

The Swiss Education & Research Network

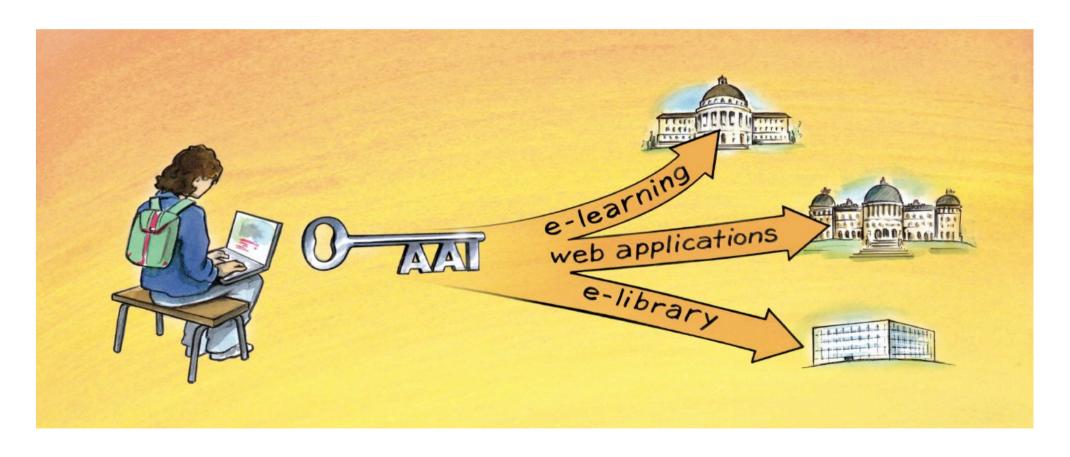
AAI Introductory Tutorial

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AAI is the Key!

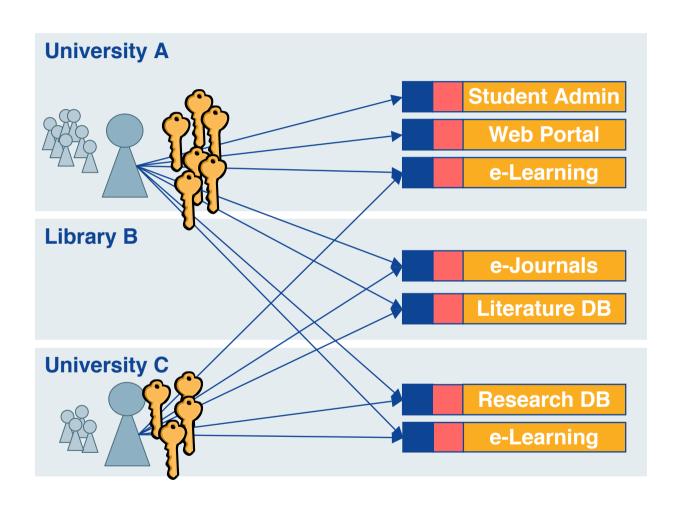


Authentication and Authorization Infrastructure AAI = AuthN & AuthZ



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- Unreliable and outdated user data at resources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

