

StoRM status and plan.

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- Current release.
- Open issues.
- Release schedule.

StoRM v1.3.16 [1/2]

StoRM general status:

- Latest stable release: **v1.3.16**
- Available by **YAIM**, **APT - rpm** or **Quattor**.
- File system driver available:
 - GPFS v2.3
 - GPFS v3.x (Improved ACL management using the new GPFS API)
 - XFS
 - PosixFS (ACL management through the Linux **setf/getfacl()**. Tested also on Lustre.)
- Generic SRM v2.2 Command Line Client.

StoRM v1.3.16 [2/2]

- New (and last) update (v1.3.16-2) with many minor fixes will be available soon.
- This updated version is already installed at CNAF_T1.
- LHCb and ATLAS tests at CNAF_T1 shown it works quite well.

StoRM open issues [1/2]

- [1] *srmStatusOfPutRequest* changes status over time. **Fixed in v1.4.**
- [4] *remainingPinTime* is not returned in *srmStatusOfGetRequest*. **Fixed in v1.4.**
- [5] When *srmExtendFileLifeTime* is called without specifying new pin or file lifetimes but specifying a request token, the current pin lifetime for the correspondent TURLs should be returned. StoRM returns no lifetimes. **FileLifetime returned in v1.3.16-2. PinLifetime in v1.4.**

StoRM open issues 2/2.

- [7] *Copy requests to storm_t1 failed with SRM_DUPLICATION_ERROR during the first putDone request. **Missing log in GSSD page. No problem in SrmPutDone found, more information needed.***
- [8] *srmcopy test transfers from StoRM fail some time, due to srmStatusOfCopyRequest responses returning SRM_SUCCESS for request level status and SRM_REQUEST_QUEUED for file level status. **Fixed in v1.3.16-2.***
- [9] *No tools provided for site administrators to reserve space statically allocating the same class of space to multiple tokens mapped to the same path. **Available by editing configuration files.***

StoRM v1.4.1

Development started this summer. What's new in the next release:

- **Regular expression by FQANs for SA access.**
- **Copy in push/pull mode.**
- **New DB schema.** Performance improvement, space accounting, ready for new features.
- **Full scalability FE/BE/MySQL**
- Fixes open issues.

Release date :End of November.

v1.4 and beyond

The v1.4 is designed to be easily improved with new features. The order of improvement depends on the priority.

- Dynamic query tool (GLUE schema v1.3).
- Admin interface.
- Permission SRM methods.
- Mass storage systems support (GPFS with TSM).
- New namespace. Orthogonality between space and path, multivolume.

StoRM deployment plan

StoRM at CNAF Tier 1:

- StoRM v1.3.16 installed in cluster configuration (2 FE/1 BE)
- GPFS of 36 TB.
- Successfully tested by LHCb and ATLAS.

Other Tier-2 interested in StoRM, please refer to Luca Dell'Agnello for details.