The COIN Project

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The COIN Project

- Building a Collaboration Infrastructure
- Architecture, Components and Interfaces
- Activities and planning
Collaboration Infrastructure

- The COIN platform is a synergy between Federated IdM & Group middleware, Social Networking and Collaboration Tools
- Create a middleware platform to support:
  - Small team collaboration (CAAS)
  - Virtual Organizations (CAAS or 'run your own')
  - Campus use case: Combine local and 'remote' services
High level overview

1. Collaboration Infrastructure
2. GUI/Portal/Consumer
3a. Supporting services:
   - SURF federation
   - Groups
   - Messages
3b. 
4. 
5. 
6a. 
6b. 
7. 
8a. 
8b. 
8c.
Features

- IdP and SP (SAML 2.0)
- Group relation providers
- Attribute aggregation (Corto++)
- OpenSocial 'Gadgets' for GUI (Apache Shindig)
- IdP and SP Registry (Janus)
- VO Registry → VO IdP
- User Consent, in both worlds
Components

COIN 2010
Components

Date: July 15, 2010
Author: Niels van Dijk
Version: 1.2 (Updated by Ivo Jansch)

Components

1. OpenSocial Container
2. Engine Block
3. Groupmanagers
   a. SURFteams
   b. External
4. Attribute Provider
5. Service Registry
6. Virtual Org Registry
7. User Registry
8. Federated Interaction
   a. SP Interface
   b. IdP Interface
9. Services
   a. Surfnet
   b. Institution
   c. Third Party
10. IdPs
11. OpenSocial GUI
Interfaces

COIN 2010
Interface Definitions
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Components
(1) OpenSocial Container
(2) Engine Block
(3) Groupmanagers
   (a) SURFteams
   (b) External
(4) Attribute Provider
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(8) Federated Interaction
   (a) SP Interface
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   (a) Surfnet
   (b) Institution
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(10) IdPs
(11) OpenSocial GUI

Interfaces
(A) SAML 2.0
(B) OpenSocial REST 0.9
   and Internal Proprietary
(C) Proprietary REST
   and Internal Proprietary
(D) OpenSocial 2.0
(E) OpenSocial REST 0.9
(F) OpenSocial REST 0.9
   (without auth) and
   Proprietary REST
(G) SAML2.0 metadata
   (via http)

* There are currently no Open Standards available
Issues

- OpenSocial / Shindig: 'Formal' groups, privacy & consent → all implementation issues

- Identifiers: globally unique, multi protocol
  Required for: person, group, service provider, application, devices (instruments), identity provider, attribute provider
Activities and Planning

- Currently working on creating the platform (3-4 dev team)
- Working on hooking up 'experimental' services (3-4), that are both domesticated as well as OpenSocial capable
- Work with vendors (2-3) to hook up to the platform (Fed & Groups, some OpenSocial)
- Work with institutions (2) to get their services linked. (Fed, Groups)
- Go Live expected dec 2010
Pointers

Project COIN pages:

- Blog: https://projectcoin.surfnet.nl/
- Wiki: https://wiki.surfnetlabs.nl

Announcement:

1ste European OpenSocial Meeting, dec 5 & 6, Utrecht, NL
Organized by SURFnet and The OpenSocial Foundation
Day 1: General OpenSocial, Announcing OpenSocial 1.1
Day 2: Industry Spotlight, OpenSocial in Education