Services Specifications:
Realizing New Business Capabilities

Liberty Alliance Workshop

Santa Clara, CA, March 10, 2008
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1. Introduction and agenda

- Sampo Kellomäki (sampo@symlabs.com)
  - Speaking for Antonio Navarro (antonio@symlabs.com)
  - Liberty ID-SIS specifications
  - Symlabs has been active contributor in the services group
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2. ID-SIS and its place in Liberty specs

- Vertical specific implementations of the Liberty architecture
- Build on the framework
- Concrete applications that actually DO something
- ID-SIS spec can act as a profile indicating how things glue together
- ID-SIS spec can be a Service Oriented Architecture (SOA) for a vertical
- Best practices
Liberty specifications build on existing standards (SAML, SOAP, WS-Addressing, WS-Security, XML, etc.)

Liberty Federation Framework (ID-FF)
SAML 2.0

Enables identity federation and management through features such as identity/account linkage, Simplified Sign-On, and simple session management.

Liberty Identity Service Interface Specifications (ID-SIS)

Enables interoperable identity services such as personal identity profile, contact book, presence, and so on.

Liberty Web Services Framework (ID-WSF)

Provides the framework for building interoperable identity services, permissions based attribute sharing, identity service description and discovery, and the associated security profiles.

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3. Examples of ID-SIS standards

- CB - Contact Book
- CSM - Content Services Messaging (aka ID-Messaging)
- ID-DAP - Identity based Directory Access Protocol
  - with extensible data schema
- PP - Personal Profile
- EP - Employee Profile
- GeoLoc
3.1 ID-WSF infrastructure that Complements ID-SIS

- Discovery Service
- People Service (designed to connect to Contact Book)
- Accounting Service
4. Examples of ID-SIS like specs outside Liberty

- **ID-HR-XML**
  - about to be brought into Liberty Services Group
- **Medical drafts**
  - ID-SIS Personal Health Record (PHR)
  - ID-SIS Continuity of Care Record (CCR)
- **Payment service** (Fidelity research project; eBiz Mobility)
- **Calendar** (Fidelity research project)
5. Extending your capabilities

Objective  To be able to give access to your business capabilities inside a federation environment, in order to make money.
6. Why

- To be able to share them in a SAML/WS environment
- Share with partners, subcontractors, remote offices
- Composability with other providers services
- Service Oriented Architecture
7. What Liberty provides

- standards (for invocation, accounting, security)
- privacy
- security
- auditability
- extensibility
- interoperability
- discovery
- cross principal permission/sharing (people service)
7.1 What Liberty provides 2

- Vendor community
- Deployer community
  - Deployer community input to process
- Forum for getting standards done
- Interops
- Certification
- IPR framework
8. Liberty Services Process

1. Charter, gather interested parties
2. Marketing Requirements
3. Specification
4. Dissemination
   - Potential interop or certification activities
   - Potential reference implementation or open source
   - Tradeshows and PR
5. Revise and improve
8.1 Unofficial Alternative Process

1. Prototype implementation
2. Specification
3. Marketing Requirements
4. Charter
5. Rubber stamp it
8.2 Starting a New Service Specification

• Minimum 3 members needed to propose new spec
  - The more the merrier
  - Without interested parties that contribute work, specs will not go very far
  - Gauge true interest and commitment

• Ideally group should have at least one of each
  - Deployer organization with
    - domain expertise and
    - business case
  - Vendor/implementor organization
  - Liberty expert
  - Possibly end user representation (if different than deployer)
8.3 Work and Timeline

- Minimum theoretical time from idea to spec is about 6 months
- In practise takes at least a year
- Useful outputs can be published much earlier in draft form
- Typical roles
  - Chair (and sometimes vice-chair)
  - Spec editor (often a Liberty expert such as myself)
  - Domain experts
  - White paper author / Marketing oriented person
  - White paper / marketing contributors and reviewers
  - Technical contributors and reviewers
- Methods of work
  - Face to face meetings (often hosted by deployer)
  - Conf calls

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9. Recommendations

- Use the Data Services Template / CRUD abstraction \textit{if} doing data service
- Link user identity to the service being accessed
- Use the existing ID-SIS specifications as template, example, guideline, or best practices
- Start small
- Use only what you need
- Create consensus
- Document
9.1 Upgrading an Existing Spec

- If vertical already has a non identity spec, just upgrade it
- Getting a Liberty expert on board early will help you identify how it glues to Liberty world - what can be reused and what should be newly specified
- Success stories
  - Messaging (MM7)
  - Geoloc (MLP)
  - Contact Book (vCard)
  - ID-DAP (LDAP/LDIF)
  - ID-HR-XML (plain HR-XML) (WIP)

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10. Q&A

- Your questions, please
- http://www.projectliberty.org/liberty/specifications
- http://www.projectliberty.org/liberty/membership
- Please feel free to contact me or Liberty Alliance staff
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Acronym Expansion

**ID-WSF** Liberty Alliance Identity Web Services Framework

**IdP** Identity Provider (SAML role, asserting party, credential authority)

**SP** Service Provider (e.g. web site) (SAML role, relying party)

**WSC** Web Services Client

**WSP** Web Services Provider

**DS** Discovery Service

**TokM** Token Mapping Service

**PS** People Service

**DST** Data Services Template