WLCG Technical Forum

- Discuss issues for improvement between WLCG stakeholders
  - Provide input on a common WLCG position to EGEE, EGI, OSG, …
- Also longer term needs w.r.t. services and middleware
  - Sustainability and evolution of the existing middleware in the light of changing technologies and experience
- Can we think (again) of common solutions in areas where existing practice is weak?
- Needs to represent all the stakeholders
  - Experiments, sites, grid projects, …
  - Bring in the appropriate experts depending on the topic
- Does not take decisions
  - Should produce clear documents for discussion in the GDB, and potential agreement in the MB

Mandate

- Provide detailed technical feedback and requirements on grid middleware and services, providing the WLCG position on technical issues
  - Functionality, stability, performance, administration, ease
  - Interfaces, architecture, suitability
  - Maintainability, portability, standards compliance
- Advise the MB on grid middleware and service needs and problems.

- Discuss the evolution and development of middleware and services, driving common solutions where possible.

- Prioritize needs and requirements.

Membership

- Experiments
  - Various representatives per experiment
- Sites
  - Tier 0
  - All Tier 1s
  - Significant number of Tier 2s with different setups
- Infrastructures
  - EGEE/EGI, OSG, ARC
- Experts
  - Typically brought in as needed
- Members must have the mandate to speak for their communities

Some Topics

- Data management
  - Review where we are with SRM vs. actual needs
  - More...
- Analysis model topics
- Support for virtualization
- Pilot jobs support

- Technical input to EGI discussions
  - Needs from the NGIs
  - Input to proposal for the SSC for HEP
  - Input to the middleware discussion
    - We need to be explicit and clear about the WLCG needs in the near future

Data Management

- Efficient, scalable data access by jobs ← STEP'09 outcome!
  - Local vs. remote
  - Protocols
  - Throttling
  - T3 farms vs. T2 load
- ACLs
- Quotas
- SRM
- Xrootd
- GPFS, Lustre, NFSv4, Hadoop, REDDNet, …
  - File protocol
  - Clouds
- Issues specific to some implementation(s)
  - BeStMan, CASTOR, dCache, DPM, StoRM

Job Management

- CREAM
- WMS
- ARC
- Condor-G,-C, GT4
- MyProxy failover
- Pilot jobs
  - Glexec
  - Frameworks
- Virtualization
- Clouds
- Shared SW area scalability
  - ALICE: BitTorrent
- PROOF

And more…

- Security
  - Vulnerabilities
  - Consistency

- Information system
  - Fail-over
  - GLUE 2.0
- Monitoring
  - Jobs
  - Consistency, consolidation

- Accounting
  - Messaging system
  - Storage