

# **OSG**

## **Area Coordinator's Report: Workload Management**

April 2<sup>nd</sup>, 2009  
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# Overview

## Workload Management

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- **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). Pending HTTPS interface to LFC (Charles Waldman, UC) – flexible, portable.
    - Traditional LFC client is not a part of VDT hence maintenance would be a problem (would need to rebuild binaries)
  - 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)
  - 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 sites for continuous validation and shift to production mode
  - 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/PPiIslandKickOff>
  - WMS activity of OSG was reflected in poster presentations at CHEP'09 on Panda Pilot Factory, gLExec/MyProxy integration 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