



dCache, status (May 2, 2007)

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for the dCache Team



SRM 2.2 evaluation system deployment

SRM 2.2

General Issues recently reported

Upcoming (non agreed) feature requests



SRM 2.2

Deployment Status

Major Issue : Treating Spaces

Minor Issues



Deployment Status

April (*guided and scheduled deployment*)

- | | |
|----------------------------------|---|
| 1. Week : FERMI | Done |
| 1. Week : DESY | Done |
| 2. Week : Installation at BNL | Done |
| 3. Week : Installation at gridKa | Done |
| 4. Week : Installation at UKED | Done |
| 4. Week : Installation at IN2P3 | Upgraded, but not yet published.
Will be done this week. |

All sites installed or upgraded to dCache 1.8 **without our help**

Most sites are now moving into PPS



SRM issues : Treating spaces

Behavior of reserved space in Custodial-Near-line (T1D0)

Option I (dCache current behavior)

- Reserved space on disk is reduced by the amount of space flushed to the HSM.
- New space has to be reserved for a new bunch of incoming data.

Option II (WLCG understanding of agreement)

- Reserved space on disk stays the same.
- Incoming data is streamed through this reserved space.

dCache will adjust to WLCG option.

(Work in progress, may take until early June)



SRM minor issues

Currently there is no disagreement between dCache team and the WLCG idea of the SRM 2.2 implementation.

Minor remaining issues will be removed very soon.



General Issues recently reported

Return of TURL doesn't automatically re-stage datasets.

Data corruption on gsiFtp put in multi stream mode.

File registered in pnfs but not available in a pool.

Unclear system behavior under load.



General Issues recently reported

Return of TURL doesn't automatically re-stage datasets.

Symptom : SRM 1.1 returns TURL of a Tape only file (T1D0) without initiating a re-stage of that file. The workaround was to us 'dccp -P' to get the file re-staged.

Status : **Fixed** with dCache 1.7.0 – 35 (Apr, 20)

Data corruption on gsiFtp put in multi stream mode.

Symptom : Data corruption for files transferred to dCache by gsiFtp in multi-stream mode. Initially noticed by BNL. No corruption reported after patch was applied.

Status : **Fixed** with dCache 1.7.0 – 32 (Mar, 23)



General Issues recently reported

File registered in pnfs but not available in a pool.

Symptom : SARA and PIC reported that files, which exist in the pnfs file system couldn't be found in one of the pools. It is not clear yet, whether those files are indeed not in the pools, or dCache just forgot about the pool location. A set of missing files correlates to a pnfs downtime due to power outage.

Status : Pending (likely to be ticket <http://trac.dcache.org/trac.cgi/ticket/8>)

Unclear system behavior under load.

Symptom : Unclear report

Status : Pending



General Issues recently reported

dCache.org would strongly recommend to provide one known representative per experiment to work closely together with the dCache team on open issues. That would allow dCache.org to prioritize problems according to the importance, the particular problems have for the experiments. dCache would offer regular or 'on demand' phone conferences with the developers.



Upcoming (non agreed) feature requests

From Flavias Talk

Capability to control access rights consistently across different SE's through VOMS

This is not exactly clear to me.
ACLs will not be available before 2008

Quotas

Will not be available before 2008



Further reading

www.dCache.ORG