Services and Tools Activity Summary

Storage / dCache support (RT support**)**
- **ATLAS**
  - ATLAS tape restore test
    - 200k restore request reached (previous limit 100k)
    - SPOF identified in dCache
    - Troubleshoot STALE restores (2K) from HPSS identified from two dCache staging pools (endit failures at reboot)
    - Cf. BNL tape challenge report https://indico.cern.ch/event/1153432/
  - Investigation of Xrootd protocol for external client write access along with dCache developers, initially reported via dCache github issue and then being followed on dCache RT ticket www.dcache.org #10308
    - dCache Xrootd redirect transfers for clients to interact with internal pools.
    - Xrootd does not have capability to proxy data through doors (i.e webdav)
    - Alternatives being considered with dCache developers involving active testing and troubleshooting
  - Troubleshoot GGUS-Ticket-ID: #156883. No space on DATADISK pools
  - dCache new POOLs maximum storage reconfigured. Rob H. new recommendation to allocate 90% of the available storage on recent storage commissioned to optimize the performance of ZFS.
    - 50 dCache pools were reconfigured
  - Setup lustre / dcache testbed for ATLAS
    - Total size: 5PB + 5PB
    - Evaluation is undergoing:
      - dCache + disk pools vs. dCache + Lustre vs. XRootD Standalone server + Lustre,
      - Issues with XRootD Standalone server
      - https://support.opensciencegrid.org/support/tickets/public/72989462f4ec25597cf744e0ae17f0e9444b8f99bd87d9334b8d1eaae64a1e93
      - https://support.opensciencegrid.org/support/tickets/public/483ae48b3800e5b4d632da556e527592df53d994391d6b9db0f7ac3c26450314

DUNE dCache
- The remote access protocol davs/https has been fixed
- Troubleshoot WRITE/READ issues for external clients to the dCache instance via XROOTD
  - DUNE pools are not accessible to external clients
  - dCache Xoortd troubleshooting two new issues related with IPV6, reported to dCache github:
    - [Xootd IPV6 transfer fails with (General problem: Unable to find address that faces lxplus730.cern.ch/2001:1458:d00:12:0:0:0:270 [666]) (source)](#)
    - [Run: [ERROR] Invalid redirect URL: (source)](#)
- DUNE doors upgraded to dCache 7.2.15

Next week intervention:
    DUNE consolidation dCache 7.2.15 anticipated downtime less than 4 hours, May 10th

Data management ([RT support](#))
- Rucio sPHENIX:
  - Test job from PanDA server@cern succesfuly registered their output in Rucio@BNL

General Web Services
- US-ATLAS([RT support](#)):
  - 3 weeks until end of contract; working with Data Art on remaining issues related to administration and publishing roles, documentation, feeds
  - SDCC assumes support of US-ATLAS website 6/1; we are addressing all tickets and ramping up page development
  - QA on staging to assist Data Art during the last mile
- SDCC Website:
  - Held user acceptance meeting with SDCC team leaders showing proposed new design for SDCC home page; will incorporate feedback and finalize in coming weeks
  - Content migration to new Services content type continues; will coordinate transition to production once complete