StoRM - Status and plan

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- StoRM v1.3.19
- New features.
- Storage Area definition
- T1D1 support
- StoRM v1.4

StoRM v1.3.19 for CCRC08

- Complete support for Quattor profile.
- Improved YAIM script to manage Storage Area attributes.
- Currently installed at CNAF T1 as follows:
  - storm-fe endpoint for ATLAS/CMS (2 StoRM frontend host, 1 StoRM backend)
  - new endpoint under definition for LHCb (1 frontend, 1 backend)
  - 3 gridftp server for ATLAS and CMS
  - 2 gridftp server for LHCb

StoRM v1.3.19: the new features

Frontend:

- Minor fixes.
- Fix on size returned in case of srmLs in fullDetailedList mode.
- Improved welcome message and ping version.

Backend:

- Improved LOG details at INFO level. Useful for debugging pouposes.
- `srmGetSpaceMetadata` for *Space Token* with updated info on used and free size.
- Improved database cleaning operation.

StoRM v1.3.19: the new features

- Extra slashes to avoid the Globus GridFTP Java Client problem with dCache.
- Experimental support for Storage Class T1D1.
  - Specification of the storage class per Storage Area.
  - T1D1 support in cas of GPFS v3.2 with TSM integrated.
- Dynamically Information Updating.

StoRM v1.3.19 and Storage Area

- Storage Area can be defined by editing the namespace.xml file.
- New Yaim support for Storage Area attributes.
- New Storage Area attribute related with the GPFS configuration (quota,fileset,etc.)
- SrmGetSpaceMetaData now interact with GPFS metadata to get updated information on space.
- The information published can be configured to be updated dynamically with effective space usage.

StoRM v1.3.19 with T1D1 support

- Introduce support for T1D1 storageclass.
- Currenlty strongly coupled with GPFS + TSM solution.
- StoRM manage the migration of data to tape.
- GPFS and TSM configuration script made in collaboration with LHCb (thanks to V.Vagnoni).
- Work with GPFS v3.2
- In this version T1D1 is in alfa release.
- By May (next CCRC'08) the T1D1 support will be in production quality.

Other activities in progress

- Simple StoRM monitoring for CCRC08. Activity made in collaboration with INFN-Grid team.
- StoRM porting on SL4.

The new release: StoRM v1.4

- Frontend:
    - New thread management.
    - GSOAP 2.7
    - Override GSOAP Time-out.
- Backend:
    - New database schema.
    - Internal load balancer for multiple gridftp servers.
    - Backend replication for high availability.
    - srmCopy both in pull and push mode.

StoRM support

- Third level support: storm-support@cnaf.infn.it. StoRM expert on line.
- StoRM@CNAF Tier 1 problem/issues/question: t1-admin@cnaf.infn.it.

Please refer to the StoRM web site for up to date report on StoRM status and plan: **http://storm.forge.cnaf.infn.it**

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