Data Challenge 2024 Input from CMS

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WLCG DOMA General Meeting

Overview

- CMS will participate in the data challenges for 2024

- In coordination with other experiments

- Possible dates: 2-3 weeks of Spring of 2024 (before the possible the restart of LHC beam operations)

- Goal: achieve target rate (~25% of the HL-LHC rate)

Planning Strategy

- Useful knowledge from last year's data [challenge](#) (March 2022)
- DC2022 : tested the chain P5-T0->CTA and T0->T1_Tape using the replay mechanism

This time:

- Test the network and disk usage
- We plan to use the same tools (rucio and fts)
- Monitoring: fts monitoring, specific DC monitoring
- token-based authentication and authorisation for disk endpoints
- T1 sites to participate (PIC,KIT, IN2P3, RAL, Fermilab, CNAF) - need feedback
- Some T2 will also participate - need feedback

Plan to make **small scale tests** (possibly on our own) to be prepared for the DC2024

- Test the machinery in a mock challenge environment
- Address issues on the fly

Contact persons: Data Management team L2s and L3s: Dima, Lisa, Benedikt and Hasan