Embedded WAYF

Integration of the Discovery Service into a service

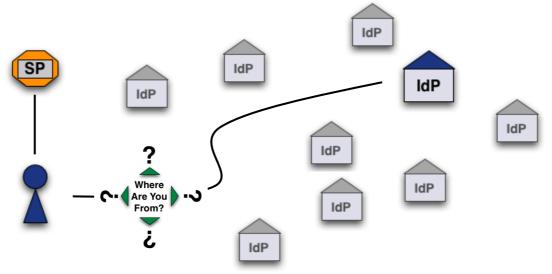




SWITCHaai Team aai@switch.ch

The Problem

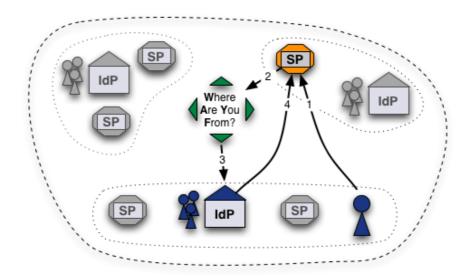
In a federated environment, the user has to declare where he wants to authenticate.



The easiest way is to ask the user "Where Are You From?"

Solution 1: Central WAYF

The classic way: One WAYF per Federation





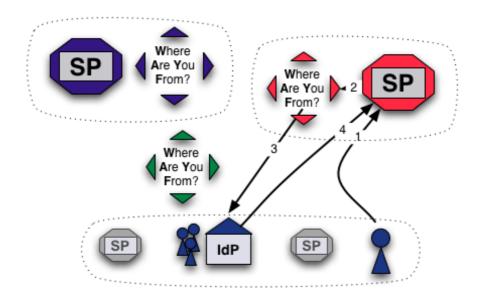
3

Centralized WAYF: Considerations

- "The WAYF is the worst possible way of doing IdP Discovery except for all the others" (Scott Cantor, SP developer)
- Very convenient for Resource administrators No deployment, installation or maintenance needed
- User statistics can be generated for federation
- User has to select his IdP only once per session
- Yet another domain the user comes across
- Another custom look & feel
- No controls regarding IdPs that are displayed

Solution 2: Distributed WAYF

More and more used: One WAYF per Resource



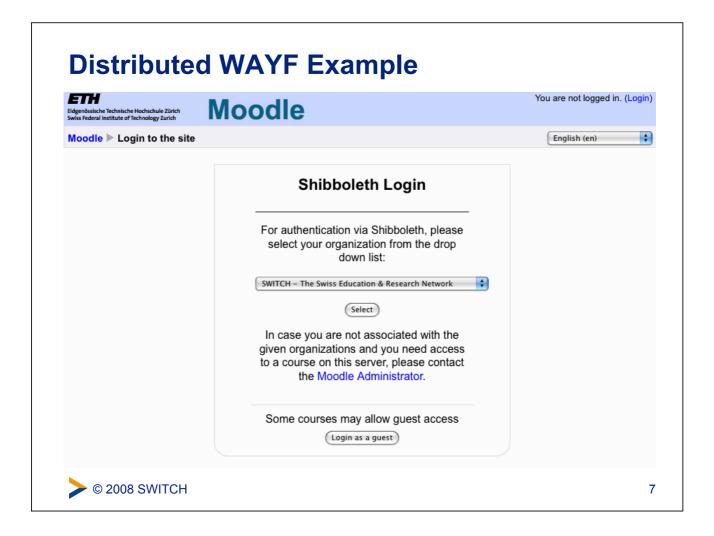


5

Distributed WAYF: Considerations

- Mostly e-learning administrators of larger resources want best usability and look&feel for their user
- Complete control for Resource administrators

 Limit IdPs to relevant ones, adapt look&feel, integrate into resource
- One redirects to another host
- One click less when optimally integrated
- √ Integration/Implementation/Maintenance work for admins
- No federation user statistics
- User may have to choose IdP for each resource again



2.b Direct Login URLs

- A separate login link for specific IdPs
- 1 click direct redirect to IdP without going via WAYF
- Useful when only users of few IdPs use resource



