



# Scientific Storage Operations

CSAID Ops  
July 23, 2024

# Disk Storage Updates

- **Shared (Public)**
  - INC000001177108: all transfers of ProtoDUNE data into FNAL dCache were failing for over 9 hours due to migration of the end-to-end circuits to the new border routers by Network Services
- **CMS**
  - CMS XRootD site redirectors have been running fine most of the time after the timeout parameters were tuned to close idling/unclosed connections
- **Ceph**
  - Migration off old (2018) HDD servers complete

# Tape Storage Updates

- 1000 LTO9 CMS tapes loaded into Spectra library TFF1, 900 LTO9 Public tapes loaded into Spectra library TFF2.
- Two failed drives in TFF2, replaced from spares.
- TFF2 library performance problems required a reset and SD card replacement, brief downtime for this work.

# Tape Storage Updates – Enstore Alma 8

- Qpid C++ (used by SFA): there is no version for Alma8 and trying the SL7 on EL8 does not work. Trying a straight compile. Or possible a docker container with this for SL7.
- Trying the Spectra movers that do not have ATTO HBAs
- Progress with driver issues; Pat identified a kernel change that modified the power state handling of tape drives that appears to be the source of our problems (present in mainline and RH kernels, but not in current LTS versions)

# CTA – Pre-production

- Had discussion on logging, monitoring and alerting
  - Refining a plan on logging
  - Plan to use CheckMK for alerting (working on installing and setting up alerting)
  - OKD will be used for monitoring
- Kernel issues on Alma 9 same as on previous slide