

e-Infrastructure Programme

e-Infrastructure Security Call (September 2006)

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- Introduction to e-Infrastructure Security
- September 2006 Call:
 - Background
 - Community involvement
 - Aims
 - Call areas
 - Funding and timescales
 - Other considerations
 - Expected outcomes
- Questions

- One of the four themes of e-Infrastructure
- Split into four areas:
 - Identity management and levels of assurance (IM & LOA)
 - Core functions
 - Developing and enhancing federated tools and services
 - Virtual Organisation authorisation and management tools and services
- Part of the ongoing work by JISC on security and access management
- Builds on the existing work in Core Middleware
- Links with the Transition to Federation programme

- Recommendations for work have been shaped within the access management community:
 - Wish list from existing Core Middleware programmes in JISC;
 - JSR and, specifically, the security champion;
 - Programme Advisory Board;
 - Extensive community consultation in the UK earlier this year;
 - Liaison with international leaders in access management technology and policy, such as SWITCH and Internet2;
 - Feedback from mailing lists;
 - Feedback from meetings and events;

- Identity management and levels of assurance call has already been issued and projects chosen
- UK AM Federation covers access to resources and basic authentication
- Increasingly a demand for:
 - More advanced federated tools and services to deal with issues such as n-tier delegation
 - Tools to create and manage virtual organisations (VOs)
- Whilst there has been some experimentation in this space, work is needed to consolidate in the UK
- International efforts are focusing on similar areas, meaning a great deal of potential for join-up
- Commercial efforts are also increasing within this area, such as Liberty Alliance

- Get existing work to a service-ready status, where possible
- Where there needs to be further investigative work then carry this out
- Consolidate and build on what is already there – don't re-invent
- Contribute to other areas of the programme and the UK AM Federation

- Federated Tools and Services:
 - Integration of Grid and Shibboleth and vice versa
 - Developing and applying n-tier web service architectures
 - Applying existing virtual home for identity solutions
- Virtual Organisation Management Tools and Services:
 - Tools for the establishment of Virtual Organisations (VOs)
 - Services and User Interfaces (UIs) for management of VOs
 - Federation membership models for VOs
 - Delegated authorisation

- c. £1,500,000 in total
 - c. £975,000 for around five projects in federated tools and services
 - c. £525,000 for around five projects in virtual organisation management tools and services
- Two year duration for both strands with no extension possible so build in contingency
- Teams can bid for more than one area but must work with the other project teams
- JISC reserve the right not to allocate the full amount

- ‘Service ready’ demonstrators of Grid Shib and Shib Grid integration
- n-Tier ‘proof of concept’ demonstrators to establish national consensus
- R&D demonstrators of applied virtual home for identities solutions
- Recommendation report for best practice use of virtual home for identities
- Establishment of a virtual home for identities service

- Demonstrators of VO creation tools
- Recommendation report on best existing VO creation tools
- Exemplar service for VO management
- Events and publicity to establish consensus on federation membership models
- Report on federation membership models
- Demonstrators of delegated authorisation
- Recommendation report on delegated authorisation

- Contribute to the e-Framework for Research and Education
 - SUMs
 - Services that are not already included
- Use of open standards
- 'Service ready' outputs
- Support for JISC dissemination activities
- Availability of software and information to the community
- Support for other areas of the JISC e-Infrastructure programme
- Support for other JISC programmes, such as VRE

■ Outcomes

- Enhanced security for the UK infrastructure
- Consensus on key issues such as where and how to use virtual homes for identities
- Greater use of virtual organisations, particularly amongst ‘new’ communities such as the arts and humanities
- A wider range of security models, enabling a wider range of applications with differing security requirements
- Increased trust in the Grid for use of sensitive data

- Questions and answers on the call

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- e-Infrastructure Programme - http://www.jisc.ac.uk/programme_einfrastructure.html
- JISC Capital Programme - <http://www.jisc.ac.uk/capital.html>
- Get more information on the UK AM Federation at <http://www.ukfederation.org.uk/>
- Sign up to the Core Middleware Development list at <http://www.jiscmail.ac.uk/cgi-bin/webadmin?SUBED1=jisc-middleware-development&A=1>
- Sign up to the UK Federation list at <http://www.jiscmail.ac.uk/cgi-bin/webadmin?SUBED1=ukfederation-announce&A=1>