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Bringing Middleware Technologies to the CAMPUS

TERENA Activities and Overview of Middleware Activities in Europe



Contents

- > What is TERENA
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- > TERENA's support to middleware activities in Europe
 - **CAMP**
 - **MiniCAMP**



What is TERENA

- > TERENA is an European association of research and education networking organisations
 - not for profit organisation
- 33 National Members (including CYNET)
- > www.terena.nl/about/membermap.html
- > 2 International Members: CERN, ESA
- > 10 Associate Members (including DANTE, NORDUnet, equipment vendors and telecommunications operators)



TERENA Mission

- > TERENA's role is
 - bringing together technical experts, managers and other people from the research networking community and assist them to work together on the things they are interested in
- > TERENA activities are open to everyone
 - TERENA community is wider than the TERENA membership
 - Activities span over different field
- TERENA is in a good position to foster collaboration

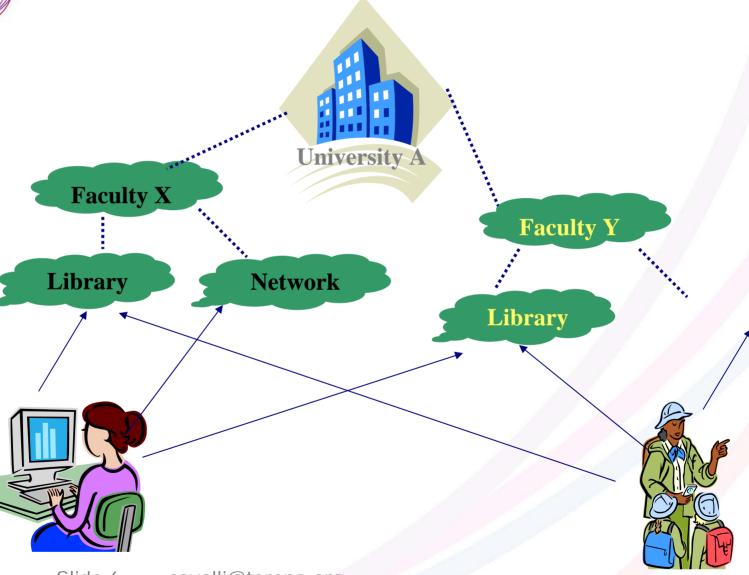


Middleware Landscape in Europe -**Background**

- In the beginning AAI
 - infrastructure to allow users to access resources via digital Ids
- > Then users' needs increased
 - Need to access resources distributed among different departments
 - > Need to access resources from different universities
 - Mobility of the users
 - > Grids
- Agreements between the parts involved needed