User Administration
Authentication

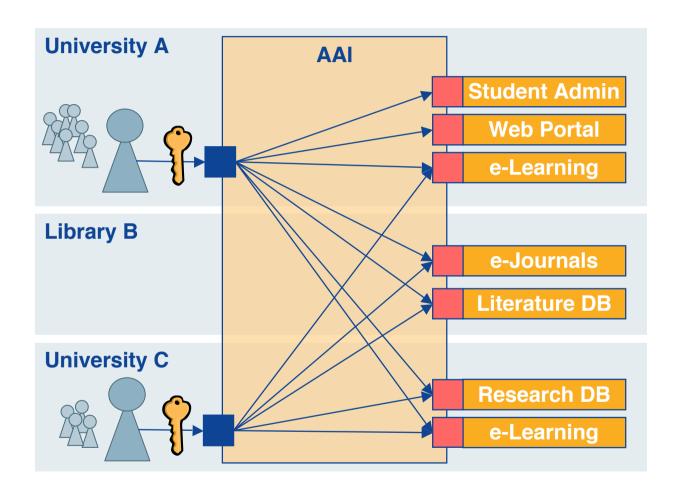
Authorization

Resource



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

User Administration
Authentication

Authorization

Resource



Shibboleth



- Open Source
- Developed by Internet2
- Federated approach
- Privacy



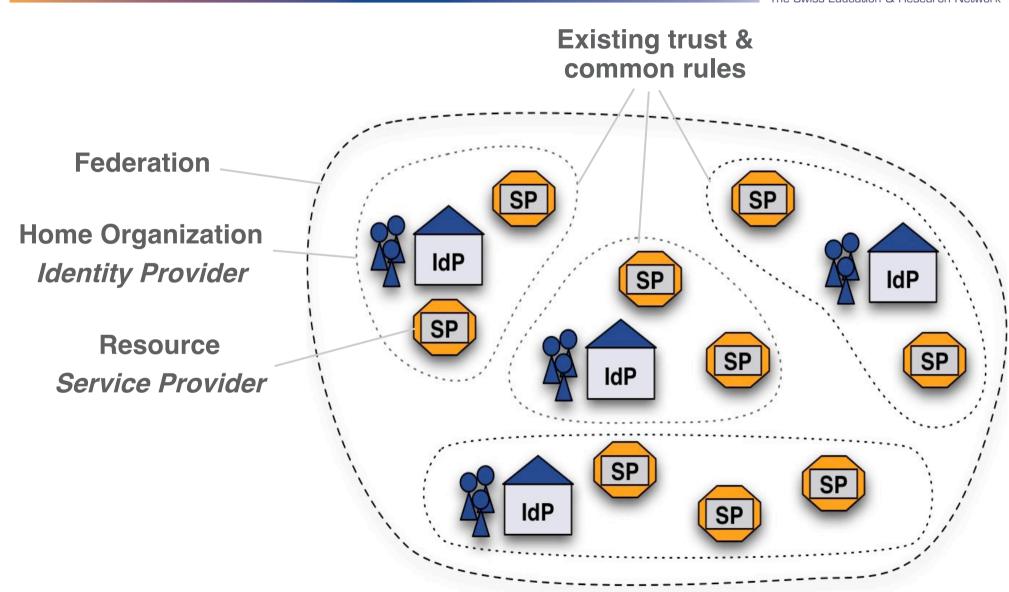
- Currently for web resources only
- Based on SAML
- Liberty Alliance also based on SAML
- Growing interest from content providers, e-journal publishers

http://shibboleth.internet2.edu



What is a Federation?



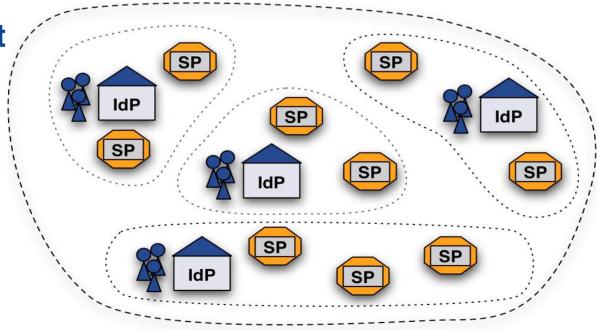


Federated Identity Management



- Existing digital identity can be used
 - also outside the own home organization
 - for authentication
 - and authorization

 Service Providers trust the Identity Management at the users Home Organization



Demo: Try it yourself



http://www.switch.ch/aai/demo/

click on «demo resource»

use Home Organization: AAI Test Home Organization

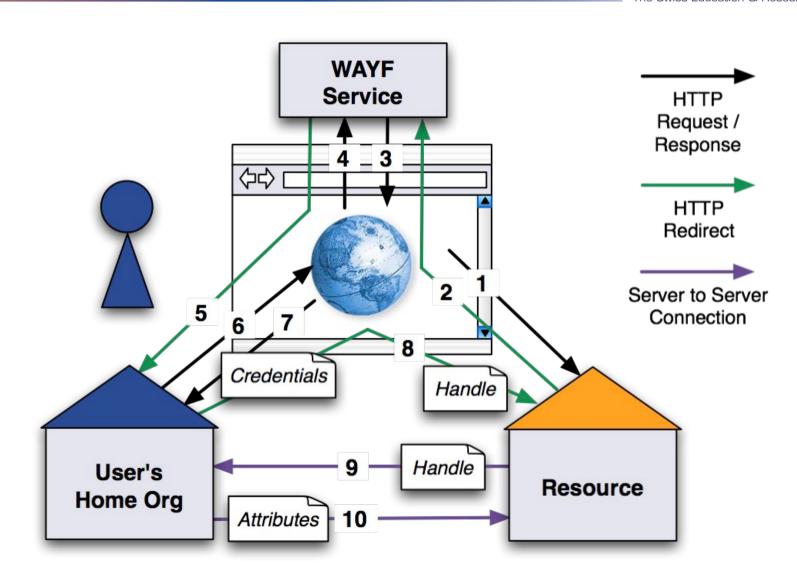
use Username: demouser

use Password: demo

 with a personal AAI account, use this URL: https://aai-viewer.switch.ch/aai/ and choose your Home Organization

