Introduction to AAI

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Without AAI

- Tedious user registration at all resources
- Unreliable and outdated user data at resources
- Different login processes
- Many different passwords
- Many resources not protected due to difficulties
- Often IP-based authorization
- Costly implementation of inter-institutional access
With AAI

- No user registration and user data maintenance at resource needed
- Single login process for the users
- Many new resources available for the users
- Enlarged user communities for resources
- Authorization independent of location
- Efficient implementation of inter-institutional access
SWITCHaai Project Planning

- Study
- Pilot
- Impl. V1.0
- Operation V1.0
- Impl. V2.0
- Operation V2.0
- Impl. V3.0
- Operation V3.0

Architecture Evaluation -> Shibboleth
- [http://www.switch.ch/aai](http://www.switch.ch/aai)
  - Demo
  - Try it yourself
    - [https://kohala.switch.ch/secure](https://kohala.switch.ch/secure)
Shibboleth Process: The Details

User’s Home Org

- Authentication
- User Dir

Resource Owner

- WAYF ‘Where Are You From’-Server
- Handle

Resource Manager

- RM

SHIRE Shibboleth Indexical Reference Establisher

SHAR Shibboleth Attribute Requestor

Attributes

AAP

User

HS Handle Server

AA Attribute Authority

ARP

Credentials

Attributes

Shibboleth AAI Components
Single Sign On

http://aaidemo.alzheimerlearn.net/
110'000 users of the Swiss Higher Education System have an AAI-Account (= 50% of all users)
Showcase 1: DOIT

DOIT: Dermatology Online with Interactive Technology

- AAI Home Organization
- AAI Resource

Access Rule:

- HomeOrg = UniZH | UniBE | UniL
- Affiliation = Student
- StudyBranch = Medicine
- StudyLevel = 15

500 users
Showcase 2: VITELS

VITELS: Virtual Internet and Telecommunications Laboratory of Switzerland

- AAI Home Organization
- AAI Resource

UniZG
ETHZ
SWITCH
UniBE
VHO

200 users
AAI Status Resourcen

Home Organisations

AAI-enabled Resources

Nano-World
EDT
OLAT
VITELS
ERL
DOIT
Bio-Med
VConf
AD Learn
CustomX
jobs.BWL
Edutech
UniL
UniGE
UniBE
ETHZ
UniZH
SWITCH
The Vision

AAI Home Organization

AAI Resource
SWITCH acts as federation service provider
Federation membership based on signed service agreements
Advisory Committee

Members:
- one representative of the universities Pascal Jacot-Guillarmod
- one representative of the universities of applied sciences Niklaus Lang
- one representative of SWITCH Thomas Brunner | Martin Sutter
- one representative of CRUS Raymond Werlen
- one to three representatives of important Resource Owners (e.g. Library Consortium, SVC)
  Andreas Kirstein (ETH Bibliothek)
  Gabrielle von Roten (Bibliothekskonsortium)
  Marc-Alain Steinemann (VITELS)
- one jurist familiar with AAI-related legal issues Thomas Jordan
Legal Framework

Federal and Cantonal Law (e.g. Data Protection Law)

SWITCH

Service Agreement

AAI Policy

Org ...

 Org ...

 Org ...

 Org ...

User Regulations

User Regulations

User Regulations

User Regulations
Central AAI-Services

- Strategy & Marketing
- International Contacts
- Support, Consulting, Training
- Providing Federation-specific Files and Configuration Guides
- Operating WAYF (Where Are You From Server)
- Test-HomeOrg and Test-Resource
- Tools (AAIportal, AAIproxy)
- Virtual Home Organization
- Jump Start Service
Funding

funding / costs in KCHF

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

- pilot project
- project
- operational service

funded by SWITCH
funded by subsidies
funded by tariffs
Further Information

- Shibboleth: http://shibboleth.internet2.edu/
- Shibboleth Demo: http://www.switch.ch/aai/demo
- Pilot Results Report: http://www.switch.ch/aai/docs/AAI_Pilot_Results.pdf
Questions?

Q & A

http://www.switch.ch/aai

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