

# Migration Prerequisites

Agree user/experiment namespace split-up with ATLAS (Cedric Serfon)

<b>atlas</b> fileclass	Migrate to EOSCTAATLAS
<b>atlas_test</b> fileclass	Migrate to EOSCTAATLAS
<b>atlas_user</b> fileclass	Many “users” correspond to experiment functions. Migrate to EOSCTAATLAS
<b>atlas_user</b> files under /castor/cern.ch/atlas/atlascerngroupdisk	Files are in EOS. Drop tape copy.
<b>public_user</b> fileclass	Contains 45 experiment files under /castor/cern.ch/atlas/... Don't migrate but inform the user.

# Migration Prerequisites

## ORACLE Database Migration Tools and Procedures

- Added missing columns which exist in CASTOR schema but not in CTA schema
- PL/SQL procedures
  - **importFromCASTOR**: migrates a tapepool into two intermediate tables (one for disk metadata, one for tape metadata)
  - **populateCTAFromCASTOR**: consumes tape metadata table
  - **completeImportFromCASTOR**: cleans up everything for this round
- Test export on **r\_alice\_user** pool (8 tapes, 723'298 files) took 67 minutes (180 Hz).

# Migration Prerequisites

## EOS and XRootD

- EOS dev branch v4.5.0 released 20 June 2019
  - gRPC interface (for migration tools)
  - New checksum protobuf format (for CTA schema changes)
  - Prepare request tracking
- XRootD 4.10 RC4 released 19 June 2019
  - Prepare request ID tracking
  - Prepare cancel flag
  - Prepare evict flag

# Milestones

End of this week	EOS v4.5.0 compiled with XRootD v4.10.0-RC4 into CTA CI
Next week	Merge CTA schema changes for new checksums
Mid-July	CASTOR database will be moved to new hardware (migration prerequisite). Propose to move CTA ATLAS DB during the same maintenance window.
22-26 July	Giuseppe and Michael both available this week. Full-scale metadata migration test.
August	Full migration test on production hardware with real tapes.

# Task Dependencies

