respond to interaction requests, as described in [LibertyInteract].
References

Normative


Informative
