

Campus Middleware Issues

Torbjörn Wiberg
100216, tf-emc2, Wien



Still fewer Campus students

- The percentage of students that choose to show up on campus continues to decrease
- 1999 40%
- 2009 60%
- 2010 70%
- What consequences are there of the fact that there are both campus and distance students on every course



Middleware Issues

- Initial identification
 - LOA consequences
- Quick distribution of credentials
- Handle Ids from different IdPs
- Reset a password
- Eduroam roaming



Middleware Issues

- Design and deploy of a campus middleware **infrastructure**
- Increased efficiency and flexibility in the IdM process
- Become a federation member, understand and exploit the possibilities with federations
- Moving focus from...
 - authentication to authorisation
 - directories to metadirectories



Campus middleware infrastructure

- = Dir+IdM+Metadirectory+AuthnS+AuthrS
- Deployment slow
- How can we ensure that we have authoritative information in our enterprise database
- Metadirectory issues are complicated
- Boundaries between objects are up for discussion whenever there is a need to update or further develop a system component



Torbjörn Wiberg



IdM process issues

- We are building a monumental dependence on working middleware
- We need to manage and secure the quality of every connection with or between our business systems



Torbjörn Wiberg



Technical Issues

- The number of systems integrated increases quickly
 - raising the requirements on planning the system maintenance process
 - Group and role management is an increasingly important support function as the number of users of enterprise systems increases
 - provisioning and attribute services
 - cms, lms, cscw, business systems



Roaming

- There will be an increased focus on the student *at home, in campus town and on travel*
 - On campus is about done
 - Negotiations – slow progress



Federation Issues

- non-technical issues dominating
 - what services are of interest
 - *how* do we provide *what* authorisation information to service providers
 - internal and external service providers
 - Is the NREN internal or external?



Torbjörn Wiberg



From Authn to Authr

- Again: The technology is not the bottleneck
 - *Within* an institution – each system owner wants system specific attributes for authr
 - *Between* institutions – the community is waking up, and becoming aware of the fact that there are more attributes to discuss than eduPersonAffiliation (even though there still are things to discuss about that)



Torbjörn Wiberg



LOA

- There are two perspectives
 - from the IdP – who wants to say that they issue eIDs at a certain LOA
 - from the System – who wants to decide what LOA constitutes a risk they are prepared to take for each operation different eIDs
- ... and two documents
 - The NIST Special Publication 800-63
 - Reference:M-04-04, Memorandum to the heads of all departments and agencies



Torbjörn Wiberg

