Bringing Middleware Technologies to the CAMPUS

TERENA Activities and Overview of Middleware Activities in Europe
Contents

› What is TERENA
› Middleware European updates
› 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
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)
  › 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)
  › NREN-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
EuroCAMP

› 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
Links

› 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)