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# Online DQM CMSSW applications

DQMGithubGuide

## Dropbox for new PRs on top of CMSSW\_10\_2\_5 (or lower) for P5 (online DQM)

PROVIDE A PR BASED ON CMSSW\_10\_2\_5 BRANCH TARGETED FOR CMSSW\_10\_2\_X BRANCH and send a message to [cms-dqm-coreTeam@cern.ch](mailto:cms-dqm-coreTeam@cern.ch)

- remember NOT TO base your PR on any IB, instead use 'cmsrel CMSSW\_10\_2\_5'
- a thorough testing with YOUR local GUI before submitting is needed
- a forward port with a PR to master is NEEDED if you want your changes to be included in future CMSSW releases
- if your changes are meant to be only in Online DQM for brief period of data taking and hence not to be actually merged in CMSSW or forward ported, please close the PR once you have created it

**PLEASE DO EDIT JUST BELOW THIS LINE**

**PLEASE DO EDIT JUST ABOVE THIS LINE**

## PRs under test in the Online DQM Integration/Playback System (based on CMSSW\_10\_2\_5)

**DO NOT EDIT THIS SECTION OR ANYTHING BELOW**

PRs running on top of CMSSW\_10\_2\_5:

- 2018/10/19 **L1T**: PR 24856 [↗](#) - Latest Emulator for the Kalman BMTF (on top of 10\_2\_5 - related to v2.7 of Kalman firmware).
- 2018/10/04 **BeamPixel**: PR 24802 [↗](#) (manual) - Tested new configuration that works for HI runs.
- 2018/10/03 **L1T**: PR 24793 [↗](#) - This PR fixes a SEGFAULT that might occur under specific circumstances after the merge of PR 24555.
- 2018/10/01 **Pixel**: PR 24788 [↗](#) - Fix to bug which prevent to reset FPix Cluster Position maps of positive disk every 10LS in Online.
- 2018/09/28 **HCAL**: PR 24758 [↗](#) - Makes the error condition for audio alarms for bad capid and LED misfires go away if the problem has been resolved for 60 LSes (~25 minutes).
- 2018/09/24 **L1T**: PR 24643 [↗](#) - EMTF update CSC LCT coordinate conversion "PC LUTs" to use Global Tag 102X\_dataRun2\_Sep2018Rereco\_v1
- 2018/09/20 **HCAL**: PR 24607 [↗](#) - Adds a new task to the Hcal application for monitoring the FCD demonstrator.
- 2018/09/20 **L1T**: PR 24602 [↗](#) - This is the latest available Kalman-BMTF Emulator to be used for the next short period at P5.
- 2018/08/15 **L1T**: PR 24293 [↗](#) - OMTF emulator upgrades.

Formatting notes:

- awaiting green-light from developer
- green-light given, queued for production
- in production

## 2018 HI Preparation

### 2018 HI PRs used during the September HI Test (based on CMSSW\_10\_2\_5)

- 2018/10/04 **Pixel**: PR 24788 [↗](#) - Fix to bug which prevent to reset FPix Cluster Position maps of positive disk every 10LS in Online.
- 2018/09/18 **BeamPixel**: PR 24572 [↗](#) - Tested new configuration that works for HI runs.
- 2018/09/14 **Tracker**: PR 24541 [↗](#) - SiStrip /Pixel online client setup for HI2018 workflow test (to 10\_2\_X)
- 2018/09/14 **GEM**: PR 24526 [↗](#) - GEM online DQM client update for HI run
- 2018/09/13 **HCAL**: PR 24532 [↗](#) - HI rawDataRepacker config changes
- 2018/09/13 **L1T**: PR 24530 [↗](#) - Additional HI rawDataRepacker config changes
- 2018/09/12 **HCAL**: PR 24516 [↗](#) - Overhaul HCAL LED monitoring; add quality test for bad capid rotation; adjust LEDTask/SignalRMS z-axis limits.
- 2018/08/15 **L1T**: PR 24293 [↗](#) - OMTF emulator upgrades.

