
FermiGrid Project Status

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FermiGrid – Four Equal Elements

FermiGrid Common Grid Services:

- Supporting common Grid services to aid in the development and deployment of Grid computing infrastructure by the supported experiments at FNAL

FermiGrid Stakeholder Bilateral Interoperability:

- Facilitating the shared use of central and experiment controlled computing facilities by supported experiments at FNAL
 - CDF, D0, CMS, GP Farms.

FermiGrid Development of OSG Interfaces for Fermilab:

- Enabling the opportunistic use of FNAL computing resources through Open Science Grid (OSG) interfaces.

FermiGrid Exposure of the Permanent Storage System:

- Enable the opportunistic use of FNAL storage resources (STKEN) through Open Science Grid (OSG) interfaces

FermiGrid – Common Grid Services – Status

FermiGrid 1,2,3 are in operation hosting the following services:

- The “site wide” globus gateway on fermigrd1;
- VOMS / VOMRS on fermigrd2 (aka voms.fnal.gov);
- GUMS on fermigrd3 (aka gums.fnal.gov).

The SDSS VO has published voms.fnal.gov as their authoritative VOMS server.

FermiGrid Web Page was commissioned on May 25, 2005:

- <http://fermigrd.fnal.gov/>
- Web pages contain both “informational” and “monitoring” content.
- More metrics will be added.

FermiGrid – Stakeholder Discussions

FermiGrid stakeholder meetings are regularly taking place on every other week in FCC1 on Mondays at 3:00pm (following the CD computer room planning meeting).

FermiGrid has applied for and been granted an exemption to the Kerberos requirement while work proceeds on defining the necessary and appropriate policies for the “Open Science Enclave”.

The computer security team (Mark Leininger) has proposed that operation and support of the Fermilab Site AuthoriZation service (SAZ) move from the CST and into FermiGrid.

- This appears to be a good fit, given the envisioned changes to the role of the SAZ service;
- We will need to acquire some hardware (~\$6K of equipment) to move the SAZ service off of the KDC.

FermiGrid – What is Next ?

Integration testing with the Open Science Grid and the GP Farms is ongoing.

Integration with D0 SAMGrid will take place following the GP Farms (??June 2005??).

FermiGrid – Milestones & Time Line

- End Feb 2005: Hardware installation.
Begin software installation and initial configuration.
- May 2005: Common Grid Services (CGS) available in non-redundant mode (VOMS, GUMS, Condor, etc.).
- Current: “Gridify” the GP Farms to work with the FermiGrid CGS and open the GP Farms to the OSG through the Globus Gatekeeper on FermiGrid1.
- ?June 2005?: Work with D0 to transition D0 SamGrid from static gridmap files to use FermiGrid CGS.
- ?Aug 2005?: Work with other Fermilab resources to integrate them into the FermiGrid CGS.

FermiGrid – Fin

Any questions?