

WP4

Tasks - brief

- 2.1 Interface deployment
- 2.2 Accounting & metadata publishing services
- 2.3 Online storage model
- 2.4 Archival storage model

Tasks – more detail

- Implementation of the interfaces for data access and data ingestion and replication at existing datacentres with a range of underlying existing and emerging storage technologies (ceph, EOS, dCache..,).
- Implement the services necessary to publish data storage and transfer accounting and required metadata publishing.
- Online storage model which can be adjusted for increased HDD capacity, changing relative cost of different storage technologies (e.g. SSD) and their characteristics (asynchronous access) taking into account emerging technology, for site level storage. How changes impact scalability of existing and emerging storage middleware and present a range of viable options for zetascale online storage.
- Model for archival storage based on range of plausible increases in size of tapes, speed of writing and changing technologies etc. This might lead to different strategies for caching ahead of writing to tape as well as significant development to improve data organisation. (1PB tapes are unlikely to deal well with files of 1GB for example.)