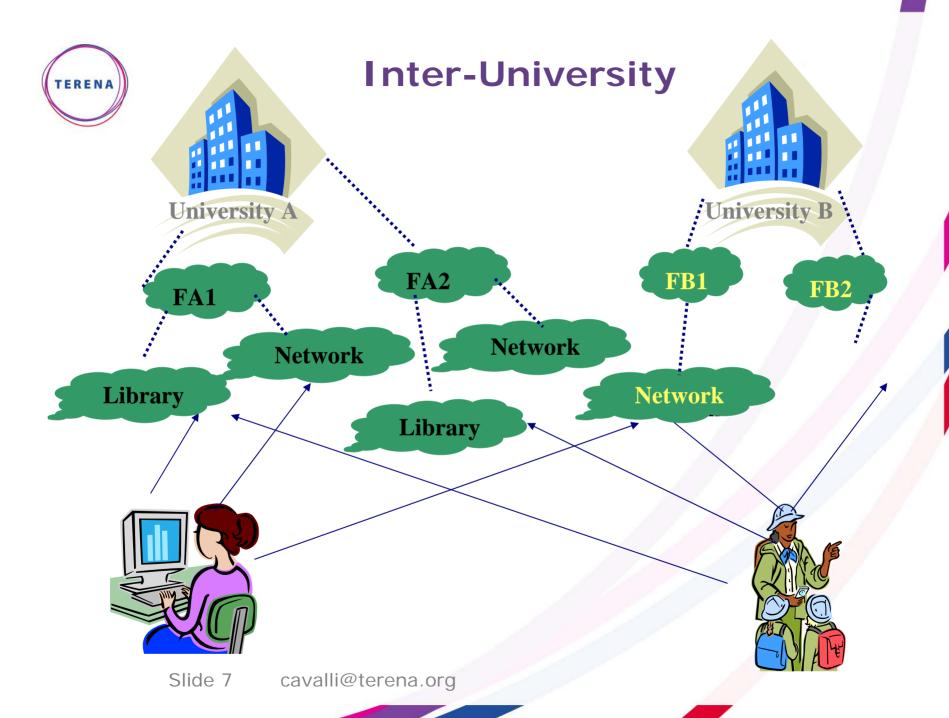


Inter-Faculty



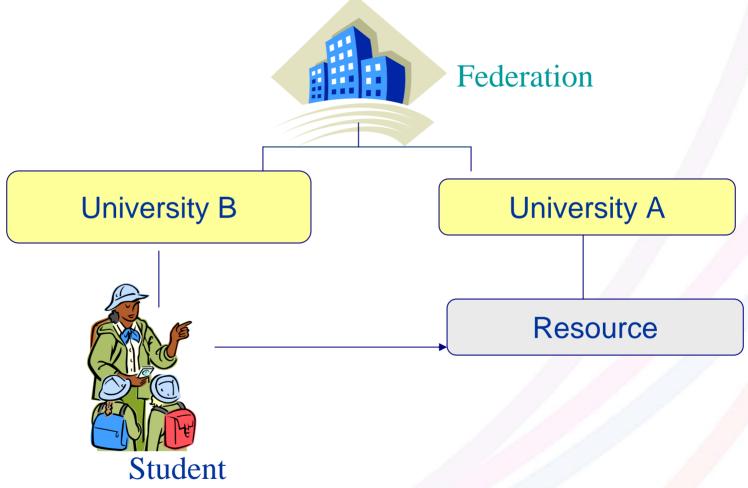
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Federation





What is a Federation?

- Federation is a group subscribing to a common agreed policy to share/access resources
- Joining a federation means
 - joining a 'club' with known rules (policy)
 - y getting some privileges
 - simplified access to shared resources
 - > agreeing on common technologies
 - to allow for inter-operability



Why do we Need Federations?

- > Enable the sharing of educational resources
 - > Network
 - > Applications
 - Online learning systems
 - > Libraries
- > Allow to reduce the number of agreements



Federated Application (Web) Access

- Single Sign on Systems :
 - Shibboleth (USA, Australia, Finland, Switzerland, UK etc.)
 - > PAPI (Spain, Poland)
 - A-Select (Netherlands, Australia)
 - > FEIDE/Liberty Alliance (Norway)
- > Common language: SAML



Federated Network Access

> eduroam

- > eduroam federations are established at national level
- eduroam is in fact a federation of federations
 - > confederation
- > more to come later @



TERENA Middleware Activities

- > TERENA provides support for the middleware activities
 - Via Task Forces (open to anybody)
 - > TF-Mobility
 - > TF-EMC2
- > Via services such as
 - > Server Certificate Service (SCS)
 - Schema HArmonisation Committee (SCHAC)
 - > TERENA Academic CA Repository (TACAR)
- > Workshops
 - > EuroCAMP (18-19 October, Malaga)
 - > NRFN-Grids



- What is it about?
 - > Service...of course ;-) in short SCS
- > To issue server certificates
 - > popup free
 - > unlimited number
 - > Very low price
 - (price is not per certificate)
- > For whom?
 - > For the National Research and Education Network community in Europe
- > 11 NRENs + TERENA involved



- > Workshops to promote the use of middleware technologies in the Campuses
- > Four workshops Fifth April 2007
 - **IdM** systems
 - > Federations
- > MiniCAMPs
 - organised as part of GEANT2/NA4 project
 - focus on eduroam so far



Conclusions

- > Federations are the future
 - > Campuses/universities need to be involved
 - setting up IdMs is the first step to make life easier
 - Campuses need to talk to their NRENs
- > TERENA wants to promote cooperation and help the campuses



- > TF-Mobility
- www.terena.nl/activities/tf-mobility
- > eduroam
- > www.eduroam.org
- > TF-EMC2
- www.terena.nl/activities/tf-emc2
- www.terena.nl/activities/eurocamp/
- www.terena.nl/activities/nrens-n-grids/workshop-03/
- > TACAR
- > www.tacar.org
- > SCHAC
- www.terena.nl/activities/tf-emc2/schac.html
- > SCS
- www.terena.nl/activities/tf-emc2/scs.html
- GÉANT2/JRA5
- www.geant2.net/ (click on research)