2022 Tape Challenge Update

Alessandra Forti (University of Manchester), Luca Mascetti (CERN), Maria Arsuaga Rios (CERN), Xin Zhao (BNL)

GDB, February 9th, 2022
To build on the momentum of the 2021 tape challenge

- As with the 2021 tape challenge, the goal of 2022 tape challenge is to validate Run3 tape scenarios for all LHC experiments
  - The same target rates for tape read and tape write (unless indicated otherwise by experiments)
  - The same central dashboard
  - The same communication channels
    - Weekly tape challenge meetings resumed
    - egroup: doma-data-challenges-development@cern.ch
    - Slack: tapetest.slack.com
    - Google doc: https://docs.google.com/document/d/1jb9PrenXEjo2b7e0q_6wLVyOOCezeW48yyJlf1cRJovw/edit?usp=sharing
    - WLCG ops will open GGUS tickets with each tape site, as a communication channel between experiments and sites
  - Again, both DT (data-taking) and A-DT (after data-taking) modes will be covered
What will be different this time?

- Approaching the start time of Run3, we are trying to be as real as possible this time.
- A full chain exercise – combined with CERN Tier0 commissioning
  - Data coming out of DAQ, go through Tier0 EOS, CTA, then to Tier1s.
- More tape scenarios to cover
  - LHCb will also do tape read test this time.
  - ATLAS will try a more realistic data distribution model among T1s for T0 data export.
- SRM+https as the primary protocol for tape access.
- T0 and T1s getting ready for Run3, recent updates on hardware and software.
The dates and the plan

● Target dates
  ○ We are converging with experiments ...
    ■ ALICE may not be able to participate this time due to time conflict
  ○ (Tentatively) target dates
    ■ A two weeks exercise, one DT week, one A-DT week
    ■ DT week will be the 3rd week of March (starting from March 14th)
    ■ A-DT week will be either the 2nd week of March (CMS) or the 4th week of March (ATLAS/LHCb)

● The plan
  ○ ... under development ...