

Input from CMS

Benedikt Maier, on behalf of CMS Offline Software & Computing - DOMA General Meeting - September 28, 2022



Q&A: Dates

The 30% DC was scheduled for 2023. However 2023 will be a busy data taking year with a HI run at the end (which usually is a data challenge on its own). Many parties have already expressed preference for a DC in 2024 towards the end of EYETS. Would you agree to that?

Yes.

Can you give already a more precise date that would fit, e.g. a time window of a month?

Since the 2023 run schedule (and even the rest of 2022) is still quite uncertain, it is hard to give a precise answer. However, some constraints:

- **Not the last few weeks of the YETS, since commissioning activities take priority**
- **Not too early in the calendar year, since if there is a (long?) HI run at the end of 2023, data processing and transfers may still be happening.**

Q&A: Technologies to be Exercised

Authentication with tokens: For disk endpoints almost for sure, tape endpoints likely, but need clarification. Any experiment opinions?

The WebDAV migration for tape (SRM+https) and disk endpoints is complete in CMS. We hope that a migration to IAM could be complete by 2024.

Software-defined networks: Tools like SENSE and NOTED are progressing and at least parts of the traffic could/should use links involving these SDN based technology. Are there experiment specific plans regarding usage of SDNs?

Opportunity to run the SENSE & Rucio prototype at a couple of sites on a production scale.

Monitoring: Several suggestions for improvement were made after the last DC and some are already implemented or on its way. The next DC should verify these improvements. Are there specific developments that should be included here?

Monitoring based on packet marking (IPv6 flow label) would be very interesting, if implementable on that timescale.

Q&A: Recommendations

The wrap up (<https://zenodo.org/record/5767913>) from the last DC makes several recommendations. Are there further suggestions or proposals how to realise them?

7.1 Further Tests:

We would recommend involving the Fermilab, PIC & RAL (and any other interested) Tier-1 admins as early in the planning process as possible.

7.2 Data Challenge Setup:

Preparations (within CMS at least) should start well before the challenges: build up a robust infrastructure for the challenges and a series of dry-runs / ramp up exercises. This would minimize setup failures during the tests themselves.