



SRM v2.2 Production Deployment

- SRM v2.2 production deployment at CERN now underway.
 - One 'endpoint' per LHC experiment, plus a public one (as for CASTOR2).
 - LHCb endpoint already configured & ready for production;
 - Others well advanced – available shortly
 - Tier1 sites running CASTOR2 at least one month after CERN (experience)
 - SRM v2.2 is being deployed at Tier1 sites running dCache according to agreed plan: steady progress
 - Remaining sites – including those that source dCache through OSG – by end-Feb 2008.
 - DPM is already available for Tier2s (and deployed); STORM also for INFN(+) sites
 - CCRC'08 (described later) is foreseen to run on SRM v2.2 (Feb + May)
Common Computing Readiness Challenge
 - Adaption of experiment frameworks & use of SRM v2.2 features planned
 - Need to agree concrete details of site setup for January testing prior to February's CCRC'08 run
- **Details of transition period and site configuration still require work**

- Final SRM 2.2 functionality being delivered
 - correct prepareToGet behaviour
 - changeSpaceForFiles
 - ...
- Production endpoints deployed for LHCb and (today) ATLAS
 - information required from ALCE and CMS
 - Deadline of November 6th missed, though.
 - some configuration difficulties plus an Oracle problem.



dCache 1.8 (including SRM 2.2) deployment

dCache.ORG

The Tier I production system deployment started Oct 29 with NDFG and is ongoing. dCache is currently installed at 9 Tier I's.

NDGF	Oct 29	OK
GridKa	Nov 6	OK
SARA	Nov 19	
IN2P3	Nov 26	
FermiLab	Nov 29	
RAL	Dec 3	
Triumf	Dec 3	
BNL	Dec 10	
Pic	Dec 17	

dCache.ORG

dCache 1.8 will replace dCache 1.7 in the VDT package presumably mid of February

The about 40 dCache Tier II's (LCG & OSG) may join at any time.



DPM - current developments



- SRM v2.2 interface
 - Defined at FNAL workshop in May 2006
 - Daily tests are run to check stability and compatibility with other implementations: all major issues have now been resolved
- Xrootd plugin
 - Being tested by ALICE
 - Working on performance improvements



Summary

- Key issue now is to understand schedule for experiments' to adapt to SRM v2.2 (understood to be ~end year)
 - **And how they require storage to be setup & configured at sites for January 2008 testing prior to February CCRC'08 run**
- 💣 Must be agreed at / by December CCRC F2F**



SRM v2.2 workshop

- [What do experiments want from your storage?](#)
- [Workshop home](#)



SRM v2.2 workshop blog...

- *The final session of the day was titled "What do experiments want from your storage?". I was hoping that we could get a real idea of how ATLAS, CMS and LHCb would want to use SRM2.2 at the sites, particularly Tier-2s. LHCb appear to have the clearest plan of what they want to do (although they don't want to use Tier-2 disk) as they were presenting exactly the data types and space tokens that they would like set up. CMS presented gave a variety of ideas for how they could use SRM2.2 to help with the data management. While these are not finalised I think they should form the basis for further discussion between all interested parties. For ATLAS, Graeme Stewart gave another good talk about their computing model and data management. Unfortunately, it was clear that ATLAS don't really have a plan for SRM2.2 at Tier-1s or 2s. He talked about ATLAS_TAPE and ATLAS_DISK space tokens, which is a start, but what is the difference between this and just having separate paths (atlas/disk and atlas/tape) in the SRM namespace?...*

ALICE storage type/space tokens

- RAW copy to T1D0 storage (permanent)
- ESD copy to T1D0 and ALICE managed to T0D1
- Depending on the type of replicated RAW - part of the data can/will be removed upon registration
 - ALICE can manage that, if supported by MSS @ T1
- Space tokens description
 - For T1D0 - T1D0 (or RAW)
 - For ESDs - T1D0 and T0D1 (can be anything)
- Example setup at CCIN2P3:
 - /pnfs/in2p3.fr/data/disk (T0D1)
 - /pnfs/in2p3.fr/data/T1D0 (T1D0)