



## Recent Data Management Issues (1)

- Data upload from UK sites to CERN
  - <http://hepwww.rl.ac.uk/nraja/UKUploadProblems/index.html>
  - See GGUS 56117, 56128, 56154, 58605, 59422
  - Much effort by many people to understand
    - ☆ Hard to convince site people there is a problem if happening at multiple sites
    - ☆ Hard to convince middleware developers there is a problem if other VOs don't experience it
- SRM status of newly transferred T1D0 files at IN2P3
  - RAW data transferred to Tier1s and reconstruction job auto-generated
  - Misconfiguration of IN2P3 SRM results in these newly transferred RAW files to appear as UNAVAILABLE
  - Pre-scheduling job checks fail because file reported UNAVAILABLE



## Recent Data Management Issues (2)

- Overloading of DEFAULT service class at CERN
  - All jobs running through DIRAC request tURL for a given space token
    - ☆ Data read from the disk on which it is present
  - User jobs running interactively at CERN (on the whole) do not generate "full" tURLs
    - ☆ Basically PFN:/castor/cern.ch/grid
    - ☆ If they also have DEFAULT service class in their environment can cause problems?
- Using xrootd at Tier1s
  - Moved to using xrootd at CERN for all activities since a month
    - ☆ Request a root protocol tURL from the SRM
  - What protocol to request at external sites



## Recent Data Management Issues (3)

- Scalability of protocol connections to disk servers
  - During running we have experienced overloaded disk servers at several sites
  - Considering throttling data access jobs per site in DIRAC
    - ☆ This has repercussion on the use of CPU shares
- Files not existing at CNAF
  - StoRM reports "File does not exist" for a variety of reasons:
    - ☆ Authentication problems
      - \* Not using VOMS proxy
      - \* Incorrect user mappings / Permissions
    - ☆ Availability of data
      - \* File system down
      - \* GridFTP servers down/unavailable
- FTS Replication of data from SARA - RAL (see GGUS 59397)
  - Serious work by RAL and SARA admins
    - ☆ Still being investigated?