

Resource Registry

How to manage Federation metadata and other descriptions



SWITCH

Serving Swiss Universities

SWITCHaai Team
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The Initial <Problem>

```
</EntityDescriptor>
<!-- Resource Registry -->
- <EntityDescriptor entityID="https://rr.aai.switch.ch/shibboleth">
  - <SPSSODescriptor protocolSupportEnumeration="urn:oasis:names:tc:SAML:2.0:protocol urn:oasis:names:tc:SAML:1.1:protocol">
    - <Extensions>
      - <mdui:UIInfo>
        - <mdui:DisplayName xml:lang="en">Resource Registry</mdui:DisplayName>
        - <mdui:Description xml:lang="en">
          The Resource Registry is a tool developed by SWITCH collecting information about Resources and Home Organizations which participate in the SWITCHaai and AAI
          </mdui:Description>
        - <mdui:Keywords xml:lang="en">resources aai register authority administration</mdui:Keywords>
        </mdui:UIInfo>
      </Extensions>
    - <KeyDescriptor>
      - <ds:KeyInfo>
        - <ds:X509Data>
          - <ds:X509Certificate>
            MIIDHDCCAqSgAwIBAgIJAKyuqWEMkbbhMA0GCSqGSIb3DQEBBQUAMBSxGTAxBgNV BAMTEHJyLmFhaS5zd2I0Y2guY2gwHhcNMTEExMjA1MDczMTE3
            WjAbMRkwFwYDVKQDEExByci5hYWkuc3dpdGNoLmNoMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAE0BdooNoOCQhs4eHgPukMi2
            jfGYXkiHUD4mkHFsWE4CqQVSiPcGbLLCj3Kb9O2a34F79mAjJL3VIOUgc3MB4k74 vqqVuql5zLgjzBMZgXcG2pKtBQCiiEc0j/34EFFTTPXOG7MWEi8Nd5-
            vU47u3BzOzxLhtMitZcfQonkmgFdms IboE7Ltf5hoaqu/PP5YAPD5fQgLp59FgGT Hj673DDHhlmkpp17Yd4vGhi/zuu WwayqqrQ7McUw2IjJlFqSXndZnSubO1bL
            sbHy/bTrnlfTQldHERhQnfl4PWOCw3oc4TVQv9TctsJTWIDAQABo2MwYTBABgNV HREEOTA3ghByci5hYWkuc3dpdGNoLmNohiNodHRwczovL3JyLmFhaS5zd2I0Y2guY2gwHhcNMTEExMjA1MDczMTE3
            Y2gwY2hpYmYvbgV0aDAAdBgNVHQ4EFgQUUBXFLfXgSki1u88YLdYREjH8f14wDQYJ KoZlhvCNAQEFBQADggEBAlpxIxPfuReUSJkK6cxWxcjSUFImU-
            j5gmlolJJB0d1leEMWjoHrheIAFRKnjOx6+HenrP7xWsV2mUawTH9misPA6qZ0MZ AbW578ed1pZx04iqlsZhAfFC8uh+GgCCnmX15f8W5LoDN+RDkIZfpodSi
            yLITAZiVVH+HfmV1qut49HjqF3WUJ9hVP15IgjRoh9LbPrSOubJqO69mu4QDcA gv6tFqjiavGvm4p7EMZbcXQMtCajZz5HSLX5GDNLKX+HePKvkSyk0CO
            nhE8VWTzYa85XDUg2QbdczmVAkDom9zZcSMXmTxwmOs=
          </ds:X509Certificate>
        </ds:X509Data>
      </ds:KeyInfo>
    </KeyDescriptor>
    <SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect" Location="https://aai-rr.switch.ch/aitest/Shibboleth.sso/SLO/Redirect"/>
    <SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect" Location="https://rr.aai.switch.ch/aitest/Shibboleth.sso/SLO/Redirect"/>
    <SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect" Location="https://rr.aai.switch.ch/Shibboleth.sso/SLO/Redirect"/>
    <SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST" Location="https://aai-rr.switch.ch/aitest/Shibboleth.sso/SLO/POST"/>
    <SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST" Location="https://rr.aai.switch.ch/aitest/Shibboleth.sso/SLO/POST"/>
    <SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST" Location="https://rr.aai.switch.ch/Shibboleth.sso/SLO/POST"/>
  </SPSSODescriptor>
</EntityDescriptor>
```

Shibboleth needs SAML 2 metadata to know all entities!

Difficulties and Goals

- Editing XML files by hand is error-prone and clumsy
- Managing the federation metadata by hand is cumbersome
- Legal processes should be technically supported
- Multiple federations must be managed

A web-based tool to solve these problems!

Goals for such a Tool:

- Scalable metadata management
- Support administrative processes
- Provide auxiliary functions to support federation
- As little overhead as possible

The AAI Resource Registry

AAI Resource Registry SWITCH
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[Home](#) | [Resources](#) | [Registration Requests](#) | [Home Organizations](#) | [Registry Administration](#) [Lukas Hammerle \(switch.ch\)](#) | [Logout](#) | [Help](#)

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Home

Home and General Information

This page provides usage instructions and general information about the federations managed by the Resource Registry.

