

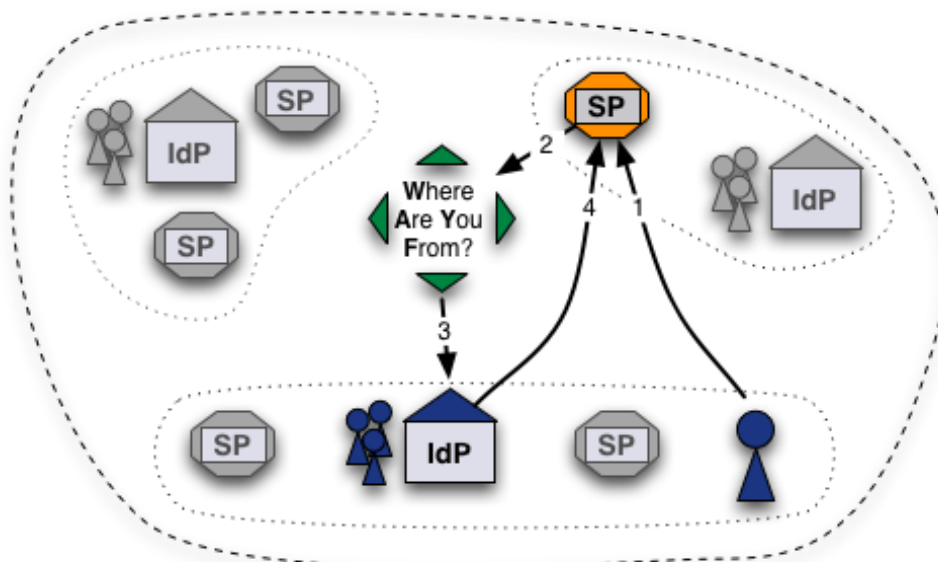
Discovery Service Options



SWITCH

SWITCHaai Team
aai@switch.ch

The classic way: One WAYF per Federation



WAYF achieves high availability through redundancy and IP Anycast.

Alternatives to Central WAYF

- Direct Login URLs
- SWITCH Embedded WAYF
- Shibboleth Embedded Discovery Service



Solution 1: Direct Login URLs

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

Login links:

[Login via SWITCH \(SWITCHaai\)](#)

[Login via Stockholm University \(Interfederation\)](#)

[Login via University of Gothenburg \(Interfederation\)](#)

Composing Login URLs

Service Provider Login Link Composer

This web page lets one compose login links for a Shibboleth-protected resource. The link will redirect users directly to a specific Home Organization for authentication. This way users will skip the WAYF/Discovery Service.

Example link: [Login via SWITCH \(SWITCHaai\)](#)

However, in case your resource has users from more than a hand full of different organizations, it is recommended to use a WAYF/Discovery Service or the [embedded WAYF](#).

Required information

Service Provider Session Initiator Handler URL

<https://av.aai.switch.ch/Shibboleth.sso/Login>

Session Initiator /Login /DS

Since Shibboleth 2.5 the default Session Initiator is **/Login**, for older version you might have to use the **/DS** Session Initiator.

Enter the hostname of your SWITCHaai or AAI Test service and select one of the matching entries from the auto-completion feature.

Examples for valid Service Provider Session Initiator handler URLs are

<https://myhost.uni.ch/Shibboleth.sso/Login> or

<https://otherhost.uni.ch/Shibboleth.sso/DS>.

Service Provider Target URL

<https://aai-viewer.switch.ch/>

Specify here the URL of the web page that the user shall be redirected after authentication. This is usually a Shibboleth protected page. If you don't have such a page yet, use

<https://your.host.ch/Shibboleth.sso/Session> provided you are using a Service Provider 2.x. This page then will display all available attributes and other session information.

Identity Provider entityID

[unibe](https://aai-viewer.switch.ch/)

Universität Bern (SWITCHaai)
<https://aai-ldp.unibe.ch/ldp/shibboleth>

Universität Bern - Test-Homeorg (AAI Test)
<https://aai-test/ldp.unibe.ch/ldp/shibboleth>

Examples for valid entityIDs

with IdP 2.3 or newer)

provider-initiated URLs work

in some cases but are generally not

recommended to use.



