



GRID Middleware Workshop Summary

APAN 23

Jan 25 2007

Summary points from Today's Grid Middleware session

- **Grid Middleware Application talks**

- **Pilot: Philippines Grid Program Activities** – Agricultural biotechnology research data sets need backup, reliability, standard formats, visualisation and organisation and support for collaboration. Proposed project to create national grid projects in HPC and Bioinformatics, aim to build infrastructure, promote it and train researchers, lay groundwork for international participation.
- **Pilot: Thailand medical grid** – A test bed pilot that tests access to patient data records and large data files, using std metadata (HL7), grid computing and security and ftp. Aim to apply distributed information systems to share resources via VOs. Architecture uses XML and has a module planned for DRM. The pilot is a step in advance of Thailand's R&E network roll out.
- **Deployment/Development: NIMROD** – goal to develop applications for modern e-science and e-research, to access, analyse, publish data sets. There's a semantic gap between application developers and middleware developers. NIMROD is "upper middleware" based on a portal and workflow to help users make use of grid apps in a scalable, secure way.

Summary points from Today's Grid Middleware session

- **HE & research infrastructure middleware talks**
 - **Shibboleth, PKI and the Grid** – Overview of the infrastructure side on identity management with shibboleth (local authentication, with federations to access online content and services from anywhere), to save on account management overheads in a secure, scalable way.
 - **A privacy oriented exchange in Shibboleth** – Update on an extension of attribute exchange in shibboleth to reduce access to detailed information which could compromise privacy and added features to publish reasons of “unanswerable” and “deny” through extensions to the schema and responses to inform the end user and give them an option to release their attributes or identify other issues that prevent authorization.
 - **Eduroam Japan Update** – UKPI has worked on university authentication between universities, eduroam is part of a CSI project. Eduroam JP network connects to two APAN regional servers located in Australia and Hong Kong. Participant list is written by XML for future web applications. www.eduroam.jp/ Conventional wi-fi roaming lies in traceability of an IP address allocated from a visited organisation by a guest user, analysis costs of user tracking is costly and expensive, other issues is that access to resources is an issue. Japan want a VPN only protocol for authorized access, this is a proposal at the present time. Eduroam proposal to discuss with other eduroam regions and propose traceability development to match RADIUS/IP/MAC address info.



Middleware Working Group next steps

Work to do 1

- Update the web page to link to specific “past presentations” in subject and country specific index
- Update web page with more links to middleware work
- Engage more on the mailing list
 - please ask questions, let's help each other solve problems
 - Please add staff responsible for identity mgt to discuss technical issues

Work to do 2

- Eduroam: Do we want to host eduroam access formally at next APAN? If so who can champion and support?
- Host 2 tutorials on identity access management via video (record and archive) in March and May
- Next APAN session
 - Split into middleware for mobile wireless and infrastructure
 - More time to discuss issues
 - More time to agree on participation in middleware activities

Next APAN Meeting

APAN 24 – China: Suggested topics, is there anything else?

Suggested Topics	Presenters (Organisation/Name)
Middleware for Mobile Networks	
Eduroam case studies Eduroam practical? Eduroam policy for APAN region? Eduroam next generation developments in Europe/USA Other wireless authentication/authorization/security	
Infrastructure Middleware	
Identity Access Mgt Solutions: Shibboleth/EDUGAIN etc DAME / MACE PKI	