

Status of the information providers for xrootd-based installations

Flavia Donno
CERN/IT-ES-VOS

- 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.
 - <http://niham.nipne.ro/NIHAM-repo/instr.html>
(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

- 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.

- Deployment of a well managed set of top level BDIIs.
 - 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 BDIIs.
 - 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.
 - Usage patterns document in preparation.
 - Investigating on YAIM configuration and gstat2 monitoring.