HGTD Production Database August 27th 2024

Same input format of the metadata.yaml

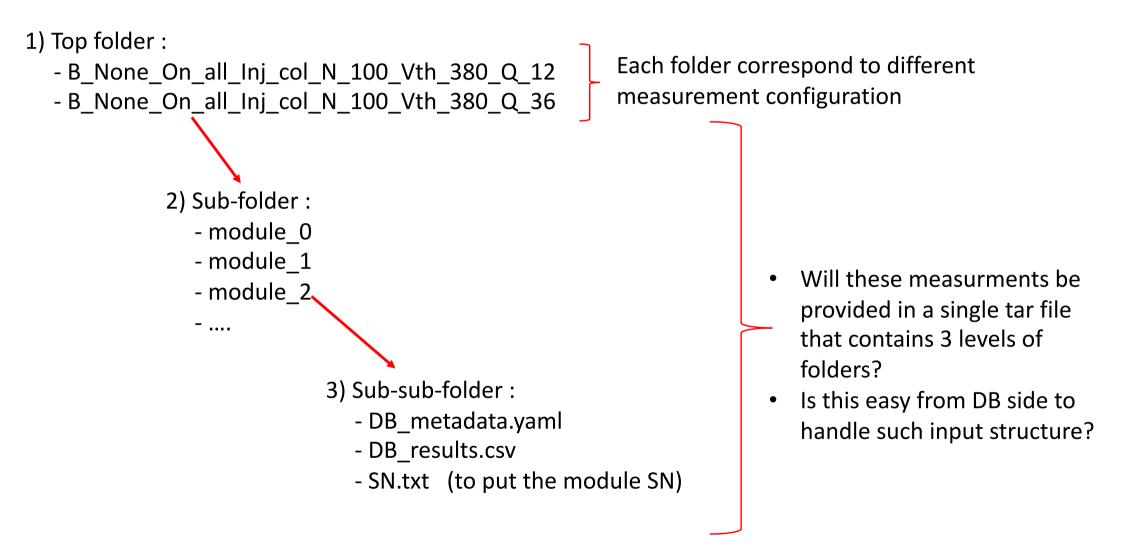
- Followed up on module measurements that Luca provided :
 - CERNbox : <u>https://cernbox.cern.ch/s/ddnPMsuC4WOpkxZ</u>

- Measurements:
 - thresScan
 - vthcScan
 - chargeScan
 - bump_connection
 - Metadata is different from others since the folder is built by comparing two mwasurements (from two thresScan)
 - last_vthc
 → do not need to store in DB

asic_0:

dacVth: 380 extDiscri: false mask: [] smallCtest: false vthcFile: null asic_1: dacVth: 380 extDiscri: false mask: [] smallCtest: false vthcFile: null common: dacCharae: 36 measType: thresScan scanBy: col scanRegionOn: auto scanRegionVthcToZero: auto tag: FFR-FR-051Y_post120_12Ago2024 meta: analysis_timestamp: 12/08/2024 15:55:00

- These measurements have similar folder/subfolder structure:
 - thresScan
 - vthcScan
 - chargeScan



- Instead shall we have just one folder structure :
 - MeasurementConfiguration_ModuleSerialNumber_metadata.yaml
 - MeasurementConfiguration_ModuleSerialNumber_results.csv

B_None_On_all_Inj_col_N_100_Vth_380_Q_12_SN20WMO101000001_metadata.yaml



DB_metadata.yaml



 How to fill the list of pixels that are masked in the database for this measurement ?

- Input structure in DB_results.csv
- For thresScan , vthcScan:
 - asic, pixel, threshold

asic,pixel,threshold 0,0,557.0 0,1,466.0 0,2,464.0

- For bump_connection:
 - asic, pixel, threshold, connected

asic,pixel,threshold,connected 0,0,102.0,False 0,1,66.0,True 0,2,65.0,True 0,3,62.0,True

- For chargeScan:
 - asic, pixel, threshold, A, mu, sigma, counts, toa_mean,
 - There are many more columns of measurements. They need to discuss which columns of measurements need to be recorded in the DB