



NA4 face-to-face AWG

“ARDA and gLite”

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eGEE

Enabling Grids for
E-science in Europe

www.eu-egee.org

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Status of ARDA activities with experiments



ALICE

- Grid activity
 - Use of the gLite testbed
 - Access system to gLite services being developed (Demo available in June 2004)
This is the key layer to allow ALICE software to be effectively use their prototype (evolution of their 2003 system, using gLite and PROOF)
- Other contributions
 - The access system is a generic piece of software (plans to be used in ATLAS and metadata access)
 - Tests of the metadata capabilities of the gLite file catalogue
 - ALICE IO (aiod) → glite IO

ATLAS

- Grid Activity
 - Use of the gLite testbed
 - DIAL on gLite OK (Evolution of the DIAL demo)
 - ATHENA to gLite OK. Ready to expose to test users.
 - First skeleton of high level services
 - gLite/Don Quijote gateway (ATLAS data management system)
- Other contributions:
 - Detailed collaboration on AMI database (performance, support Oracle implementation,...)
 - Production and Combined Test Beam contributions

CMS

- Grid and other contributions:
 - Use of the gLite testbed
 - Successful ORCA job submission to gLite
 - Investigating with the package manager
 - Access to files directly from CASTOR
 - gLite file catalog tests
 - System monitoring
- Other contributions
 - RefDB studies and evolution

LHCb

- Grid activity:
 - Use of the gLite testbed
 - “Regular” DaVinci jobs onto gLite exposed to test users (outside the ARDA team)
 - DaVinci jobs from Ganga to gLite
- Other contributions:
 - GANGA release mgt and software process (CVS,...)
 - Contributions to DIRAC
 - Metadata catalogue

Next steps



- **ARDA operation mode is to get early access to the gLite middleware**
 - From the beginning (May 18th): gLite development prototype
 - 2 sites
 - Very limited CPU resources
 - Asymptotically: Pre Production Service
 - **Present situation (JRA1 development prototype):**
 - Next several weeks? Fill the gap before the PreProd service is open for ARDA
 - Enlarge the gLite development prototype
 - Contribute effort from LCG ARDA
 - Target:
 - Handful of sites
 - With access to experiments data
 - And $o(100)$ CPUs
 - **Pre Production Service (SA1):**
 - It is really interesting for us when it sports a “complete” system
 - Naturally it will provide larger scale resources (sites and CPU)
 - Absolutely needed!
 - Phased deployment starting with WMS in November
 - **Workshop** <http://lcg.web.cern.ch/LCG/peb/arda/workshops/oct04.htm>