

OSG

Area Coordinator's Report: Workload Management

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Overview

Workload Management

- **Current Initiatives:** extensions of the Panda job aggregation and submission service, in particular data movement and security enhancements
 - The Generic Panda Data Mover: integration with LFC (file catalog). Coming HTTPS interface to LFC (Charles Waldman, UC) – flexible, portable.
 - Traditional LFC client is not a part of VDT hence maintenance could potentially be a problem (would need to rebuild binaries), slight installation delay already witnessed
 - Panda Pilot for Atlas: restructuring work in the Pilot Code, to ensure operation of the existing automated data movement facility, when user identity is changed via setuid (gLExec)
 - Data movement is implemented as a separate job, own by a production account, hence the issue of identity is important
 - WLCG interoperability: establishing Panda Pilot submission to EGEE sites where SCAS has been deployed (see below)
 - Important given the SCAS mandate for EGEE sites supporting the LHC experiments
 - Continuing compliance with the WLCG pilot framework security document
 - SCAS project documented at: <https://twiki.cern.ch/twiki/bin/view/LCG/PpsPilotSCAS>
 - Submission of Panda Pilots to SCAS-enabled EGEE sites for continuous validation and shift to production mode (FZK tested, IN2P3 coming online soon with significant resources, more to follow)
 - Non-Atlas VOs:
 - Engagement activity with Nonproliferation Department at BNL, which may result in adoption of Panda for their support, depending on the eventual resource needs
 - Some progress with CHARMM MPI since last report
- **Accomplishments Since Last Report**
 - To ensure interoperability with EGEE/WLCG sites, participated in testing of the new SCAS platform developed in the last few months in WLCG
 - SCAS is Site Central Authorization Service by WLCG
 - It is in essence a better network API to pre-existing LCAS/LCMAPS
 - SCAS is envisaged as a common platform to be deployed on EGEE sites to support all of the LHC experiments, specifically the managing user identities in glexec usage scenarios (similar to GUMS)
 - Active consultations are under way (including weekly conference calls) to coordinate testing
 - Documented at: <https://twiki.cern.ch/twiki/bin/view/LCG/PPIslandKickOff>
 - WMS activity of OSG was reflected in poster presentations at CHEP'09 on gLExec/MyProxy integration, Panda Pilot Factory and glideinWMS

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- **Issues / Concerns**

- Finishing work on the Generic Panda Data Mover in a timely fashion is important for furthering our Engagement effort in the part that includes Panda
- Panda Pilot code for Atlas is complex and takes longer to restructure than we anticipated
- Both Pilot work and SCAS deployment face an aggressive schedule