Gag and US Middleware Projects

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US History with Hepcal

- US response to HEPCAL use cases
  http://www.hicb.org/glue/ushepcal_response_v3.doc
- Joint EU-US response to HEPCAL use cases
  http://www.hicb.org/glue/jointhepcal-response_v8.doc
- Identified areas needing more attention
  - Performance Metrics
  - Virtual organization use cases.
  - More comprehensive treatment of deviant flows and errors.
  - Need system and site administrator use cases,
  - Software deployment, versioning, configuration.

Testing of Use Cases

- Jeff especially raised issue of testing Use Cases
  - Globus has test harness developed within iVDGL. Available in VDT and from globus.
  - Joint LCG-iVDGL testing and verification project established. Only testing at the core middleware levels to date.
  - CMS Simulation production used as regression test for VDT - run across 5 sites, every day, log files mined for problems and addressed by condor team.

Grid Activities Group - US participation

- Members from US ATLAS (Dave) and CMS (Rick).
- Member representing Core Middleware Groups - me for the moment.
- Federico and I have both being saying for a long while there is
  - Application Infrastructure which is below the Applications, above the Core Middleware and which needs Use Cases and will benefit from common approaches and tools
- GAG should define and then test common use cases at the Application Infrastructure Layers
  - Data handling and management
  - Analysis use cases.
  - ..

Other US Middleware Grid Project activities in this area:

- US Large ITR addresses Dynamic Workspace Environments for Analysis. We need use cases and want to work within GAG to develop them.
- GriPhyN virtual data system available for testing/use.
- PPDG CS-11 talking about interactive analysis with current/medium term technologies.
- PPDG CS-12 increased interest in catalog services and grid enabling mysql? Some discussion with US experiments.
- PPDG CS-13 troubleshooting. Report from last years workshop defines requirements and needed areas of attention. Pilot projects to be defined.