

L1T DQM

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Central DQM Questions: Online DQM



- ***This year we have lost some amount of data due to different detector/trigger issues. Was there any such issue in your system?***

Yes.

- ***Was the problem easily visible in shift histograms?***

In some situations yes, but not all, some tools need fixing.

- ***Was the action of the shift crew prompt enough to inform ?***

Sometimes yes, specially if the issue causes a run stop. Working to making problems more obvious and easy to spot.

- ***Any update/improvement was made after such incident?***

Current tools are being fixed, new tools will be deployed soon.

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- **Do you have histogram(s) in the error folder for the audio alarm. If not, do you plan to put histograms for the audio alarm?**

Not yet, in the process of being implemented.

- **How do you detect errors if it starts happening during a run (not at the start up)?**

We have some tests done every LS and some every block of LS.

- **We need to take special care for such cases as shift crew might take longer time to react. Do you think audio alarm can be useful here?**

Yes, this is the process of being implemented.

Central DQM Questions: Online & Offline DQM



- **When did you make last update in the short term and histogram instructions?**

Instructions under review right now specially for the L1T offline shift instructions. Not review

- **Do you check DQM Elog regularly?**

Will be doing this in the future, normally we check the Trigger, Shift leader, DAQ etc.

- **There are useful observations made by DQM shift crews. Please check and accordingly update/clarify the documentation**

OK, but there is an e-group where this issues should be forward to where all with all the relevant people will get it:

`cms-dqm-l1t@cern.ch`

Central DQM Questions: Online & Offline DQM



- Do you have, or planning to have a pile-up monitoring? If so where, in online, express or offline DQM?

No.

- How are you getting the luminosity information? Do you know, there is a PPD group recommended way of getting luminosity information and in April, Suchandra/Zhen had implemented "skeleton DQM" for this?

Currently getting this information from SCAL (HF Lumi). Will look into this.