

L1T Certification Review

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Questions

- 1) What is the status of offline DQM for L1T and the automatic data certification? Is the automatic certification for single run used?
 - Are the plans to improve it (the report summary map is 0.0%)?
 - The same question is valid for the certification of lumi sections (we see that some information is existing, please see snapshot attached).

Monitoring presently used for certification is online only.

- Ongoing effort to migrate online tools to offline world. Make automatic certification with extra statistics.
- Some tools were easily implemented online but have big technical difficulties on offline world (ex. Rates monitoring and Synchronization).
- Tools already present online and being ported have (single) Is certification capability.

Questions II

- **2) Do you use any tools for the offline data certification in addition to DQM information?**

Several sources are used for data certification on the L1T:

- Online DQM
- WbM
- Elog
- Specialized sub-sbusystem monitoring (rates from trigger supervisor, etc)

Questions III

- **3) What is the current list of data certification experts in your group?**

J. Pela, C. Battilana, A. Heister, F. Nguyen, P. Vischia

- **Do they have expertise with RR?**

Some, but not extensive.

- **Do you use the local workspace in RR for your detector/POG?**

We did to some extent on 2011, but not in 2012/2013.

- **If so, is all information there up-to-date and could be used in Synchronization with the global workspace?**

No

- **If not, when do you foresee this transition?**

Other priorities for now, possible use in 2015 data taking.

- **Would a group tutorial be helpful to review the functionality of RR?**

Yes

- **Do you need example scripts to better access information from RR?**

Yes

Questions IV

- **4) What are the main reasons for flagging runs as bad (or partially bad)?**

In general the trigger was not the responsible for large amounts of bad data, but some issues:

- Hardware problems
- Rate problems
- Efficiency problems
- BPTX issues
- **If not done yet, could you please provide a list of "causes" in reply to the relevant hypernews message**
 - Will be sent asap

Conclusion

- Certification procedures will be reviewed after updates to L1T Offline DQM are finalized
 - Porting of tools from the online realm is underway.
 - New tools under development
 - Help with the interactions with RR is welcomed