### PRs needed for HI run on top of CMSSW\_10\_3\_0

- 2018/10/19 **DQM**: PR 24945 [↗](#) - online DQM GT update
- 2018/10/12 **L1T**: PR 24934 [↗](#) - Latest Emulator for the Kalman BMTF (on top of 10\_3\_0\_pre5 - Kalman v2.7 for HI Runs).
- 2018/10/18 **L1TEMU**: PR 24909 [↗](#) - Changing default values of CaloLayer2 Agreement plots to be zero in the edge case where the histograms are not filled (requires PR 24868).
- 2018/10/19 **CSC**: PR 24908 [↗](#) - Remove cscTriggerPrimitiveDigis to prevent online client from crashing.
- 2018/10/17 **RPC**: PR 24907 [↗](#) - This PR is to add new folder to test new readouts in RPC DQM Online. /MODIFIES RPCTWINMUX MODULE NAME USED IN OTHER CLIENTS
- 2018/10/16 **EVENTDISPLAY**: PR 24895 [↗](#) - HI scenario for event display
- 2018/10/16 **BEAMSPOT**: PR 24888 [↗](#) - Updates for HI

### PRs in use in the Online DQM Production System (based on CMSSW\_10\_2\_5)

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PRs running on top of CMSSW\_10\_2\_5:

- 2018/10/19 **L1T**: PR 24856 [↗](#) - Latest Emulator for the Kalman BMTF (on top of 10\_2\_5 - related to v2.7 of Kalman firmware).
- 2018/10/04 **BeamPixel**: PR 24802 [↗](#) (manual) - Tested new configuration that works for HI runs.
- 2018/10/03 **L1T**: PR 24793 [↗](#) - This PR fixes a SEGFAULT that might occur under specific circumstances after the merge of PR 24555.
- 2018/10/01 **Pixel**: PR 24788 [↗](#) - Fix to bug which prevent to reset FPix Cluster Position maps of positive disk every 10LS in Online.
- 2018/09/28 **HCAL**: PR 24758 [↗](#) - Makes the error condition for audio alarms for bad capid and LED misfires go away if the problem has been resolved for 60 LSes (~25 minutes).
- 2018/09/24 **L1T**: PR 24643 [↗](#) - EMTF update CSC LCT coordinate conversion "PC LUTs" to use Global Tag 102X\_dataRun2\_Sep2018Rereco\_v1
- 2018/09/20 **HCAL**: PR 24607 [↗](#) - Adds a new task to the Hcal application for monitoring the FCD demonstrator.

## DQMTagCollectorTest < Sandbox < TWiki

- 2018/09/20 **L1T**: PR 24602 [↗](#) - This is the latest available Kalman-BMTF Emulator to be used for the next short period at P5.
- 2018/08/15 **L1T**: PR 24293 [↗](#) - OMTF emulator upgrades.

Formatting notes:

- in production
- hanging PR (fully signed, not merged)

# Online and Offline DQM GUI

This is for **render plugins, layouts and workspaces**. Please first read the instructions.

## Dropbox for new PRs for the Online DQM GUI

Put your new PR here **and** send a message to [cms-dqm-coreTeam@cernNOSPAMPLEASE.ch](mailto:cms-dqm-coreTeam@cernNOSPAMPLEASE.ch) . List of open [dmwm/deployment PRs](#) is here.

**PLEASE DO EDIT JUST BELOW THIS LINE**

<!-- Please use the below example for each PR you submit - ( (!!)leave 3 spaces(!!) before the first \* to get a correct list bullet) -->

<!-- Example \* YYYYMMDD **Subsystem**: PR xxx - Description or title of the PR.-->

- 2018/09/12 **HCAL**: PR 675 - Have the HCAL bad capid and LED misfire alarms go away after 60 LSes (desired if the problem is fixed without stop-starting the run).

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## PRs under test on the DQM Test GUI & Playback GUI (based on HG1809b and master branch)

- The gui test server: <http://cmsweb.cern.ch/dqm/online-test>
- The playback server: <http://cmsweb.cern.ch/dqm/online-playback>

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## PRs used on the DQM GUI Production Systems (based on HG1809b and master branch)

- 2018/09/12 **HCAL**: PR 675 - Have the HCAL bad capid and LED misfire alarms go away after 60 LSes (desired if the problem is fixed without stop-starting the run).
- The primary production server: <http://dqm-prod-local.cms:8030/dqm/online> (only from P5)
- The secondary production server: <http://cmsweb.cern.ch/dqm/online>

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%RESPONSIBLE% TomasHreus  
-- AndriusKirilovas - 2018-10-23

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This topic: [Sandbox > DQMTagCollectorTest](#)  
Topic revision: r1 - 2018-10-23 - [AndriusKirilovas](#)



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