

4. HEP-CG Workshop

13.12 - 14.12. 2007

Siegen

Extensible Metadata Catalogue



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Extensible Metadata Catalogue



- ★ Metadata catalogue key service of Latfor DataGrid (LDG)
- ★ Stable operation during recent months
- ★ Use of grid tools has become standard for a large number of lattice physicists within Europe
- ★ But: Hurdles to start using grid are still considered high
 - Obtaining grid certificate: sometimes difficult
 - Installation of grid software: easy solution provided
 - Data mark-up and upload: not trivial
- ★ More training efforts required

★ The following uses cases have recently been communicated to EGEE:

- Registering to use ILDG
 - ◆ Issue: replication of VOMS service
- Obtaining a valid X.509 certificate
 - ◆ Issue: portability of grid software, security issues
- Data management client operations on different platforms
- Search for scientific data

DESY

New Developments



★ Web-Service interface implemented

- Generic interface to different file catalogues (uses, e.g. to interface to LFC@DESY and RLS@EPCC)
- Currently only 1 lookup operation (getURL)
- Some file catalogues require authentication
→ delegation service required
- We use gLite delegation service (which turned out to have some problems ...)

★ Updated GUI based on LCG53 configuration

- Components: VDT v 1.6, LFC v 1.6.5, gfal v1.10, glite-data-dm-util v 1.6.0
- Supported linux flavours: FC3, FC6, SL3 (SL5), SLES 9, Suse 10.0 (Suse 9.2), Suse 10.2 (Suse 10.3), Ubuntu 7.10

File Replication



- ★ File replication within grid-of-grids difficult
- ★ Following concept currently under discussion:
 - Assume file has initially been uploaded to Grid A
 - Replication = Grid B pulls copy of file and registers it in local file catalogue without replicating metadata
 - Retention policy: replicas outside originating grid are assumed to have “replica quality”
 - Access control: due to incompatible AuthZ concepts a file has to be public and marked replicatable when it is replicated outside the originating grid
 - Other issues: out-of-date copies, stale copies