

StoRM: SRM-less operation

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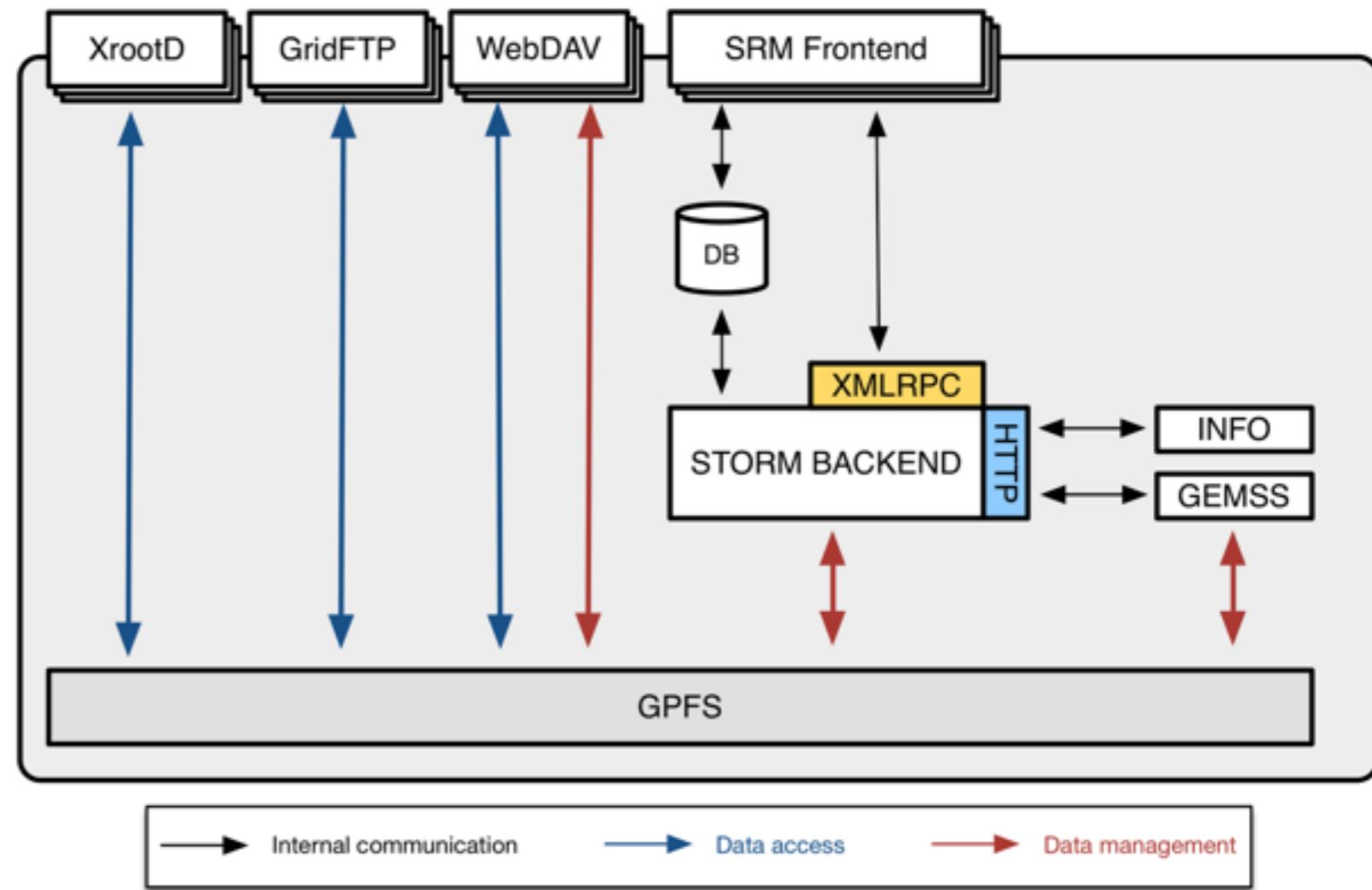
StoRM status

Latest release: StoRM 1.11.11

StoRM powers the Italian Tier1 (> 20PBs of data) and ~ 40 other sites

Approach:

“Lightweight” layer on top of a cluster FS



StoRM SRM-less → StoRM WebDAV service

StoRM solution for sites that want to go SRM-less is the StoRM WebDAV service

- Can be deployed as a standalone service (no dependencies on StoRM SRM frontend/backend services) or together with StoRM SRM services
- Provides management operations and HTTP file transfer
 - but currently no HTTP third-party copy

Will provide space usage reporting via WebDAV quota and size properties ([RFC4331](#))

- Space usage and quota granularity is at the level of the storage-area, same mechanisms currently implemented in the SRM service
- More details on how space usage info is collected in the next slide
- ETA: mid October 2016

Quota support and usage reporting

Approach: leverage the information provided by the underlying file system via the quota command, or with DU if quota not available

On GPFS:

- leverage fileset quotas, one fileset per storage area

On other filesystems:

- leverage filesystem POSIX quota (one filesystem per storage area), or
- space usage collected via periodic DUs
 - up to the site to tune this so that the impact on the fs is bearable