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Remote DQM shifts at DESY

This Twiki page contains a brief guideline for the DQM offline shifter working from the CMS remote centre at DESY.

General Information

Since the start of the global running in 2010 remote DQM shifts at DESY are offline DQM shifts. These shifts are operated in four shifts per day with six hours each.

DESY has taken responsibility to cover the offline DQM shift in the afternoon between 1:00 pm and 7:00 pm during CMS Global Runs. To sign up for offline DQM shifts at DESY, please contact Guenter Eckerlin or Dirk Krücker.

Shift Schedules

- CMS Daily Shiftlist Calendar [↗](#) (includes the names of the current shift crew)
- CMS Online CMS Shift Schedule

Preparation For Your Shift

- To access the CMS Centre at DESY (located in 1b/343) you need a DACHS access card with the permission for CMS.
If you do not have this card, please contact Guenter Eckerlin in advance.
- Make sure that you have a valid CERN AFS/NICE account.
- **IMPORTANT:** Please read carefully and completely the general Offline DQM Shift Instructions and the detailed instructions for the remote DQM shifts at the DESY CMS Centre (soon available) [↗](#) at the beginning of each shift. The instructions may have changed since your last shift. In case of any questions, please contact Guenter Eckerlin, Dirk Kruecker or Niklas Pietsch.
- You should have done DQM online shifts at P5 before your first offline shift. Sign up for online shifts using the DQM Shiftlist.
- It is mandatory that you attend a shift tutorial [↗](#) and an offline shift training before your first shift. Shift tutorials are given weekly at CERN on Monday 2 pm with EVO connection. To get an offline shift training at the DESY CMS Centre (~ 1h) please contact Dirk Kruecker or Niklas Pietsch.
- It is helpful to join the current offline shifter at the DESY CMS Centre before your first shift.

At the Start of Your Shift

- Set up the work environment:
 - ◆ Login at two DQM shift PCs (desyccxx) with userid 'cmsonl'. Each PC is associated with two screens.
 - ◆ Establish an ssh tunnel to CERN from the left PC.
Show Hide
Open a shell and type 'cmstunnel YourCernUsername' (e.g. 'cmstunnel npietsch'). Enter your NICE password. This has to be done because the Run Registry is accessible only within CERN domain. Leave the terminal open until the end of your shift.
 - ◆ Open a Mozilla Firefox browser in each of the four screens. The webpages you need and their recommended positioning are described below.
Show Hide
 - ◇ **Screen 1** (left PC, left screen): Open the page bookmarked as 'CMS online' in the folder 'Online,ELog'. Go to 'ELog'.

- To see online and offline shift summaries and problem reports go to 'Subsystems' and then 'Event Display and DQM'. If you want to create a new shift summary or problem report click on 'New'.
- To see online shift details go to 'General' and then 'shift'.
- ◇ **Screen 2** (left PC, right screen): Open the Run Registry bookmarked as 'Global DQM Run Registry' in the folder 'RunRegistry, To monitor'. (The ssh tunnel to CERN has to be established before.) Login with your Cern username and NICE password.
 - To communicate with P5 and Meyrin open the Message Board in the menu 'tools'.
 - To add an offline dataset click on the according run number and then on 'Add Offline Dataset'.
 - To edit an offline dataset click on the according dataset and then on 'Edit'.
- ◇ **Screen 3** (right PC, left screen): Open the DQM GUI bookmarked in the folder 'DQM GUI Online'. By default you see the summary map of the current online run. For offline DQM go to:
 - Service: Offline. **Note:** The left arrow in the navigation toolbar brings you always back to Service: Online.
 - Run: xyz. (The run to analyze is chosen according to the Offline DQM Shift Instructions. **Make sure you have chosen the right dataset:** /StreamExpress/ ... !)
 - Workspace: Summary, Shift or Reports.
- ◇ **Screen 4** (right PC, right screen): Open the DQM Shift instructions bookmarked in the folder 'Help & Info'
- Establish audio/video communication with P5 using the polycom system in case the connection is dropped.
Show ▾ Hide ▾
- Take over offline DQM shift:
 - ◆ Read the summary of the previous offline DQM shifter or contact him/her to find out what happened during the last offline shift.
 - ◆ Login to the Run Registry and open the Message Board to establish communication with P5 and Meyrin.

During Your Shift: Task Overview

As a remote DQM shifter, you are responsible for the certification of the reconstructed data sets, both from the Express Stream as well as the Re-Reconstruction.

To do this your main tool is the web based DQM GUI which you will use to inspect the histograms from POGs and DPGs.

Throughout your shift, you should follow closely the Offline DQM Shift instructions.

In the case that any instruction is unclear ask the shift coordinator and/or send an e-mail to the subsystem contact. In any case, please submit a problem report to the ELog. Important telephone numbers are given below, subsystem contacts can be found in the Offline DQM Shift instructions for the subsystems. Names of current shifters and subsystem experts are given in the Shift Schedules.

At the End of Your Shift

- Submit your shift summary to the ELog. Keep in mind that the shift summary should contain a concise report about observations during your shift. Anything relevant (e.g. ideas for improvement of the system, complaints about missing histogram descriptions etc.) that does not fit in the Run Registry or Run Registry Message Board is encouraged to be placed within your shift summary.
- Provide the shift handover to the oncoming shift person at FNAL (via message board, phone or

polycom).

- Log off from the PCs which have your personal credentials, but please Do NOT turn the PCs off.

Important Phone Numbers

Subject:	Contact Person:	Phone Number (office/cell):
<i>Shift Coordination</i>	Guenter Eckerlin Dirk Kruecker	2582 / 9-2582 3749
<i>Computing and Network</i>	Ingo Martens	2004
<i>Video System</i>	Reinhard Eisberg	2511 / 9-2511
<i>Offline DQM shift at CC Meyrin</i>		*611 72936
<i>Online DQM shift at P5</i>		*611 75291
<i>Shift leader at P5</i>		*611 77110

Material

- OnlineDQMShiftTutorial.pdf: Shift tutorial slides for February 2010 (pdf)

-- NiklasPietsch - 16-Apr-2010

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