<https://www.switch.ch/aai/support/serviceproviders/sp-compose-login-url.html>



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Solution 2: Embedded WAYF

SWITCH
WAYF

ILIAS
Universität Bern


OLAT login


Please select your university.

You will be redirected for authentication.

SWITCH

Login



Login with: 

Select the organisation you are affiliated with. ...

Remember selection for this web browser session.

Wählen Sie bitte oben Ihre Organisation aus und klicken Sie auf "Anmelden". Falls dies nicht funktioniert, verwenden Sie bitte [diesen alternativen Zugang](#).

Bei Fragen dazu wenden Sie sich bitte an die [ILIAS Administration](#).

WSL - Eidg. Forschung

Anleitungen und Merkblätter



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Embedded WAYF

Enter the name of the organisation you are affiliated with...

Last used

- University of Basel
- EPFL - EPF Lausanne
- SWITCH

Universities

- EPFL - EPF Lausanne
- ETHZ - ETH Zurich
- Universita della Svizzera Italiana
- University of Basel
- University of Bern
- University of Fribourg
- University of Geneva
- University of Lausanne
- University of Liechtenstein
- University of Lucerne
- University of Neuchâtel
- University of St. Gallen
- University of Zurich

University Hospitals

- CHUV - University Hospital Lausanne
- HUG - Univ. Hospitals of Geneva
- Inselspital - University Hospital Bern
- University Hospital Zurich

From other federations

- Dalarna University
- Esslingen University of Applied Sciences

Zu

Universities

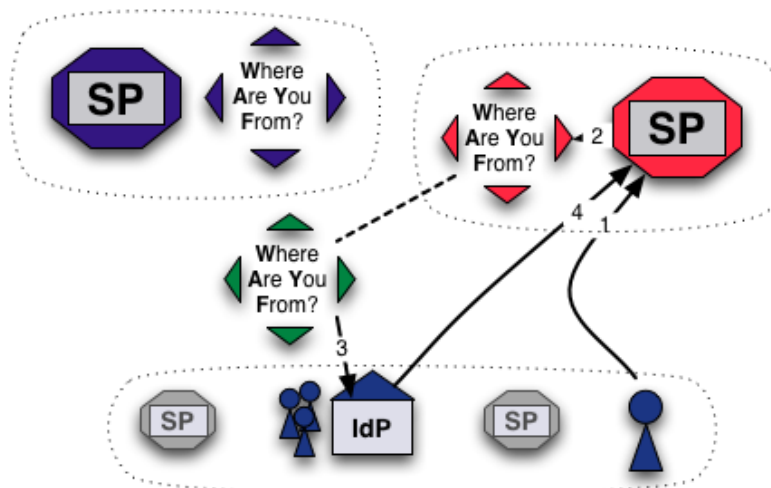
- ETHZ - ETH Zurich
- University of Zurich

University Hospitals

- University Hospital Zurich

Embedded WAYF

- Embed WAYF on Web Application
- customize look and feel
- still transparently uses central WAYF



More information about the Embedded WAYF:

 <https://www.switch.ch/aai/support/serviceproviders/sp-embedded-wayf.html>

Generate the Embedded WAYF code for your SP:

 https://rr.aai.switch.ch/gen_embedding_code.php

Configuration Example of Embedded WAYF

```
// Example of how to add Identity Provider from other federations
var wayf_additional_idps = [
    {name:"Esslingen University of Applied Sciences",
      entityID:"https://idp.hs-esslingen.de/idp/shibboleth",
      logoURL:"https://www2.hs-esslingen.de/favicon.ico"
    },
    {name:"Dalarna University",
      entityID:"https://login.du.se/idp/shibboleth",
      logoURL:"https://login.du.se/duse-logo-16x16.png"
    }
];
```

Configuration Example of Embedded WAYF

```
// EntityIDs of Identity Provider that should not be shown at all
// [Optional, commented out by default]

var wayf_hide_idps = new Array ("https://idemfero.units.it/idp/shibboleth",
"https://idp.it.su.se/idp/shibboleth");

// Categories of Identity Provider that should not be shown
// Possible values
// are:"university", "uas", "hospital", "library", "vho", "others", "all"

var wayf_hide_categories = new Array("library", "vho", "others", "hospital");
```

