Integrating Federated Identity and Web services in the RHIO Environment

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Consortium of over 150 diverse member companies and organizations developing open standards that anyone can implement, addressing the “whole issue” of identity:

- Public Policy compliance
- Privacy
- Business requirements
- Interoperability conformance testing & certification

Vision:
A networked world in which individuals, businesses, organizations and institutions can more easily interact and collaborate with one another while respecting the privacy and security of shared identity information.
Vacationing with family, Ralph develops a severe cough, and having difficulty breathing, he goes to the nearest emergency room....

Your medical records are locked away here.

It’s 2 a.m. You’re here.

Demo Scenario: Federated Identity, PHRs & Biosurveillance
a network identity is
a user's overall global
set of attributes
constituting their various accounts

User’s Network Identity

- User Name: John Smith
- Email: jsmith2@freemail.com
- PIN: 8822998
- Credit card number
- Social security number
- Drivers license
- Passport
- Entertainment preferences
- Notification preferences
- Employee authorization
- Business calendar
- Dining preferences
- Education history
- Medical history
- Financial assets…
Federated Identity: Key Concepts I

- **Federation** – an association comprising any number of Service Providers and Identity Providers

- **Principal** – a person or “user”, a system entity whose identity can be authenticated

- **IdP**, Identity Provider – authenticates a Principal’s identity

- **Single Sign-On (SSO)** – authenticate with one IdP - have authentication honored by other systems
• **Circle of Trust** – a group of service providers and identity providers that have business relationships based on Liberty architecture and operational agreements and with whom users can transact business in a secure and apparently seamless environment. Circles of Trust represent the second wave of identity federation, after SSO and federated account linking.

• **DS** – Discovery Service – provides discovery of Identity-based Web Services

Further definitions from the Glossary, found at: [http://www.projectliberty.org/specs/liberty-glossary-v1.3.pdf](http://www.projectliberty.org/specs/liberty-glossary-v1.3.pdf)
Benefits of network technology without compromising security or control over PHI

For Patients:
- Convenience of single sign-on
- More control over privacy and PHI
- Improved access
- Facilitates communication with providers & payers
- Improved patient trust and quality of care

For Providers:
- Reduced medical errors
- Better and more services, new revenue opportunities
- Improved access
- Improved operating efficiencies
- Reduces IT costs
- Easier, faster HIPAA compliance
- Improved patient trust and quality of care

Federated Identity Management “plumbing” standards that:
- Wide-spread adoption
- Convergence with other standards
- Federated authentication model
- Built on standards
- Privacy & security best practices
- Conformance testing & certification
- Provides for multi-product interoperability
Who is the Liberty Alliance?

- ~ 150 diverse member companies and organizations representing leaders in IT, mobility, government, service provision, system integration and finance from across the globe

- Management Board and Sponsor members include:
IHE-Liberty Collaboration 2006 - 2007

- **Liberty and IHE: a Perfect Match**
  - Liberty had identified Healthcare as a key vertical industry
  - IHE identified Web Services and Federation as key technologies
- **Liberty and IHE initiate collaboration at HIMSS 2005 Conference**
  - Interop Showcase with demonstrations:
    - Web Services Framework
    - Federation technology
  - **IHE meetings and Connectathons during 2005**
    - Liberty provided guidance for emerging technology:
      - Web services, Federation
- **Results:**
  - **Today:**
    - IHE incorporated SAML 2.0 (a key Liberty-based technology) into the 2006
    - HIMSS interop showcase XUA scenarios
  - **Laying the foundation for the future:**
    - Liberty is at the 2006 HIMSS demonstrating a more comprehensive SAML 2.0 federation and web services solution
    - For integration into IHE scenarios for 2007
    - increased requirement of LAP specifications in Federal RFP’s
Liberty Adds Value for Healthcare Members 06 – 07

- **RHIOs and NHIN prototypes**
  - Liberty Within & Across Local Health Nets & RHIOs
  - RHIOs/local HCDOs: proof of concept opportunity

- **RHIOs interoperability for data exchange PHI/EMR**
  - To achieve NHIN service objectives
  - Regionally, nationally, across and within RHIOs
  - With security and privacy
  - In a standards-based world

- **Liberty specifications provides the scalable “plumbing” to make this happen**
  - Technical standards for Federated Identity (SAML 2.0) and
  - Identity-based Web services (ID-WSF)
  - Industry best practices and deployment guidelines
  - Conformance and compliance testing

- **Advance, Integrating the Federated Identity into**
  - Policy making groups: (ANSI-HITSP)
  - SDOs (HL7, ISO-TC215, ASTM)
Liberty brings value to our Healthcare members:

- Federated Identity Management “plumbing” standards that:
  - Support key elements of NHIN interoperability
  - Make it much easier for patients, providers and payers to share results of authentication
  - Enable easier, faster HIPAA and other “best practice” compliance
  - Conformance and compliance testing that assure base levels of interoperability and functionality

For more information:
https://www.projectliberty.org/resources/featured_verticals_health.php