Status of the information providers for xrootd-based installations

Flavia Donno
CERN/IT-ES-VOS
Introduction

- As of today, site administrators of xrootd-based storage implementations miss tools to publish installed capacity and usage information for their storage resources.

- This concerns mainly ALICE sites but also CERN EOS.

- We have worked to develop, validate and make available information providers for wide deployment.
• Xrootd GIP provided by Claudiu Schiaua (ALICE).
• Installations at NIHAM and SUBATECH used as guinea pigs for code improvement/validation.
• Monitoring through Gstat2 also improved.
• Both sites are now validated. KIT will be validated soon. CERN EOS in the loop.
• Code ready for wide deployment.
    (install instructions)
  – http://niham.nipne.ro/NIHAM-repo/sl/5.5/source/
    (source code)
• How should this code be distributed? Support?
  – Frontier/Squid is another example.
Proposed short term improvements to the Information System

Flavia Donno
CERN/IT-ES-VOS
Introduction and goal

- From exchanges with experiments’ representatives it became clear that the mission of the WLCG Information System has changed with time.

- The attributes used by middleware, experiments, monitoring and accounting tools are mostly *discovery* or *semi-static status* information.

- It is therefore important to:
  - Improve the global reliability of the service;
  - Provide a more static view of the available resources;
  - Improve the coherence and correctness of the information used.
Proposal

• Deployment of a well managed set of top level BDII.s.
  – Technical specifications presented at last T1 Service Coordination meeting (doc in preparation).
  – Next steps: identifying candidate T1s and fail-over strategy.

• Parallel deployment of “static”/semi-dynamic top level BDII.s.
  – Technical implementation: increase validity of local cache.
  – Studying technical details/deployment strategy - risk analysis.
  – A few instances could be available in February 2011.

• Cleaning-up/consolidating IS used attributes: experiments, middleware, monitoring and accounting tools.
  – Investigating on YAIM configuration and gstat2 monitoring.