Enable JSON Discovery feed to use local metadata of SP



In shibboleth2.xml:

```
<Sessions lifetime="28800"
    timeout="3600"
    relayState="ss:mem"
    checkAddress="false"
    consistentAddress="true"
    handlerSSL="true"
    cookieProps="https">
...
<!-- JSON feed of discovery information. -->
    <Handler type="DiscoveryFeed" Location="/DiscoFeed"/>
</Sessions>
```

JSON Discovery feed example



```
[ { "entityID": "https://tlogin.usi.ch/idp/shibboleth",
  "DisplayNames": [
    { "value": "Universita della Svizzera Italiana", "lang":
"en" },
    { "value": "Universita della Svizzera Italiana", "lang":
"it" }
  ]
},
{ "entityID": "https://dtaai.unil.ch/test/idp/shibboleth",
  "DisplayNames": [
    { "value": "Université de Lausanne Test", "lang": "en" },
    { "value": "Université de Lausanne Test", "lang": "fr" }
  ],
}
```

Configuration (3)



Configuration Example of Embedded WAYF

```
// Whether to load Identity Providers from the Discovery Feed provided by
// the Service Provider.
// IdPs that are not listed in the Discovery Feed and that the SP therefore is
// not able to accept assertions from, are hidden by the Embedded WAYF
// IdPs that are in the Discovery Feed but are unknown to the SWITCHwayf
// are added to the wayf_additional_idps.
// The list wayf_additional_idps will be sorted alphabetically
// The SP must have configured the discovery feed handler that generates a
// JSON object. Otherwise it won't generate the JSON data containing the IdPs.
// [Optional, default:false]

var wayf_use_disco_feed = true;
```

Solution 3: Embedded Discovery Service



- Requires the Discovery Feed provided by the SP
- Embed the DS directly into the service
- Search-as-you-type or select from list
- JavaScript, CSS and HTML only
- developed and maintained by the Shibboleth team
- download from

<https://shibboleth.net/downloads/embedded-discovery-service/latest/>

- Documentation can be found at:

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

Embedded Discovery Service



AAI Attribute Viewer



The AAI Attribute Viewer displays all attributes that are available about an AAI user. All user information is stored 10 days in a log file before it is automatically deleted.

Please select your Home Organization and log in to see the [AAI attributes](#) that are available for you.

Use a suggested selection:



VHO - Virtual Home Organization



WSL - Swiss Federal Institute for...



SWITCH

Or enter your organization's name

- FHNW - University of Applied Sciences Northwestern Switz
- HES-SO : University of Applied Sciences Western Switzerl
- HSR - Hochschule für Technik Rapperswil
- PHZ - University of Teacher Education Central Switzerlan
- SNSF - Swiss National Science Foundation
- SUPSI - University of Applied Sciences Southern Switzerl
- SWITCH
- VHO - Virtual Home Organization
- WSL - Swiss Federal Institute for Forest, Snow and Lands

Continue
Help


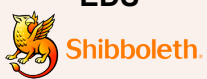
MetadataFilter Example




In shibboleth2.xml:

```
<MetadataProvider type="XML" .....>  
  
  <MetadataFilter type="Whitelist">  
    <Include>https://testidp.unifr.ch/idp/shibboleth</Include>  
    <Include>https://aai-demo-idp.switch.ch/idp/shibboleth</Include>  
    <Include>https://aai-testidp.unibe.ch/idp/shibboleth</Include>  
  </MetadataFilter>  
  
</MetadataProvider>
```

Embedded WAYF vs Embedded DS

Properties	Login Link	Embedded WAYF 	EDS 
Independent from central server	✓		✓
Display only “valid” IdPs for SP		(✓)	✓
Search as you type feature		✓	✓
Show Home Org Logo	(✓)	✓	✓
Very easy deployment	✓	✓	✓
Can be used with old SPs (<2.4)	✓	(✓)	
Categories supported	(✓)	✓	
Uses cached recent IdP selection across different services		✓	

When to use what ?

Numbers of IdPs	Login Link(s)	Embedded WAYF SWITCH	EDS  Shibboleth.
1 - 5	✓	✓	✓
1 - 50		✓	✓
1 - 500		✓	✓

To mention: 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

 <http://discojuice.org/>

