



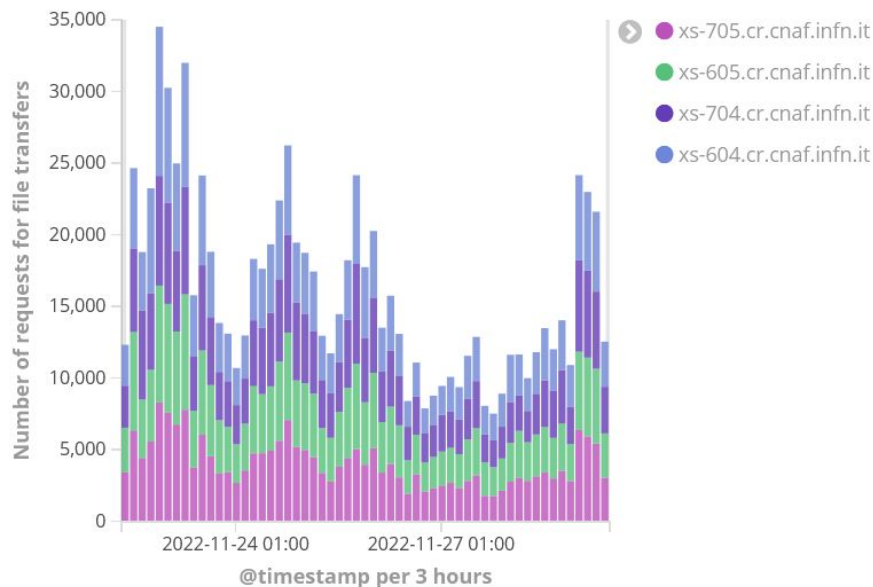
# Data management services: status and news

Lucia Morganti on behalf of storage@CNAF

## Status: services

- Disk space: 8.999160 PB, of which 8.304043 PB used (pledge 2022: 10.44 PB)
- One dedicated StoRM endpoint with 2 frontend endpoints (storm-fe.cr.cnaf.infn.it)
- 4 dedicated StoRM WebDAV endpoints (xfer.cr.cnaf.infn.it)
- Access protocols: srm+https / https
- 3 dedicated gridftp servers
  - Shall we switch them off?
- 2 dedicated XrootD servers
  - One configured also has XrootD proxy to allow data access from jobs in Marconi

Requests of file transfers to WebDAV





## Status: storage areas and VOMS access permissions

- /atlas: not really used, can we remove it so to avoid nested storage areas ([issue StoRM WebDAV](#))?
    - If/when removed we would like to align GPFS fileset accordingly (down needed)
  - /atlas/atlasdatadisk: only Prod role can write
  - /atlas/atlashotdisk: r/w with ATLAS voms proxy (not considered by [Petr](#) but this is ok)
  - /atlas/atlasscratchdisk: r/w with ATLAS voms proxy
  - No /atlas/atlaslocalgroupdisk, contrary to [Petr](#) description but this is ok
- 
- /atlas/atlasdatatape: only Prod role can write
  - /atlas/atlasgrouptape: only Prod role can write
  - /atlas/atlasmtape: only Prod role can write

Filesets in file system 'gpfs\_atlas':

Name	Status	Path
root	Linked	/storage/gpfs_atlas
Atlas_scratch	Linked	/storage/gpfs_atlas/atlas/atlasscratchdisk
Atlas_data	Linked	/storage/gpfs_atlas/atlas
Atlas_test_disk	Linked	/storage/gpfs_atlas/atlas_test/disk
Atlas_hot	Linked	/storage/gpfs_atlas/atlas/atlashotdisk



## News: access with jwt tokens

- Transition [X509 VOMS proxies](#) -> [JWT tokens](#) led by DOMA WLCG AuthZ working group
  - One token-issuer (indigo IAM) per VO: users can be imported from a VOMS server
  - Token support throughout WLCG stack
  - Two models for authorization: based on groups (e.g. /atlas/production) or based on capabilities (e.g. storage.read/atlas)
- Starting point: [requirements](#) for ATLAS storage within WLCG AuthZ working group
  - “Rely exclusively on capabilities that comes with token storage.\* scopes”
  - “Completely ignore wlcg.groups in the token for storage access.”
  - Authorizations are requested using scopes and returned by the token issuer if the client and user are entitled
- Token-based authN/Z is already enabled in the xfer endpoints for the [WLCG IAM instance](#)
- We can enable it for ATLAS IAM instance just adding `wlcgScopeAuthzEnabled=true` to the storage areas