Demo

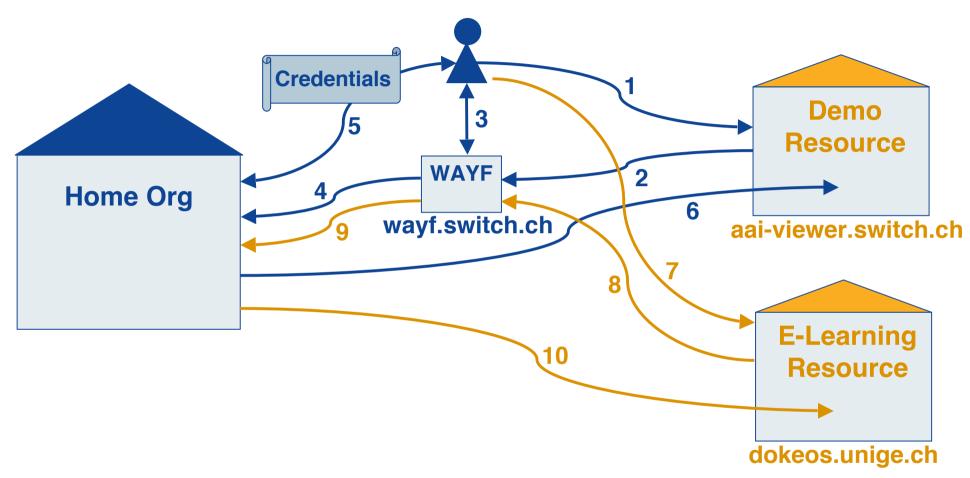




Single Sign On



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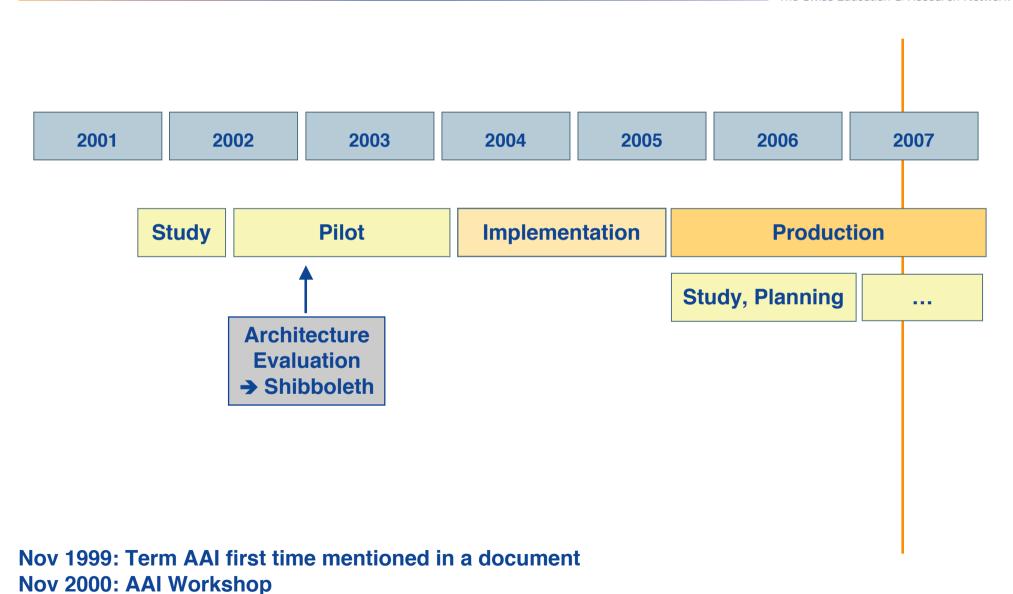


