

Tier-1 Database Status for 3D

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Context

 Status of Tier-1 sites in 3D (Distributed Deployment of Databases for LCG)

Sinica, Taiwan FermiLab, USA

Sara, Netherlands Triumf, Canada

Brookhaven, USA GridKa, Germany

IN2P3, France CNAF, Italy

CSC, Finland RAL, UK

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Status

- 10 Tier-1 Sites
 - FermiLab CMS only
 - 4 out of 9 Tier-1 sites took part in first Atlas tests (TAGS and Conditions data)
 - 3 more sites now being tested
 - Final two not far behind
- Backups, monitoring and patching updates/advice on wiki and known to 3D
- 6 sites on monitoring infrastructure (Oracle Enterprise Manager)



Issues/Problems

- Hardware
 - Configuring clusters
 - Faults
- Performance
 - Network issues
- Software
 - Intelligent agent configuration
- Manpower
 - DBA is a specialist role
 - Steep learning curve for Oracle (especially Real Application Clusters)



What could be done better?

- Monitoring
 - Sharing more information and learn what is best for each site
 - More documentation on Oracle Enterprise Manager
- Email
 - List not used enough
 - Reliance on CERN
- Backups/Recovery
 - More documentation needed
- Physics
 - Relation of 3D tests to physics could be of interest
- Requirements
 - Information on concurrent database connections
 - Scheduled disk usage of experiments



Highlights

- Wiki
 - Good, with lots of information
- Experience
 - Sharing information
 - Meeting other sites
 - Weekly conference calls

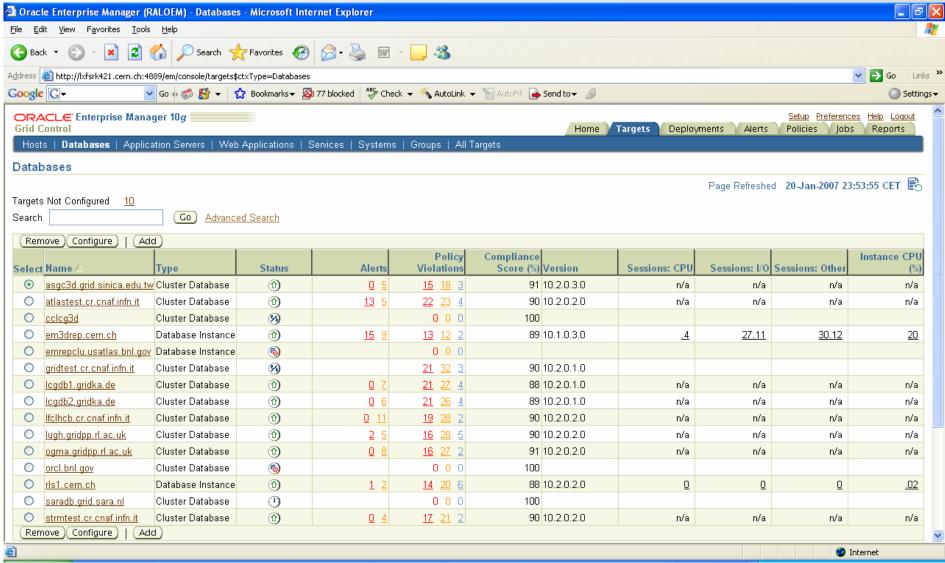
- Workshops
- Software
 - Good use of Oracle features (Streams)
- CERN Staff

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- Praise for Dirk Duellmann, Eva Dafonte Perez, Dirk Geppert and Florbela & Gancho



Central Monitoring





Questions & (hopefully) Answers

