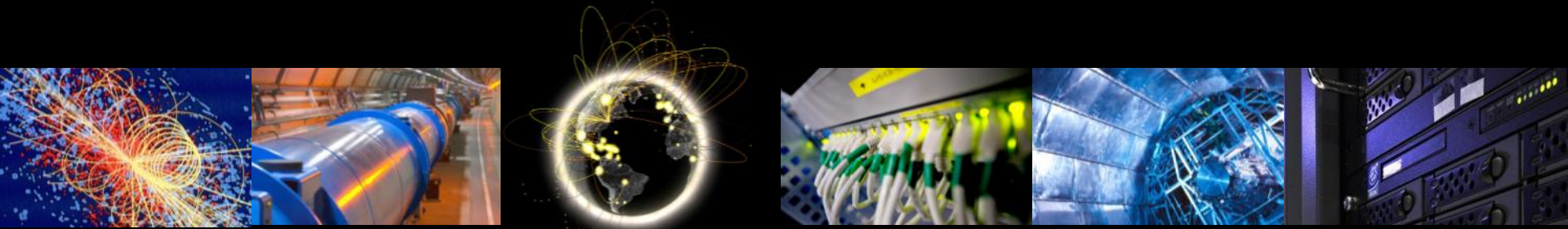


Xrootd and WebDAV deployment

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ATLAS 2012 Jamboree



Xrootd

- From 2013 ATLAS will utilize the xrootd protocol:
 - For WAN data access (r/o)
 - For LAN data access whenever proved to be more performing than the other available protocols (r/o)
 - As protocol for federating storages (r/o)
- In 2013 ATLAS is/will be testing xrootd as
 - Protocol for LAN and WAN data transfer (e.g FTS and dq2-get/put) (rw)
 - Storage Management Protocol (replacing some SRM functionalities) (rw)
- ATLAS demands sites to
 - Deploy the necessary components to allow production quality data access (also from WAN) to the storage through xrootd
 - Be prepared to join ATLAS FAX upon request

HTTP/WebDAV

- From 2013 ATLAS will utilize HTTP/WebDAV
 - For LAN data access whenever proved to be more performing than the other available protocols (r/o)
 - For Storage Management operations for the Rucio migration (rw)
- In 2013 ATLAS is/will be testing HTTP/WebDAV as:
 - Storage Management Protocol (replacing some SRM functionalities) (rw)
 - Protocol for LAN and WAN transfers (e.g. FTS and dq2-get/put) (rw)
- ATLAS demands sites to
 - Deploy the necessary components to allow production quality data access (also from WAN) to the storage through HTTP/WebDAV

Remarks

- Those requests are inline with the outcome of the Storage/Data Management WLCG TEGS
 - The request for support of xrootd is common between ATLAS and CMS
 - The request ...
 - “Deploy the necessary components to allow production quality data access (also from WAN) to the storage through xrootd and HTTP/WebDAV”
- ... should not be a lot of work
- DPM and dCache support them natively
 - StoRM supports WebDAV and can easily support xrootd (at least in r/o mode)
 - The xrootd storage will support HTTP/WebDAV
- Joining FAX requires some more involvement...
 - N2N plugin and Monitoring
- ... but brings benefits (e.g. monitoring)
- A list of ATLAS specific steps is needed (e.g. publication in AGIS) for both HTTP and xrootd.
 - So we ask the intervention of cloud support (i.e. cloud squads)