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Data Acquisition

Work Flow

When a data taking run is over (typically 8 hours):

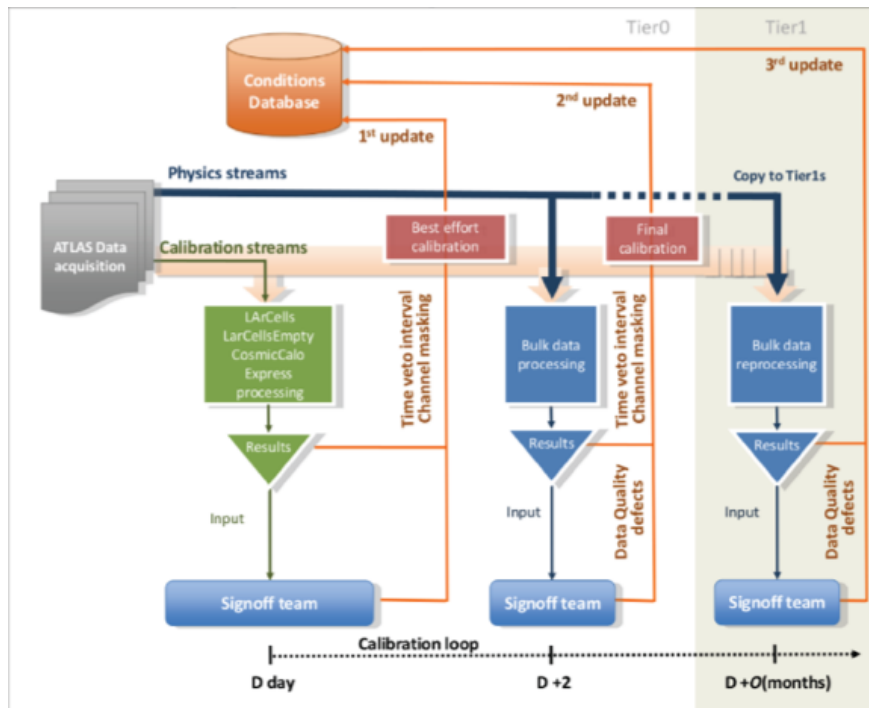
Bulk rec uses majority of tier0 resources.

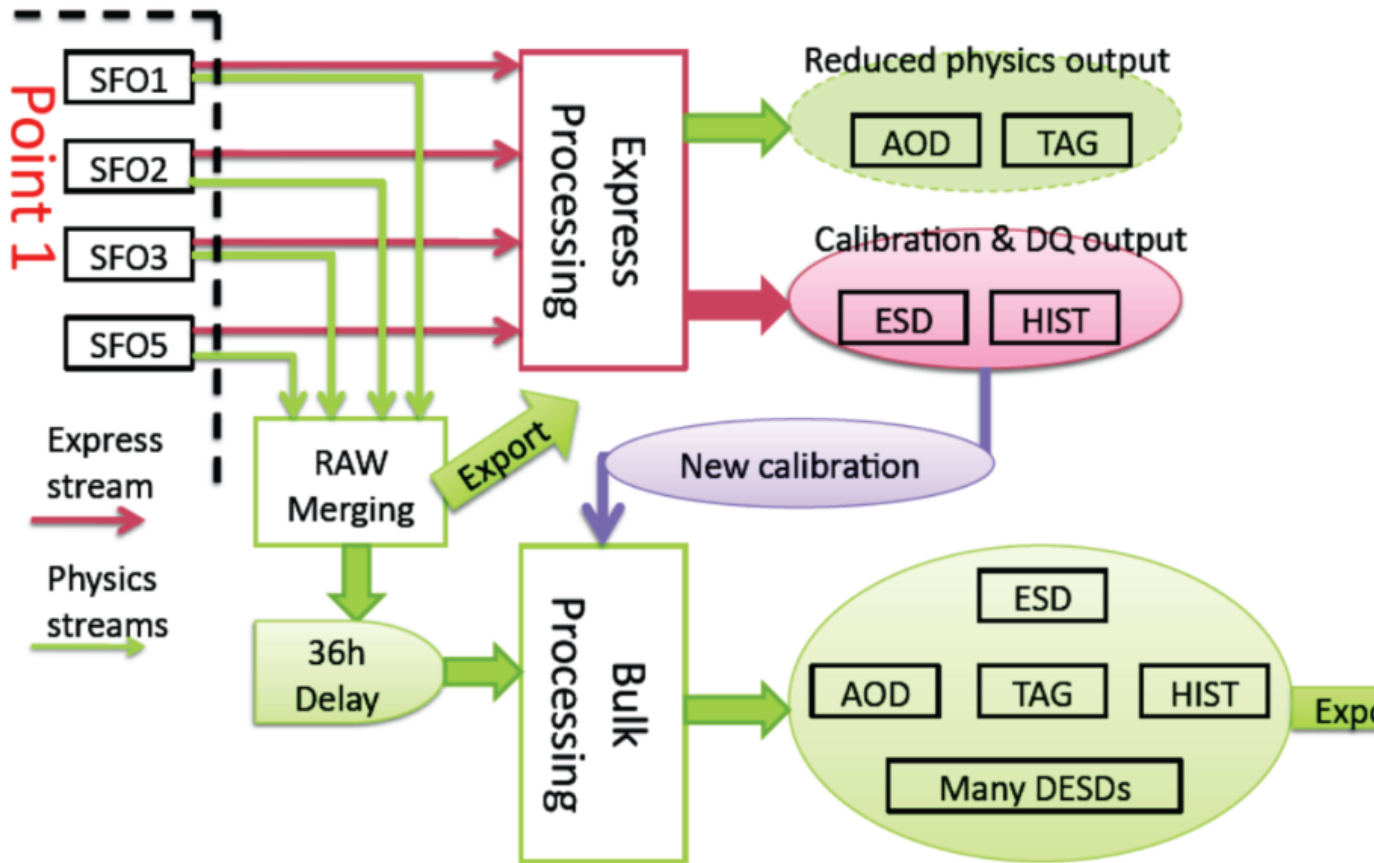
- AOD: Analysis Object Data, physics output like electrons, muons, tracks, etc.
- HIST: Histograms for monitoring.
- ESD: Event Summary Data, contained detailed reconstruction output like calorimeter cells and tracking hits (not produced for physics_main)
- DRAW/DESD: for selected events.

