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Storageware

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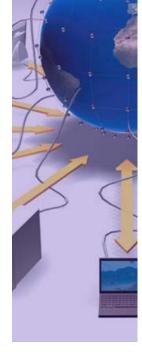
WLCG Collaboration Workshop CERN, 13-14 November 2008







- Detailed status report already available
 - Pre-GDB (dCache, DPM, StoRM) <u>http://indico.cern.ch/conferenceDisplay.py?confld=20247</u>
 - WLCG workshop (CASTOR) <u>http://indico.cern.ch/materialDisplay.py?contribId=13&sess</u> <u>ionId=1&materialId=slides&confId=32660</u>
- Summary of the recommended versions and features available now or in the near future





CASTOR



- The release currently in production is:
 - CASTOR Core: 2.1.7-21
 - CASTOR SRM v2.2: 1.3-28 on SLC3

The recommended release is:

- CASTOR Core: 2.1.7-22 (released this week)
- CASTOR SRM v2.2: 2.7-8 on SLC4

(srmCopy, srmPurgeFromSpace, more robust)

The next version of CASTOR, 2.1.8, is being considered for deployment at CERN for the experiment production instances.





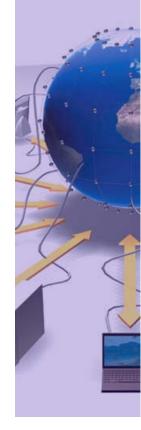


dCache



- Recommended release is 1.9.0
 - It is a low risk upgrade from 1.8.0
 - Sites are recommanded to install Fast PNFS
- 1.9.n (n>=1) contains the actual new features
 - New pool code (November) Copy and Draining Manager
 - PinManager (December, January)
 - gPlazma
 - Tape protection (MoU)
 - srmReleaseFiles based on FQAN (MoU)
 - Space Token protection (MoU)
 - New information providers
 - ACLs (January)
 - NFS v4.1
 - Bug Fixes (gsiDcap, UNAVAILABLE Files, etc.)





GS dCache future development



- Catalogue synchronization
- Better information providers for installed capacity
- Glue 2.0
- Fast Pnfs to Chimera migration tool
- For more info, please refer to the pre-GDB presentation.







DPM

- V.1.6.11-3 is the last stable release on SLC4 (August 2008)
- V. 1.7.0 currently in certification
 - srmCopy
 - Write permission to spaces limited to multiple groups (MoU)
 - srmReleaseFiles based on FQAN (MoU)
 - srmLs can return a list of spaces a given file is in
 - New dpm-listspace command needed for information providers (installed capacity)
 - DPM retains space token when the admin drains a file from a filesystem



GS DPM



- New nameserver APIs to set and retrieve checksum
- SURL cleanup after expiry or abort
- Improved internal logging for space capacity updates
- New DB schema
 - YAIM makes an automatic update



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GS DPM future plans More friendly python interface Enhance xrootd support (authentication)

- Quota system
- Further checksum support
- Monitoring interface
- Tool for consistency check and repair
- Enhance filesystem selection
- NFS v4.1
- Resource limits
- Compliance with gLite logging recommandations





StoRM

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- V 1.3.20-04 currently in production
 - Support for SL4
 - YAIM configuration
 - Filesystem drivers
 - PosixFS Lustre, EXT3, etc.
 - ACL enforcing through setf/getfacl
 - GPFS v3.x
 - XFS
- V1.4 new major release (December 2008)
 - Compliant with MoU short term plan
 - GSOAP 2.7
 - Separation of Synch and Asynch srm call
 - Improved configuration
 - New authorization mechanism for SA
 - GridFTP load balancer
 - Improved support for different filesystems
 - Storage Area size not enforced at filesystem level

