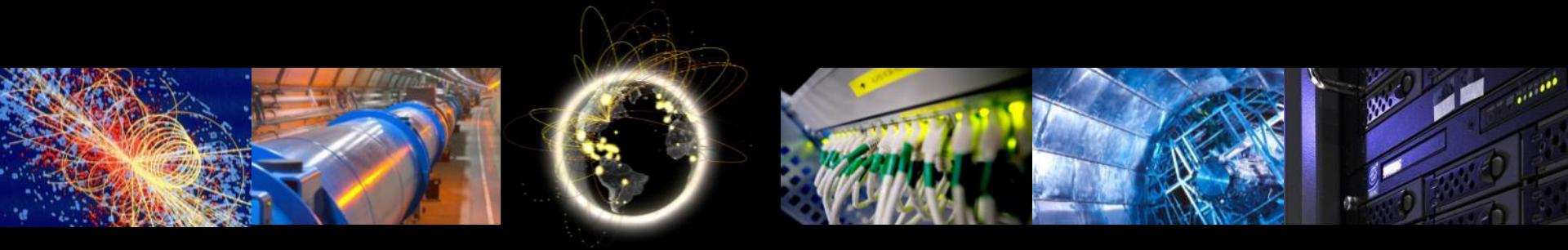# Xrootd and WebDAV deployment

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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)