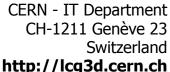




#### **Database BOF Session**

Dirk Düllmann, CERN IT

WLCG Collaboration Workshop 22nd January 2007, CERN

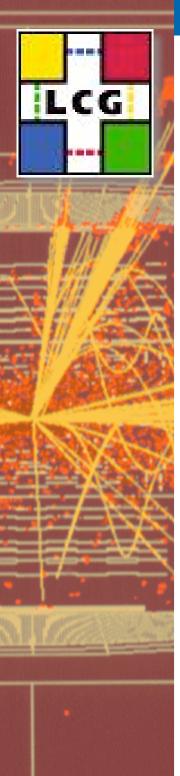






### Upcoming milestones





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- Feb/March ATLAS Conditions Data Challenge
  - All phase 1 sites expected to join
  - ATLAS grid jobs accessing Tier 1 replicas
- March All phase 2 site setups complete
  - TRIUMF, SARA, NDGF, PIC available for experiment tests
- April LHCb Conditions Deployment
  - All LHCb database sites participating
  - LHCb grid jobs accessing Tier 1 replicas
- Meeting Schedule
  - Weekly meeting with all Tier 1 sites Thu 16:00
  - Friday this week 3D mini workshop @ CERN



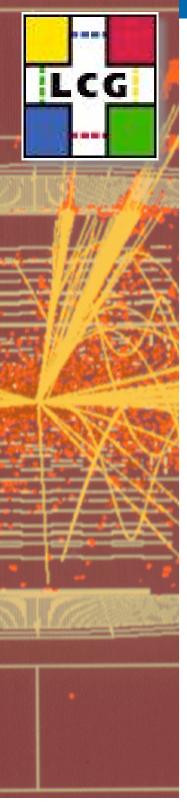


### Licenses and Support

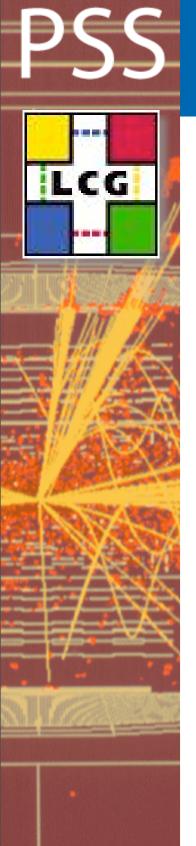




- Experiment and grid service request should be covered at all T1 sites
- License payment and signed agreement forms received from most sites
- LCG Support ID has been created by Oracle
- Now creating accounts for Oracle support (MetaLink) created for all T1 database contacts
  - access to Oracle s/w, patches, security upgrades and problem database
  - allows to file problem reports directly to Oracle



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# Security and Backup Policy Proposals



- Started discussion during September workshop at CERN
- Tier 0 backup and security policy proposals have been prepared by M. Girone
  - Proposal presented at 3D meetings
  - Need feedback from experiments and sites
- Expect to use updated/adapted proposal also for database services at tier 1 sites





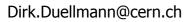
LCG

# Review of Experiment Requirements (on Friday)



- Baseline (unchanged since November '05 GDB)
  - ATLAS T1
    - 3 node db server, 300 GB usable DB space
  - LHCb T1
    - 2 node db server, 100 GB usable DB space
  - CMS T1+2
    - 2 squid server nodes, 100 GB cache space per node
- ATLAS
  - R. Hawkings collected COOL requirements and proposed a model for total volume and client accesses - preliminary number: some 1.7 GB /day
  - J. Cranshaw gave first numbers for TAGS
    - some 4 TB /year (not including indices), access not clear yet
- CMS and LHCb
  - Currently no major upgrades requested





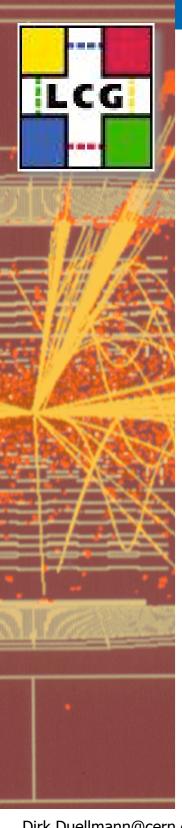


#### Implementation status at Tier 1 sites

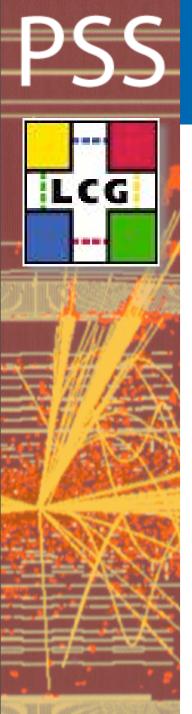




- check scalability with many clients for ATLAS
- IN2P3 provides a shared setup for ATLAS and LHCb
  - check interference between experiments
- TRIUMF is first phase 2 site ready to join!
  - SARA is currently under test, may join this month
- NDGF currently setting up a single node DB and acquiring final h/w
- PIC h/w for initial cluster available, recruiting database administrator



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## LFC replication between CERN and CNAF



- LFC replication via streams between CERN and CNAF in production since November
  - Requested by LHCb to provide read-only catalog replicas
- Stable operation without major problems
  - Several site interventions at CNAF have been performed
  - Site restart and resynchronisation worked
  - Rate compared to conditions rather low
- In contact with LHCb for adding other sites as required

