

The Swiss Education & Research Network

SWITCHSICSAccess to the Grid with AAI Identities

Christoph Witzig witzig@switch.ch

SWITCHslcs



- Authentication and Authorization on the Grid
- SWITCHslcs translating AAI credentials to Grid credentials
- Status of SWITCHsIcs

SWITCH's work in EGEE-II



EGEE-II: 2nd phase of Enabling Grid's for E-sciencE

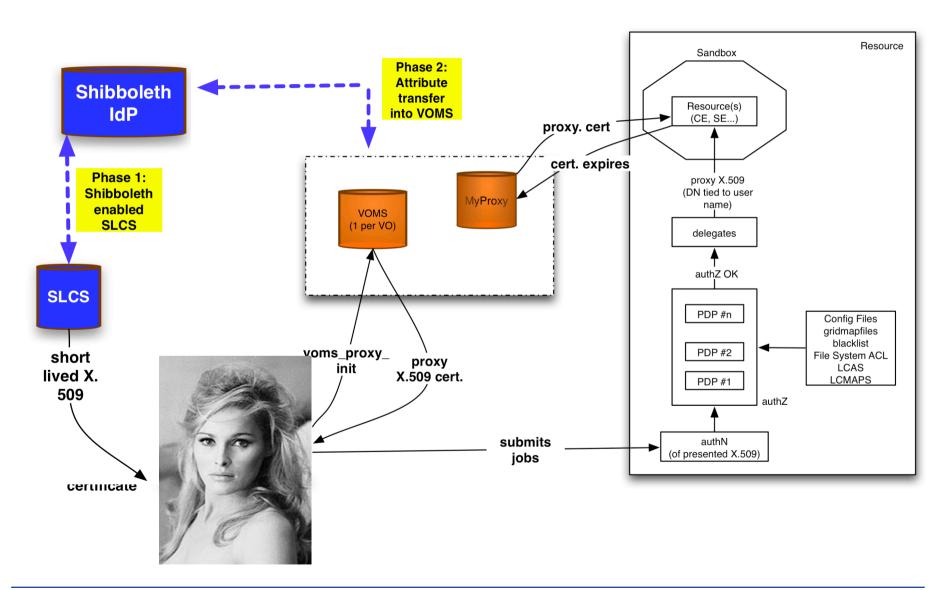


- April 2006 April 2008
- SWITCH responsible for "interoperability Shibboleth gLite"
- Focus is on
 - Interoperability (NO replacement for X.509)
 - Specific for EGEE-2 infrastructure (VOMS etc) but general enough such that it can be extended to other grids
- Key Concepts:
 - Home institution of the user should be the Identity Provider
 - Home institution provides some attributes
 - But VO is needed for (grid specific) attributes

AA on the Grid



The Swiss Education & Research Network



SWITCHslcs



- SLCS = short lived credential service
- A Shibboleth SP
 - One per federation
 - Operated by SWITCH
- Issues a X.509 credential to a user upon successful authentication at the IdP
- Short-lived credentials are specifically targeted for use in the grid environment

SLCS Profile



SLCS = Short-lived Credential Service: IGTF profile

• Minimum requirements:

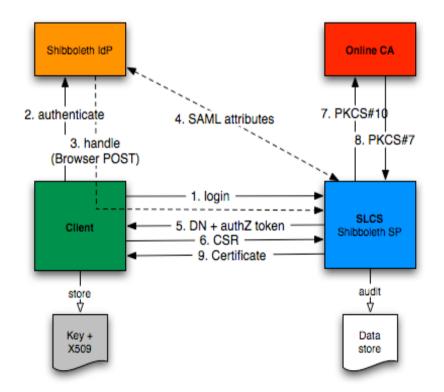
SLCS	Traditional user certificates
Automated generation based on user management system	"Traditional" RA (e.g. copy of passport)
Lifetime < 1mio sec	Lifetime < 1year + 1month
Revocation handling optional	Revocation handling mandatory

How the SLCS works...



Design goals:

- Private key is never transferred
- Use commercial CA and only standard protocols
- Modular design such that other people can use components



SLCS: User's View



From the user's perspective:

- obtains a short-lived certificates (<11 days) upon execution of a shell command
- no need to worry about the private key
- no need to copy private key and certificate to every host he/she uses
- no need to re-new certificate once it is about to expire
- free of charge
- independent of grid middleware

• Prerequisites:

- User has to have an SWITCHaai account
- Registration step at his home organization
 - Home org admin enables access through a web interface

Schedule:

- Operates in test mode now
- Home Org administrators and RA operators are being contacted in December/January
- EUGRIDPMA accreditation in early 2007

Summary



 SWITCH developed as part of EGEE-II a short lived credential service (SWITCHsIcs), which allows SWITCHaai users access to Grid infrastructures

 Service currently operates in a test mode, until it is accredited by the EUGRIDPMA (IGTF)

 Authorization based on SWITCHaai attributes will be added in Q1 2007 by transferring SWICHaai attributes into Grid proxy X.509 certificates through VOMS