

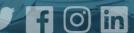




DUNE Database Workshop Actions

Paul Laycock, Norm Buchanan

July 20, 2021





The Workshop

- A dense but very useful workshop:
 - https://indico.fnal.gov/event/49543/
- Live notes taken during the workshop:
 - https://docs.google.com/document/d/1QbzSCdPWFuphgI5dDGyuNuq4SAXCOmmop2UtkeZot6o/edit?usp=sharing
- Thanks to all of the speakers !!!
- Two days, two sets of actions
 - Broadly: "Construction and online" and "Offline"
- Prioritised these into what needs to happen now (July!) and the rest



Highest priority - PBS DB and management

- Define the scope and role of the "Physicist in charge" of the Parts identifier, required effort, relations to Database group and liaisons
- 2. Define the use cases, workflows, interfaces / APIs for the Parts identifier database and find a developer
- 3. Propose solutions to (1) and (2) and push for sign-off with stakeholders as soon as possible

Progress - Proposal being discussed at BNL, hope to converge quickly!



Highest priority for offline - APIs for retrieving all metadata

1. Create the list of metadata categories based on David's talk and follow up in a Database group meeting with Igor and David

In progress from Norm (see next talk)



Construction actions

- Define the HWDB SLA / requirements from the consortia
- Define the HWDB PDB interface and APIs
- Decide whether ProtoDUNE-HD-II needs its own project

All of these need the "Physicist in charge"



DAQ and Slow Controls actions

- Resurrect DAQ access tools (Norm)
- Confirm MongoDB backend for DAQ group (Done!)

- Follow up with Terry Shaw on SC requirements (Norm)
- Present TimescaleDB studies in a Database group meeting when ready (Paul)
- Reach out to the DQM team (Paul)



Offline actions

- Identify simulation expert and invite to Database group meetings to tell us about simulation needs (Paul)
- Define studies of Run 1 data to guide granularity needs for offline processing, particularly SC (Norm/Paul and new hires)
- Run-based and/or time-based IOVs, what do we need? (DB group)
- Interface to metadata, i.e. Metacat/SAM (Norm)
- Identify (plain) metadata sources could json be a solution? (Paul)
- Interfaces between HWDB and Conditions DB (Paul)
- Understand the HPC use case (Norm)
- Update the Database schematic with accurate and complete information! (Norm/Paul)



Summary

• In summary, we have work to do!