Calibration Loop over express stream:

- Histograms to monitor.
- Alignment work of inner tracker can be done.
- The beamspot is determined (with new alignment).

Calibration loop (48hrs)





Defects and GRL: take Muon DQ as an example: MyMuonDQTutorial. Good quality of data, 'quality' measured by subdetector performance.

Practical info

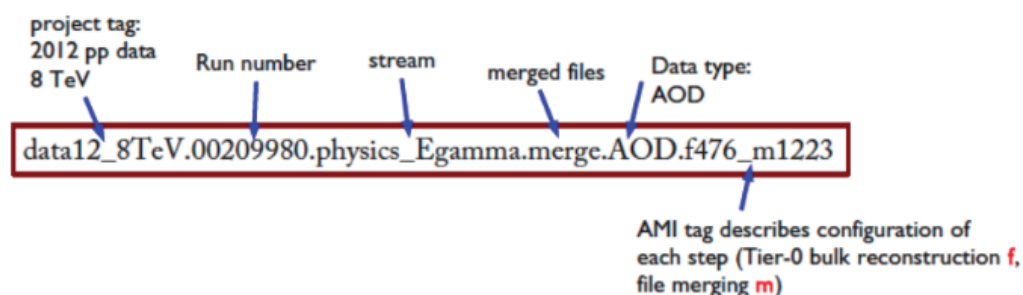
Data Streams

Different data stream, coming from different trigger chain, for different purpose

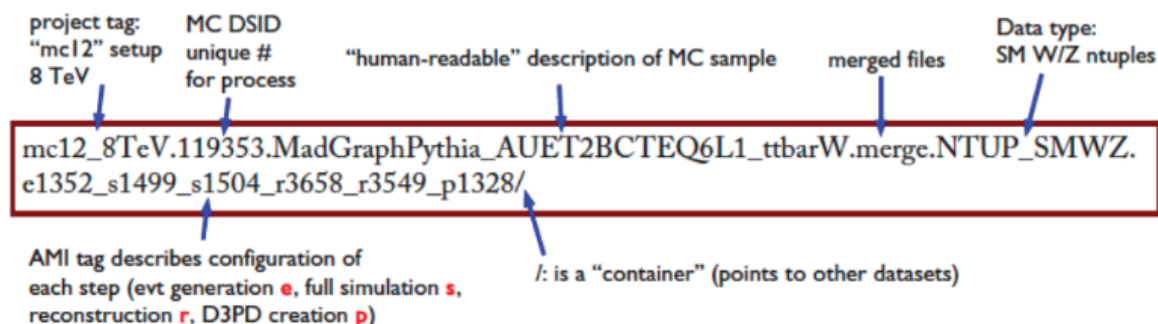
- Express stream
- Physics_main
- B physics stream
- Zero Bias
- Min-Bias , etc..

Dataset Nomenclature [↗](#):

Data:



Simulation:



Useful links

- TDAQ Acronyms [↗](#): What's ROB, ROD, ROL?
- Raw Data Format [↗](#)

-- RongkunWang - 2019-05-03

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