

**T2_CH_CSCS input
to
Tier2-POG-PAG Meeting
Oct 16th 2008**

Derek Feichtinger (PSI)

- Assistance from central Ops: Recommended setups for storage systems
 - It would be very helpful if there was a central recommendation for the configuration of each major storage manager. Storage specialists of the experiments should try to come to a common understanding of what configurations are acceptable for their experiment.
 - Especially required for sites with more than one VO!
 - Making changes to these systems will be costly, once we have lots of valuable data and a higher pressure for delivering the service. Would be helpful to prevent this situation.
 - This will also help smaller sites with less manpower to share their resources.

- How to deal with the large throughput of data expected at a T2?
 - Need a system how to efficiently get rid of old datasets
 - Basis are **group and user space accounting tools**
 - Put as much as possible into the central PhEDEx service
 - Sites may build site specific policy stuff on top, but main information source should be PhEDEx (e.g. the web service)
 - User driven: Groups will free up space when space gets scarce
 - I would prefer an approximate lifetime date on replicas on a T2 specified by the person making a data request.
 - This field **should NOT** be connected to any automatic deletion mechanism.
 - It is just a guideline which helps the group managers / site managers to prioritize
 - It forces requestor to think about space
 - Our users already are asked to provide this value in the current comment section

- do you have a VOMS/role setup for your batch system, can you do an accounting on roles level?
 - We can (using dCache gplazmalite-vorole-mapping), but we do not yet do it for CMS.
- how do you treat CMS vs. national CMS users?
 - Identical for this moment. But we would like to have a VOMS group for being able to manage this (for a certain time we can also do this with a hardcoded user list)
- do you structure your storage space ? Any ACL protections, quota mechanism ?
 - Experiment has a number of dCache pools. Quota dictated by configured pool space. We currently have no “pool groups” representing different levels of service, or namespace slices, etc. But this has been in discussion (e.g. for higher availability of certain files, or higher data safety).

- do you have tools to provide information about used storage space, on which granularity?
 - We offer accounting on the directory level using Brian Bocklemanns *space_usage.py* tool. Even though we display this just as text output, users are immensely grateful for it.
- would you be able (also not required) / do you think it is necessary to provide backup space for the group storage directory ?
 - We had discussed this but we will not provide tape or similar. But we may use higher data safety (better RAID or replication of certain parts of the namespace at the cost of storage space).

- how do you prefer the communication with the group's users?
 - Our local users know about special mailing lists which are read by the T2 admins and offer fast help
 - Each experiment's site contact has the right to attach to our secured T2 admin chat. Using this channel an urgent problem can be communicated very fast, and experts can work together.
 - For most generic problems which are not very urgent we prefer people filing GGUS tickets.
- how do you plan to announce un/scheduled downtimes and problems to the associated groups
 - Dedicated mailing list + using a news functionality in our site twiki