Event Model: Metadata, Schema (Wed PM)

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TOC

Definition of Scope/Common Terms

Metadata: Information that describes the contents of a file and how it was created

Data Tiers: Various stages which the data goes through in the course of processing [raw data, hit-reconstructed, track-reconstructed]

Data Streams: Different types of data { test, cosmic, beam, trigger primitives, Ar39 …]

Problems to solve

1. Defining the requirements that DUNE needs for the metadata service
2. Identifying outline for a project to make the metadata service.
3. Identify potential set of data streams and data tiers as well as locations from which they will come
4. Identify what we need from DAQ on the metadata.

Interfaces

Data streams: Potential places data is coming from
- Main DAQ
- Calibration and Slow controls
- Background
- ProtoDUNE
- APA test stands
- High Voltage / Ground planes

Metadata:
- DAQ--may need hooks to tag/create
- Implications on database

Data tiers

Deliverables

1. Documentation of interfaces/requirements
2. White paper describing decisions made at the workshop
3. R&D projects
    a. New Metadata server
    b. Rucio R+D (esp. Data retention stuff and QoS)
    c. Event/subevent server
    d. Data fetching service
4. Decisions made that impact computing model
    a. How to design data movement services if we have by-cell data storage
5. Draft to have something for computing model development and requests for effort.