AAI Attributes Viewer

Click on the logo in order to see your AAI attributes. Running Shibboleth Service Provider 1.3

Direct login examples:

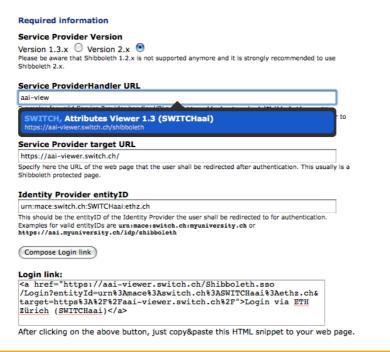
- Login via SWITCH
- Login via Université de Lausanne
- Login via ETH Zürich

Example:





Composing Login URLs



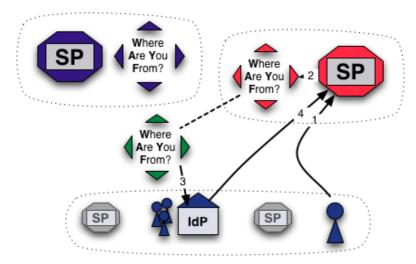
http://www.switch.ch/aai/support/serviceproviders/sp-compose-login-url.html



9

Solution 3: Embedded WAYF

The new idea: Embed WAYF on Resource, customize look and feel but effectively still transparently use central WAYF



© 2008 SWITCH

10

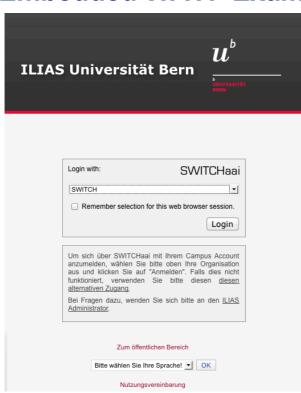
How the embedding works

- Works like Google Ads :-)
- Embedd 2 JavaScripts:
 - Configurator Script
 - □ Influences look and feel (colors, size, etc.)
 - □ Excludes IdPs from list
 - Add IdPs from other federations
 - Logic Script
 - The same URL for all instances of the embedded WAYF
 - Generated by and loaded from central WAYF
 - Cookies from central WAYF can be read this way!
 This allows IdP preselection or direct redirection



11

Embedded WAYF Example



Instructions:

- Copy & paste sample HTML code to your web page
- 2. Adapt at least 3 settings
- 3. Done

What you get:

Always up-to date, fully customizable, self-maintained, 1 click-saving Discovery Service

Example:





Embedded WAYF: Considerations

- Use advantages of central and distributed approach
- Complete control for Resource administrators Limit IdPs to relevant ones, adapt look&feel, integrate into resource
- No redirects to another host
- Very convenient for Resource administrators No deployment, installation or maintenance needed
- User statistics can be generated for federation
- (User needs Javascript enabled or use alternative fallback)
- (Central WAYF must be well secured and high available)
 - http://www.switch.ch/aai/support/serviceproviders/sp-embedded-wayf.html

> © 2008 SWITCH

13

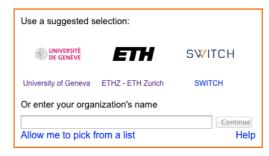
Alternative I: Embedded Discovery Service

- Works like Embedded WAYF
- Independent from a central service
- Requires Shibboleth SP >= 2.4
- Search-as-you-type or select from list
- JS, CSS and HTML only
- Very easy to customize



Choose an Identity Provider

In order to log in to this service, please select the home organization with which you're affiliated. If your organization is not supported, you may select **ProtectNetwork** and create a free account there for our services.



https://wiki.shibboleth.net/confluence/display/EDS10/Embedded+Discovery+Service

© 2008 SWITCH 14

Alternative II: Disco Juice

- Very comprehensive Discovery Service
- Well suited for services with users from many IdPs
- Search-as-you-type only
- Uses Geo IP and metric to guess user's IdP
- Based on PHP and JS





© 2008 SWITCH

15