

Choosing Grid Technology for Access to Neutron Beam Instruments and Data at ANSTO

Workshop 12th December, 2005

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Recommendations

It was recommended by the members of the workshop to implement the following GRID technologies to support the requirements of the ANSTO facility and users of the facility.

To provide access to data, applications and instruments similar to that being provided by ISIS under the UK eScience program and SNS Oak Ridge National Laboratory under the TeraGrid program, the following recommendation are made.

Publish data

1. Copy data to GRID infrastructure outside ANSTO. Implementation of this to be determined in collaboration with APAC
2. Develop a user & data policy compatible with point 1.
3. Interim identity management: Use ldap & tokens at ANSTO. Map ANSTO identity to APAC identity.
4. Long term identity management: Use national identity management when it becomes available

Access to applications

5. Data analysis application delivery via JSR168 compliant portal e.g. Gridsphere, Oracle JPS1.0 etc.

Remote access to instruments

6. Integration of CIMA technology into the ANSTO instrument control program SICS