

Computing Division
Common Projects
Stakeholder Report to the GDM

Ruth, in my role as
CD Grid Coordinator and Program Support

Drivers

To deliver to the mission of the Computing Division and maximize the effectiveness, deliverables to the Stakeholders in the Fermilab Program.

2004 list + 1 - 2:

- Maintain Stable and Efficient Operations
 - Computing Facility capacity expansion that meets Stakeholder needs
 - Distributed permanent & custodial data storage not only at FCC (merge into driver above)
 - Good Internetworking with Present and Potential Partners
 - Timely Deployments
 - Distributed, diversely located, persistent data store
 - **Secure and safe operation of Fermilab Grid Facilities (added)**
- Increase Effective use of Resources across the Stakeholders
 - Inter-VO grid access to Fermilab resources
 - Common Job Submission and Management services
 - Minimize operational and deployment loads
 - Cross VO access to event generation data (patriot)
 - Common Data Management Services
 - Fermilab Computing and Strategic Storage resources accessible to Open Science Grid
 - Common and/or interoperable Services with OSG and LCG

Successfully delivering to these goals depends on (nearly?) all projects in the GDM

Priorities ?

High:

- Secure and safe operation of Fermilab Grid Facilities
- Good Internetworking with Present and Potential Partners
- Timely Deployments
- Minimize operational and deployment loads
- Increase our effective use of resources across our stakeholders

Medium:

- Inter-VO grid access to Fermilab resources
- Fermilab Computing and Strategic Storage resources accessible to Open Science Grid
- Common and/or interoperable Services with OSG and LCG

Less High:

- Distributed, diversely located, persistent data store
- Common Data Management Services
- Common Job Submission and Management services
- Cross VO access to event generation data (patriot)

Status for selected Drivers

- Secure and safe operation of Fermilab Grid Facilities:
 - Discussions in CS exec, VO privilege, FermiGrid meetings. We had Grid Security meetings a while back. Is it worth/appropriate to revisit these?
- Good Internetworking with Present and Potential Partners
 - Benefiting from work of wan research demonstrated for US-LCG Service Challenges.
- Timely Deployments
 - The Division Head works with the Stakeholders and Projects to provide additional effort and direction as needed. Special project for CDF SamGrid deployment - to be reported at next weeks GDM.
- Minimize operational and deployment loads
 - Separating effort reporting into operations and development is helping us understand this better.
- Inter-VO grid access to Fermilab resources
 - Progress through effort in D0, Samgrid, FermiGrid, VO Management & US CMS S&C.
- Fermilab Computing and Strategic Storage resources accessible to Open Science Grid
 - Benefiting from work in FermiGrid, Upper Storage, VO services, SAMGrid, US CMS S&C.

Status cont

- Common Data Management Services
 - The new GridFTP is released in VDT. Should we have a program of work to test it for our stakeholders.
 - Reliable File Transfer Service - being proposed as a baseline service by LCG using EGEE implementation. Do we have any stake in this
- Common Job Submission and Management services
 - All stakeholders use Condor-G and Grid- monitor.
 - When is it time to start more detailed discussions in CD:
 - As deploy SamGRID on common infrastructure better understanding of utility of smart job manager emerging. LCG also deploys their own job manager. Emergence of Condor-C will impact this area.
- Cross VO access to event generation data (patriot)
 - Hmm. include patriot as a project to report to GDM?

Current Needs

- The new Grid Accounting project has been formed as a result of CD, & experiment drivers.
- There are other areas of work that are needed to meet the CD drivers, for which at the moment there are no defined common projects. I think identified projects for Security and for Information Services are the next priorities.
 - Security is handled partly? All? By the security executive and working groups?
 - Information Services (including monitoring?) - I have asked to start talking about this in FermiGrid.

Risks

- Diverse timelines and milestones of the individual stakeholders do not support common solutions.
- Insufficient time and effort for the up front and ongoing analysis, review and negotiation needed to bring different groups to an agreed upon common path.
- Overhead of negotiation for common solutions prevents agility (nimbleness) in developing or adopting newer better solutions.