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ARCS Data Fabric

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The Australian Research Collaboration Service (ARCS) has implemented the Data Fabric using SRB. We are able to use Shibboleth authentication with the use of Short Lived Certificate Service (SLCS) to create GSI credentials. The SRB server is also modified such that we have automatic account creation for users from trusted Identity Providers (IdP). We have also built usage scripts that will keep a history if the federation's usage.

With the release of iRODS 2.0, the data fabric will now be migrated to iRODS. Initial evaluation of the migration process is now complete. We have been working with iRODS developers to enable automatic account creation in iRODS. As part of the migration process, we are moving our usage scripts written to iRODS. I will discuss our experience with the migration process.

ARCS is also developing software for accessing the data fabric –Hermes and Davis. Hermes is a Java application designed to work with commons virtual file systems (commons-vfs), for which, new providers are added for SRB and iRODS. Davis is a Java servlet that uses the open standard WebDAV protocol. Client software is already part of many operating systems and this simplifies access to SRB and iRODS.

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Classification de Session: Talks from various projects