



CERN  
Tape Archive

# CTA Day at the 6<sup>th</sup> EOS Workshop

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Tape Archives and Backups Section

# Overview of the CTA Project

- **The CTA project, team and community.** Introduction to the CTA project, the people working on it and the wider CTA community.

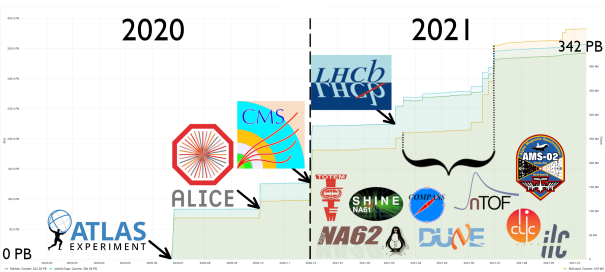
—*Oliver Keeble*

- All CERN experiments now use CTA
- Run-3 infrastructure: 5 libraries, 200 tape drives
- CTA is active in WLCG and DOMA
- CTA community:  
“CERN is committed to leading and supporting a CTA community if this is desired (if sites wish to adopt it)”

# Overview of the CTA Project

- **CTA Status and Roadmap.** Status report on the CTA software and the planned direction of software development efforts for 2022 and 2023.

—*Michael Davis*



- Final preparations for LHC Run-3: Data Challenges, Beam Commissioning, Software Improvements
- CTA “Public” Release
- Software Development Roadmap
- Operational Tools and Community Features

# Site Reports

- **AARNet**. In production since 2021. Restic backup service being made tape-aware. —*Denis Lujanski*
- **IHEP**. Migration from a customised version of CASTOR v1.7 to EOSCTA. Archiving to CTA; migration from CASTOR by copying (2022-23). —*Yujiang Bi*
- **RAL**. Migration of T1 tape from CASTOR to EOSCTA (Antares). CTA configuration, migration process, testing to ensure readiness for upcoming data challenges/LHC Run-3. —*George Patargias*

# Technical Presentations

- How to enable EOS for tape. —*Julien Leduc*
- Configuring user access control in CTA. —*Volodymyr Yurchenko*
- Tape Drive Status Lifecycle. —*Jorge Camarero Vera*
- EOSCTA file restoring. —*Miguel Barros*
- Maintaining consistency in an EOSCTA system. —*Richard Bachmann*
- An HTTP Rest API as SRM replacement for tape access. —*Cédric Caffy*

# Evaluation of CTA Use Cases

- Evaluation of CTA for use at Fermilab. Fermilab's evaluation of CTA as a replacement for Enstore.  
—*Ren Bauer*
- dCache integration with CTA. DESY's evaluation of CTA as a tape back-end for dCache.  
—*Tigran Mkrtchyan*

# BoF on CTA Support for Non-native Tape Formats

- Fermilab and DESY use cases require that CTA will offer read (but not write) support for their existing tape formats (based on CPIO).
- DESY have proposed changes to the CTA "retrieve" protocol and tape server to allow reading tapes which are not in the native CTA/CASTOR format.

# Conclusion

- A full and varied programme with lively discussions.
- Over 100 participants.
- Encouraging to see the growth of a dynamic community around CTA.
- Thanks to the EOS Workshop organisers for hosting us!
- [CTA Website](#) : Source Code, Documentation, Presentations and Publications
- [CTA Community \(Discourse\)](#)





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