

Monthly Report	Version: September
MAMS Mini-grant Project	Date: 11/092006

## MAMS Mini-grant Project

### 1. Vision

The goal of this project is to provide a secured federated authentication and authorisation infrastructure interface for the E-Research Grid services for DART and LIEF funded Data Grid projects. This infrastructure will be extended for other E-Research services at later stage.

### 2. Scope

The scope of this mini-grant testbed project is to join the MAMS federation at level 2 and provide a secured federated authentication and authorisation infrastructure interface for the services from DART and LIEF funded Data Grid projects among Monash, ANU, UQ and JCU.

### 3. Current Project Team

Name	Monash Position	MAMS Mini-grant project role
Leon Troeth	Manager, ITS Identity & Messaging Services	Chief Investigator
A.B.M. Russel	Software Specialist (E-Research), Shared Systems, ITS Division DART Lead Investigator SI-7 WP	Chief Investigator, Project Leader Service Providers
Lawrie Hanson	Team Leader, Registration and Authentication Services, ITS Identity & Messaging Services	Lead Investigator , Project Leader Identity Providers
Michael Guenzel	Administrator Developer, Registration and Authentication Services, ITS Identity & Messaging Services	Developer, Identity Providers
	Systems & Interface programmer	Developer(s), Service Providers

### 4. Shibbolizing E-Research Grid Services

As part of the DART and LIEF funded Data Grid projects, Monash is developing pilot services which use GT4, MyProxy and SRB as core Grid middleware. Some of these services will be shibbolized using MAMS IAM suit as part of this grant.

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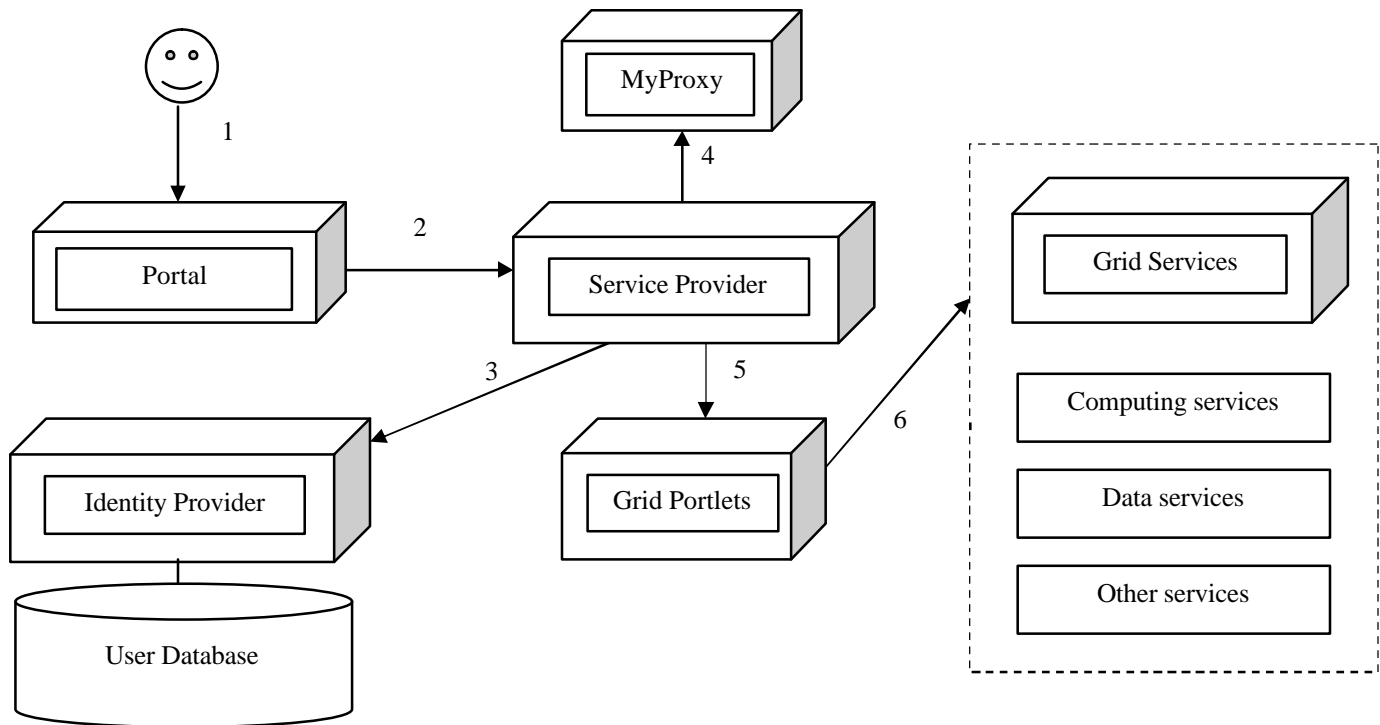
#### 4.1 Monash Identity Provider

This project aims to develop a production Identity Provider for Monash University at level 2 including seventy thousands Monash users. IdP maintains users database with attributes and maintains Attribute Release Policies. It is the central user database which will release attributed to multiple numbers of trusted Service Provides [internal or external].

#### 4.2 Monash Service Provider

This project aims for developing shibbolized Service Provider for some of the pilot services from the above mentioned projects. This includes development of shibbolized Gridsphere framework to provide federated authentication and authorisation infrastructure interface for the E-Research Grid services. SP provides role based Access Control including service description, Service level, SP roles for authorization, service provisioning, and publish services to federation.

### 5. Project Architecture



#### Steps:

- 1: Access to portal Service Provider via portal
- 2: Delegate Authentication
- 3: Authentication & Attribute retrieve & transfer
- 4: Retrieve Proxy certificate
- 5: Proxy certificate to Grid portal/portlet server for accessing Grid services
- 6: Access Grid services

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## **6. Current Status & Issues**

### **6.1 Service Provider**

- Designed the SSO Service Provider architecture for the E-Research Grid services.
- Deploying the shibbolized Gridsphere portal framework.
- Recruited Systems & Interface programmers for developing the service provider.
- Monash Grid CA is now trusting MAMS CA for testing purposes till December, 2006.
- Created and mapped an account for MAMS Myproxy developer [Mr. Buce Lee] at Monash with restricted privilege.
- Implement and test the standard MAMS Shibboleth SP distribution is the next milestone.

### **6.2 Identity Provider**

- Implement and test the standard MAMS Shibboleth IdP distribution.
- Local customization and standard is that all “non systems” applications are by convention stored under /net rather than /usr and so on and documenting differences and solutions.
- Join the Federation both at level 1 and then at level 2 and the system will then be moved from development into production. This will include the usual niceties such failover, log rotation and backups etc.
- Still experiencing issues with respect to implementing the IdP under Red Hat. They mostly revolve around the integration of Apache, Tomcat, JK2 connector, etc. We have resolved a number of issues but as yet do not have a working implementation.
- Current problem with IdP is to resolve the SSO issues with other IdP sites.