# **Resource Registry**

How to manage Federation metadata and other descriptions



# SWITCH

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SWITCHaai Introduction Course Bern, 1. March 2013

# The Initial <Problem>

× × · 8

</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 </mdu:Description>

<mdui:Keywords xml:lang="en">resources aai register authority administration</mdui:Keywords>

- </mdui:UIInfo>
- </Extensions>
- <KeyDescriptor>
- <ds:KeyInfo>
- <ds:X509Data>
  - <ds:X509Certificate>

MIIDHDCCAgSgAwIBAgIJAKyuqWEMkbhhMA0GCSqGSIb3DQEBBQUAMBsxGTAXBgNV BAMTEHJyLmFhaS5zd2l0Y2guY2gwHhcNMTExMjA1MDczM MTE3WjAbMRkwFwYDVQQDExByci5hYWkuc3dpdGNoLmNoMIIBIjANBgkqhkiG9w0B AQEFAAOCAQ8AMIIBCgKCAQEA0BdooNoOCQhs4eHgPuKMi2 jfGYXkIHUD4mkHFsWE4CqQVSfPcGbLLCj3Kb9O2a34F79mAJJL3VIOUgc3MB4k74 vqqVuql5zLgjzbMZgXeG2pKtBQCilEc0j/34EFFTTPXOG7MWEi8Nd5 vU47u3BzOzxLIhtMtZcfQonkmgFdms1boE7Ltf5hoaqu/PP5YAPD5fQgLp59FgGT Hj673DDhHlmkpp17Yd4vGhi/zuuWwayqqrQ7McUw2iJjIFqSXndZhSUbOIbL sbHy/bTrnltTQ1dHERhQnfl4PWOCw3oc4TVQv9TctksjTwIDAQABo2MwYTBABgNV HREEOTA3ghByci5hYWkuc3dpdGNoLmNohiNodHRwczovL3JyLmFha Y2gvc2hpYmJvbGV0aDAdBgNVHQ4EFgQUBXFXLfXgSki1u88YLdYREjH8f14wDQYJ KoZIhvcNAQEFBQADggEBAIpxIxPfUuRcUSJkK6xcWXcjSUF1mU j5gmloJIJB0d11eEMWjoHrheIAFRKnj0x6+HenrP7xWsV2mUAwTH9misPA6qZ0MZ AbW578ed1pZx04iqlsZhAfFC8uh+GgCCnmX15f8W5LoDN+RDKIZfpodSt yL1TAZfVVIH+IfmV1qut4u9HjqF3WUJ9hVP15IgjRoh9LbPrSOubJqO69mu4QDcA 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/aaitest/Shibboleth.sso/SLO/Redirect"/>
<SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect" Location="https://rr.aai.switch.ch/aaitest/Shibboleth.sso/SLO/Redirect"/>
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<SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST" Location="https://rr.aai.switch.ch/aaitest/Shibboleth.sso/SLO/POST"/>

## 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



Home | Resources | Registration Requests | Home Organizations | Registry Administration

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↑ About AAI 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**

- <u>Resource Registry Guide</u> explaining the basic principles and mechanisms of the Resource Registry
- 📓 <u>Resource Registry Screencast</u> for first time users on how to register a resource

#### Federation Information

- Ederations: List of federations operated by the Resource Registry
- All Home Organizations: List of approved Home Organizations
- Eederation Partners: List of accepted Federation Partners for SWITCHaai
- Image: All available Resources: List of approved active and inactive Resource Descriptions
- Q 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?

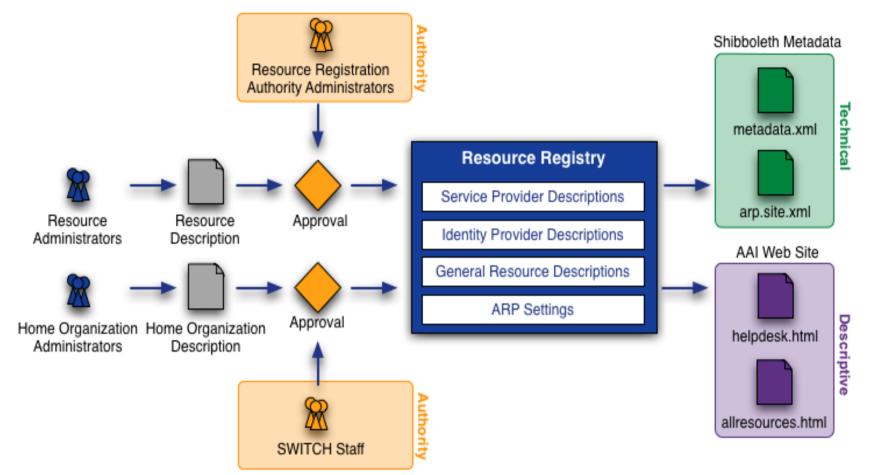
#### SWITCHaai Migration statistics





# Web: https://rr.aai.switch.ch

# **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 persons/helpdesk for your SP

### Your most recently used Resource's helpdesk

Contact the helpdesk of the Resource you wanted to connect to, if you experience **problems after successful login**.

Forge: Project Hosting Platform Support Contact: <u>SWITCHaai Team</u>, +41 44 268 15 05

Find the Resource in the list of Resources grouped by Home Organization or in the long list of all public Resources.

### Public Resource list, see http://www.switch.ch/aai/participants/

AAI Wiki - Waaikiki No Helpdesk web page specified Show contact persons Show requested attributes Show intended audience [en] AAI Wiki - Waaikiki



# **Live Demonstration**

### AAI Resource Registry

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