

Clients and Interfaces 1

- + POSIX like global namespace
 - + DDM provides a simple one
 - + dq2-get & dq2-ls
 - + Dataset pattern convention -> PATH
 - + Federated XROOTD, NFS4.1, etc. can provide a real one
 - + Convenient for users
 - + Users interact with dataset centric system
 - + Containers, metadata?
 - + Versioning? External service
 - Wrapper Interface for DQ2 to POSIX access
 - + CHIRP / FUSE / Xrootd / NFS 4.1 plugins demonstrator (ref next discussion)
 - + But will it scale? Central Catalogues caching
 - + Overlapping datasets? (duplicate files, hard links, etc.)
 - + DQ2 functionalities not provided in basic Unix commands

Clients and Interfaces 2

- + Meta-data interface
 - + Search by meta data, rather than dataset pattern
 - + Hard to scale with pattern
 - + Proposal 1 dq2-ls --project='data10' --datatype='AOD'
 - + Proposal 2 dq2-ls 'data10*/*/*/AOD'
- + Web interface for dq2 functions
 - + Too many internal details exposed to users (e.g. lcg-cp errors)
 - Web Interface downloader demonstrator (like RAPIDSHARE, MEGAUPLOAD, HOTFILE, FILESERVE, etc)
 - + TORRENTS or list of file http links (needs support from storage)

Client and Interfaces 3

- + HTTP(s) storage interface
 - + Many open source clients with nice features
 - + WGET, CURL, ARIA2 (multisource support)
 - + Cyberduck (AMAZON S₃, WEBDAV, HTTPS, GOOGLE STORAGE (REST), Eucalyptus, Openstack, etc.)
 - + Jdownloader jdownloader
 - + Native support (python, java, etc.)
 - + Less dev. and support
 - + REST based
 - + Middleware changes and features
 - + HTTP redirection
 - Ref. next talk, storage and middleware