TkDQMDoctor

Certification Helper

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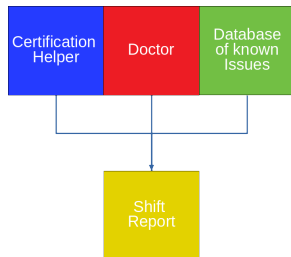`filip.ilic@cern.ch`

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Motivation

Management system to create shift reports, and keep track of known issues.

- ▶ Problems that have been solved might be forgotten after a while and need to be solved again.
- ▶ Solution: Create a centralized system that keeps track of issues and their solutions. Ultimately a system that can give guidance to shifters while taking known issues into consideration is envisioned.
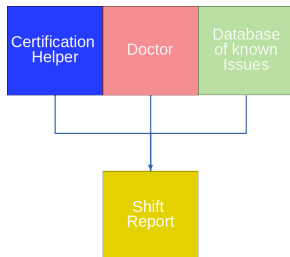- ▶ Similar system successfully used: DAQDoctor

TkDQMDoctor - Overview

- Certification Helper
  - Input forms during run certification.
- Doctor
  - Interfaces with the Certification Helper and Database of known Issues.
- Database of known Issues

Certification Helper

- Overall Goal: Help shifters create good reports
- Checklist pages for each quality flag
- Guiding to the corresponding Twiki pages
- Produce **automated** shift report

Current state

List of Runs

Current web interface.

- List of runs that were added in this session.
- All the usual stuff possible: sorting, editing, deleting
- Generating shift report from the runs in this session

Certifying a run

Adding a new run works through this form

- Mostly dropdown menus (reducing errors)
- Next to each field a link to a checklist page, detailing the procedure for checking that quality flag. (guiding)

Add Run

Certifying a run - Error Messages

Correctness checks: Pixel/Strip/Tracking are set to 'Bad' while there is no comment giving additional information.

Adding a run type

Adding a new run type works
again through a dialog

- Mostly dropdown menus

Adding a reference run

- ▶ Can not be done by shifters.
- ▶ Currently only possible through the admin page.

Report Summary

- Summary is auto generated based on the runs in the current session.
- What goes in the **HDQM Trends** section?

Conclusions

- We think the Certification Helper is mature enough to be used, starting Monday (4.12.2017).
- We are hoping to gather some feedback / find bugs.
- Currently in the process of deploying it.

Questions

- What checks must be performed on the input forms to guarantee validity?
  (e.g. no comment + one of the quality flags is 'Bad')
- What belongs in the **HDQM** section of the shift report?

- Repository:
  https://github.com/imKuehlschrank/TkDQMDoctor
- Suggestions/Feedback: filip.ilic@cern.ch, jandrea@cern.ch