

# GridPP Dirac Service

The 4<sup>th</sup> Dirac User Workshop

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# Why GridPP Dirac Service?

- GridPP (UK computing for Particle Physics) also supports non-LHC (“small”) VO
- Dirac is considered as a replacement for EMI WMS
- Also as a replacement for the LFC still widely used by small Vos
- One instance installed and maintained at Imperial College London:

<https://dirac.grid.hep.ph.ic.ac.uk:8443>

# Supported VOs

First installation in April 2013.

“Technical” VOs:

- [vo.londongrid.ac.uk](http://vo.londongrid.ac.uk)
- [vo.northgrid.ac.uk](http://vo.northgrid.ac.uk)
- [vo.gridpp.ac.uk](http://vo.gridpp.ac.uk)

Small experiments:

- [na62.vo.gridpp.ac.uk](http://na62.vo.gridpp.ac.uk)
- mice (planned)
- [vo.landslides.mossaic.org](http://vo.landslides.mossaic.org)
- [t2k.org](http://t2k.org)
- [cernatschool.org](http://cernatschool.org)
- [snoplus](http://snoplus)

# Resources available

- Resources support by GridPP Dirac is customer driven
- We support most of the UK EMI grid sites (CEs, SEs)
- Also support VAC virtual machines in Manchester and Oxford.  
(<http://www.gridpp.ac.uk/vac/>)

# NA62 support

- Modify NA62 jobs to run via Dirac –define sites, Ses and the dfc.
- Submit and monitor jobs
- Use Dirac to perform file management: local SE stage-out with failover, copy to RAL and CERN using asynchronous FTS requests.
- Use Dirac dfc as file and potentially metadata catalog.

# MICE

- Currently use the Grid to move raw data to Castor at RAL
- Use a similar mechanism as NA62 for off-line reconstructions (glite tool + custom FTS movement tools)
- Move to Dirac for Workload management, DFC and asynchronous FTS file movement

# Landslides VO

- A small VO to study landslides
- They used their own Dirac at Bristol
- Moved to the GridPP Dirac w/o major problems
- A project in hibernation at the moment

# Cernatschool VO

- Just started - added recently to the GridPP Dirac
- Enabled on a few sites in the UK
- Asked for a catalog support and SEs



# T2k.org

- Main interest expressed for a group at TRIUMF
- The required SE definitions for Imperial and RAL
- Use of the LFC
- Not much activity recently

# Dirac for small VOs future plan

- Move Workload management, file management and replication entirely to Dirac for NA62 and MICE
- Add support for cernatschool, WMS + DFC
- Extend end-user documentation in the GridPP wiki.