



Online Database Status

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- Overview
- Summary of recent work
- To do list



Overview: online databases

- OKS

- Configuration of the TDAQ and online system
 - Description of partition, segments, SW, applications, HW
 - Hardware includes crates, modules and cables connecting them
 - Presently also includes "static" module settings, run types, test vector specifications (so called "DataGenRecipes")
 - Also has old style calibration data and trigger menu

- COOL/CORAL

- New trigger configuration DB (CORAL)
- Calibration data (in progress)
- Definition of run actions
 - May replace OKS run types?
 - Would also need specification of test vectors
- Should also have configuration choices for modules



Calibration data in COOL

- Defined folders for all the validated calibration results to be used by the run controllers
 - One folder per type of module or submodule
 - Bit coded channel ID for easy selection of just one crate
- Defined some folders for the results of individual calibration procedures
 - These need to be validated and copied to the “validated settings” folders before they can be used
- Common actions encapsulated in coolL1Calo package
 - This also has the definitions of all the folder types
- Still need code to merge PPM calibration and configuration data into PPMCal structure



Run Actions in COOL

- Defined folders for "run actions"
 - Not quite the same as OKS run types
- One folder per type of run
 - Different COOL "channels" for variants
 - Eg DAC scan with different starting values or number of steps
 - No easy tool to edit these yet...



To Do List (1)

- OKS database installation at point 1
 - Need to install our database in standard place at point 1
 - This will then not be updated via traditional installation of our dbFiles package, but will be edited in place
 - Archiving (and potential retrieval) via oks2coral and oks2cool tools (as tested by Torbjörn)
- OKS database organisation
 - TDAQ proposal is to have one Segment per TTC partition
 - At present, with old style run controllers, we have one per crate
 - This should include the ROSes for that partition
 - Not sure about organisation of eg monitoring applications
 - May end up with about three or four segments:
 - Top level, all crates and ROSes, simulation (and monitoring?)



To Do List (2)

- OKS database generation
 - TDAQ have PartitionMaker tool for generating OKS DBs
 - We also generate RCD databases from OKS "crates" file
 - Could we generate our OKS HW database files from another source
 - Eg very simple description files (bit mask of PPMs in crate?)
 - Or TC database (as will be done at least for some things)



To Do List (3)

- **COOL work**
 - Results folders for all calibrations (CPM, JEM, CMM)
 - Run actions for all types of run
 - Module configuration settings in COOL
 - Tools to edit/display all the above