https://dokeos.unige.ch/home

SWITCHaai Project Timeline

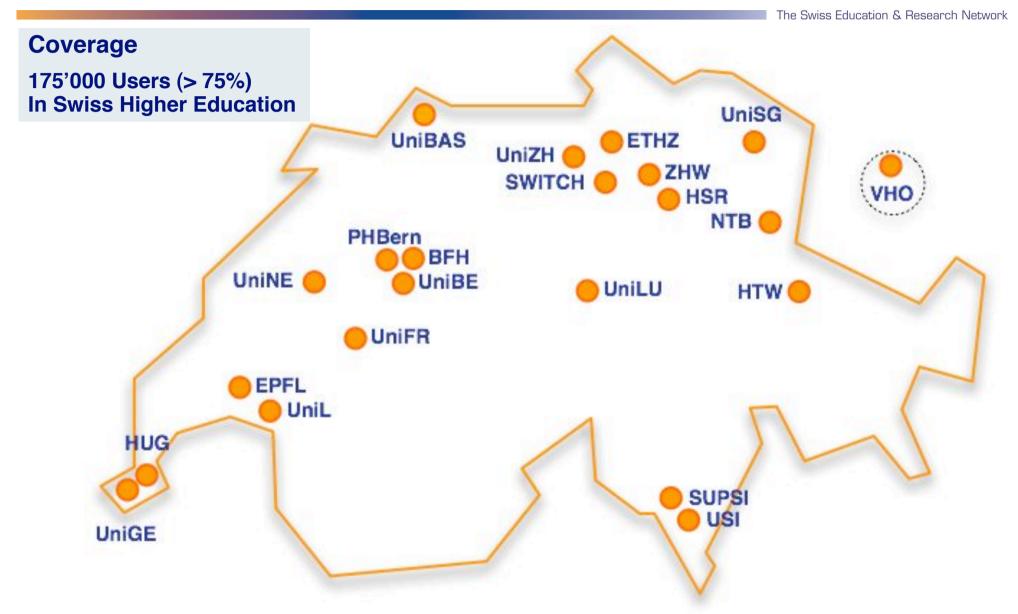


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Identity Providers in SWITCHaai





Service Providers in SWITCHaai



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JSTOR

E-Learning

OLAT Moodle WebCT CE

WebCT Vista VITELS

Dokeos

ADlearn

DOIT CASUS ILIAS

Claroline Blackboard

Libraries

EZproxy

ScienceDirect

VirtualLib DigiTool

RERO

EBSCO

Aleph

Other Web Applications

eConf Portal BSCW SLCS

Compicampus TWiki OpenCMS

EVA WebSMS Plone

Jahia SAP-Portal SAP CATS

Lenya uPortal Evento IS-Academia

Commercial & other Partners

MSDNAA

Neptun Store

Federal Court

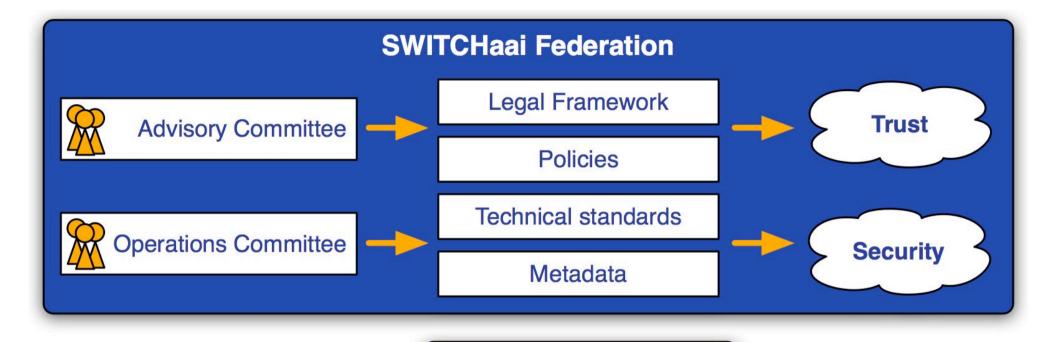
SwissLex

operational in pilot ideas

>180 Resources

The Federations available





AAI Test Federation

Technical standards

Metadata

Federation Metadata



- Metadata is fundamental for a federation!
- Security
 - Info on certificates and entityID, to know with whom to exchange data
- Data protection and privacy
 - Attribute Release Policy (at the IdP)
- Metadata has to be current and in sync, no reliable interoperability otherwise
 - bilateral data exchange scales badly
- → The resource registry is the tool for metadata management

Why Server Certificates?



