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Test Beam Planning - Update

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Outline Planning Dates (no change)

• DAQ integration part I (at RAL)	5-9 July
• Pack, Ship to CERN	21-23 July
• Unpack, Install at CERN	28-30 July
• Daq Integration Part II (Beam line)	2-6 Aug
• Test runs with detectors (no details yet)	11-30 Aug
• Beam running	1-30 Sept
25 ns run	End Sept
• Calibration Tests with detectors (no beam)	1-7 Oct

Developments

- **1. Heidelberg plan to collect some calo data before/during the first 25 ns period.**
  - Single crate with CPU & 1 PPM.
  - It is important that this does not delay the main slice integration.
- **2. DAQ team have announced that the 2 weeks starting 11 Aug have DAQ as main testbeam user.**
  - Not clear what impact this has on us, as probably no CTP then
    - ***But means we don't have calibration access to calorimeters?***
- **3. Testbeam visit**
  - Need to clarify location of receivers – upstairs or downstairs.
  - 6 instrumented tilecal drawers (3 ! towers). Need to check LAR instrumentation status.

Developments (2)

- **Integration week 1 may be by phone!!**
  - There is an integration checklist.
- **Lots of clarification of computing insfrastructure in test beam:**
  - Up to 4 partitions, 14 ROS PCs.
  - Fast ethernet in local control room, Raid server running RH9 serving RH 7.3.3 systems.
  - Firewall with gateway machine.
  - AFS read-only, and only while not running. Cache update problems behind firewall.
  - One account/detector, backed-up.

Worries

- **Timescale**
  - (a) uncertainty due to machine schedule
  - (b) our ability to arrive in time.
- **Online – use of RodCrateDaq (x%) and L1CaloDaq (y%).**
- **Calibration Database.**
  - Online write only, so restricted to parameters needed by offline (?)
  - How to insert cable configuration + L1Calo parameters.
  - Need a parameter list + way of measuring values.
- **Analysis and offline (for test beam).**
  - Just starting.
  - Including access to Calo information event-by-event.

Simplifications

- **Which RoIs to provide?**
  - Suggest no CMM RoIs, so only CP and JEP, 2 modules each (?)
    - ***So 1 RoI ROD.***

- **Can we use just one 9U processor + 1 9U PPM crate?**
  - Does 1 PPM have enough channels?
  - No point taking unconnected processor modules, so maximum of 2 CPMs, 2 JEMs, 2 CMMs + RODs (2 or 3).

Planning

- List of people available (started) -> accomodation requests
- List of required equipment + transport details.
- Decision on 6U ROD formats, header v 2.4. When to do this?
- List of irreducible minimum of new software.