Resource Registry Usage Instructions

- [Resource Registry Guide](#) explaining the basic principles and mechanisms of the Resource Registry
- [Resource Registry Screenshot](#) for first time users on how to register a resource

Federation Information

- [Federations](#): List of federations operated by the Resource Registry
- [All Home Organizations](#): List of approved Home Organizations
- [Federation Partners](#): List of accepted Federation Partners for SWITCHaai
- [All available Resources](#): List of approved active and inactive Resource Descriptions
- [Search for resources](#): Search according to name, entityID, Home Organization etc.
- [Users from domain switch.ch](#): Users from your organisation that have used the Resource Registry
- [Attribute definitions](#): List of available attribute names and descriptions
- [Attribute release matrix](#): Which attributes can be released by which Home Organization?
- [Resource attribute requirement matrix](#): Which attributes are requested by which resources?

SWITCHaai Migration statistics

Identity Providers Statistics of total 47 IdPs



100%

■ SAML1/SAML2 IdPs

Service Provider Statistics of total 591 SPs

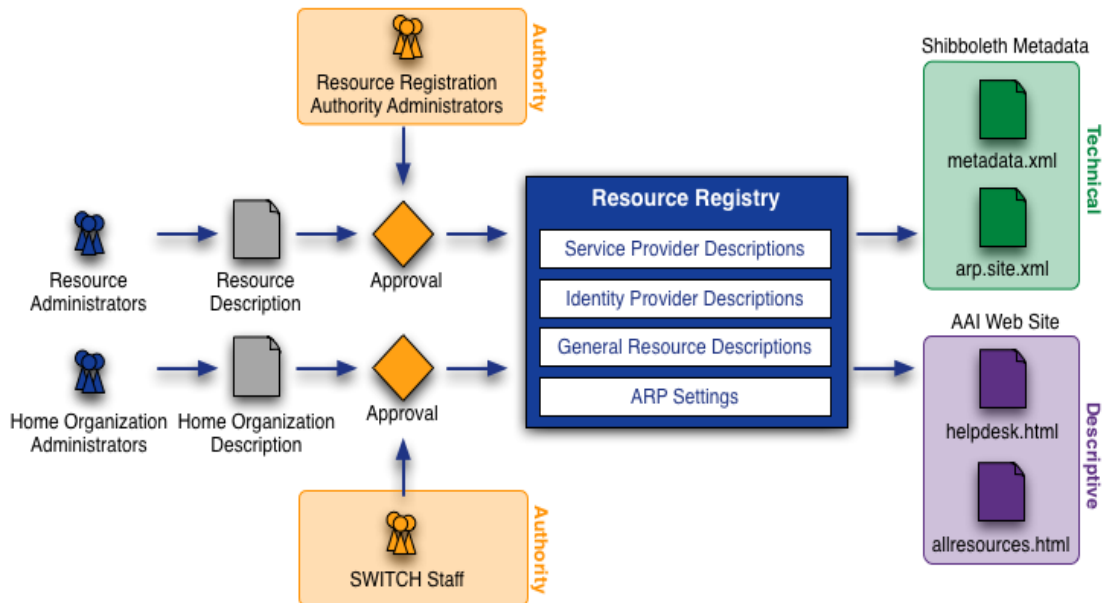


95.1%

■ SAML1/SAML2 SPs ■ SAML1-only SPs

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Resource Registry Processes



Before an SP/IdP description becomes part of federation metadata, it must be approved by an authority first

Roles in the Resource Registry

- **Resource Registry Administrator**
SWITCH staff members. Can edit/delete everything
- **Home Organisation Administrator**
User that can manages the description/metadata of an organisation
 - **Attribute Administrator**
Subset of privileges of Home Organisation administrator
User that can change the attribute release policy of an organisation
- **Resource Administrator**
Creates and manages descriptions of AAI services/Service Providers
- **Resource Registration Authority Administrator**
Approves descriptions of AAI services/Service Providers

Output of Resource Registry

- **Metadata**, see <http://www.switch.ch/aai/metadata/>
- **Configuration files** for IdPs and SPs (shibboleth2.xml, ...)
- **Helpdesk webpage** shows contact person/helpdesk for your SP

Your Helpdesk for the Most Recently Used Resource

Use this helpdesk contact if you have **problems after a successful login**.

SWITCH AAI Wiki: waaikiki
Contact: [SWITCHaai Team](#)

If you doubt that the helpdesk contacts above are correct in your case, please have a

- **Public Resource list**, see <http://www.switch.ch/aai/participants/>

SWITCH AAI Wiki: waaikiki

No Helpdesk web page specified

- ▶ [Show contact persons](#)
- ▶ [Show requested attributes](#)
- ▶ [Show intended audience](#)

Live Demonstration

AAI Resource Registry

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