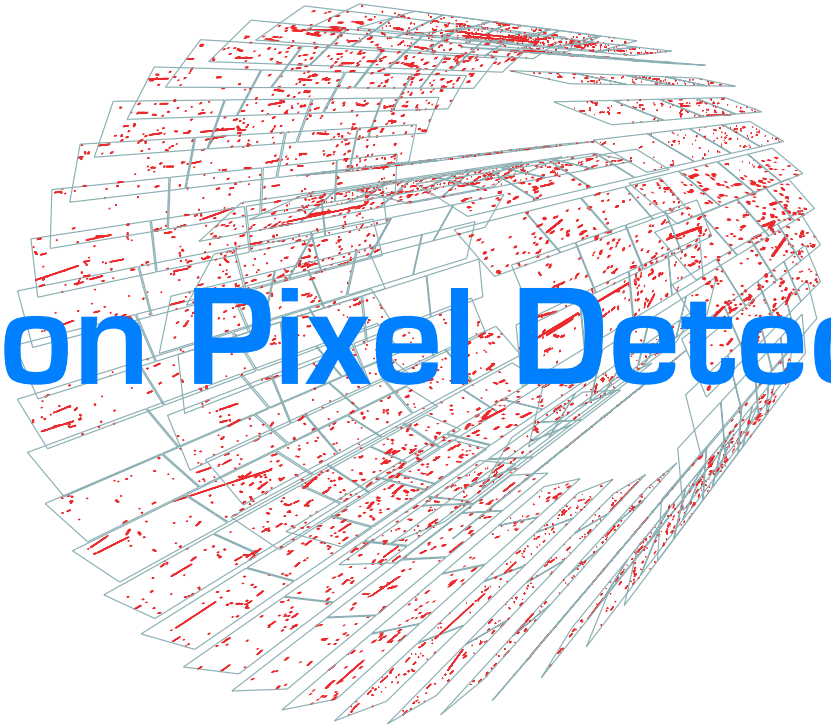
ALICE



Silicon Pixel Detector

Domenico Colella[1] and Cristina Terrevoli[2]
for the SPD team
[1]INFN, Bari, Italy
[2]Università and INFN, Padova, Italy

SPD team (2017)

- Team Leader: Vito Manzari
- Operations
  - System Run Coordinator: Domenico Colella
  - System Run Coordinator (deputy): Cristina Terrevoli
  - On-call operators
    - Bari: Marianna Mazzilli, Giuseppe Trombetta, Fabio Colamaria, Domenico C.
    - Catania: Kunal Gang
    - Padova: Cristina Terrevoli, Andrea Rossi, Xinye Peng, Mattia Faggin, Rosario Turrisi
- Online/Offline monitoring and QA
  - Coordinator: Giuseppe Trombetta
  - Operators: Giuseppe Trombetta, Marianna Mazzilli, Fabio Colamaria, Andrea Festanti (OCDB), Xinye Peng
- Experts
  - DCS: Andrea Alici
  - Hardware: Michel Morel
  - Firmware: Gianluca Aglieri Rinella
  - Online/Offline monitoring and QA: Annalisa Mastroserio
  - Cooling plant: Rosario Turrisi

SPD on-call shifter daily duties

① Be aware of the detector and machine plans.
- Check the plan with the previous on-call shifter; collect all the possible information in the control room from shifters, shift leader or run manager.
- Follow the LHC activity on Opvistars.
- Follow the activity in ALICE control room also by remote: DCS monitoring, ECS display.

② Mark daily the taken runs as GOOD/BAD in the Logbook, after checking at the DQM plots present there and update the SPD_Run2_DataTaking sheet

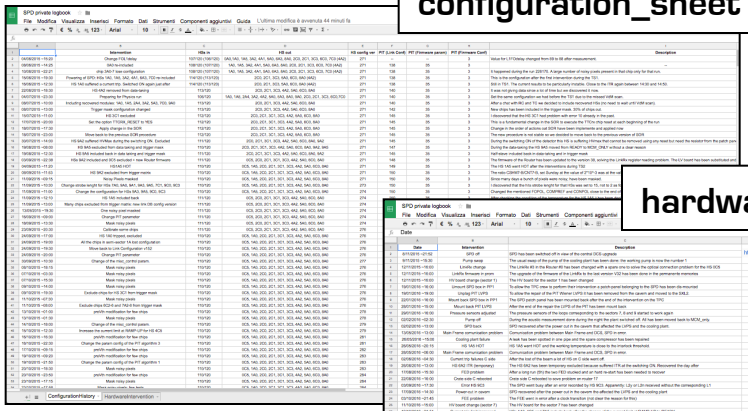
③ Report about any daily activity to the ITS RC before the operation daily meeting at P2 (16:30); you are strongly suggested to join the daily meeting and follow the ALICE activity.

④ In case the SPD stops a Physics run or suffered whatever problem, fast reaction is needed. SPD is a fundamental detector and data taking cannot continue until it is back. We must react fast.
- Solve the problem as soon as possible; procedures are described in the operational manual.
- Enter a detailed description of the fact in the Logbook (tick "on-call interventions" and "SPD" as system). If needed, enter a useful comment for the offline as a follow-up to the last stopped run by SPD.
- Add a line in the configuration_sheet if a change in the configuration of the detector happened, otherwise add a line in the hardware_intervention_sheet.

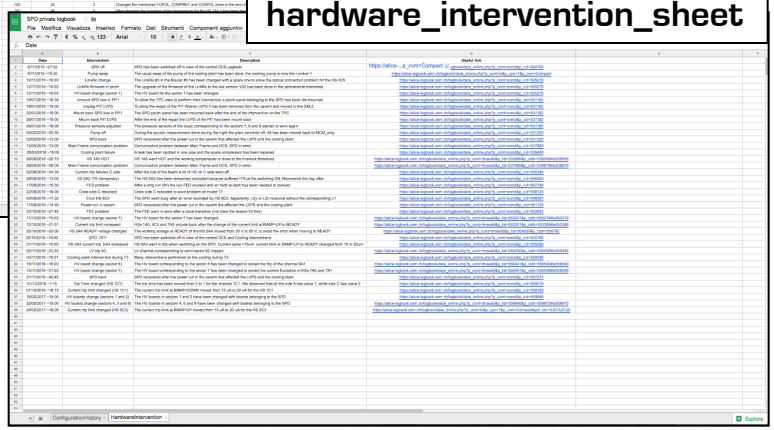
SPD private logbook and documentations

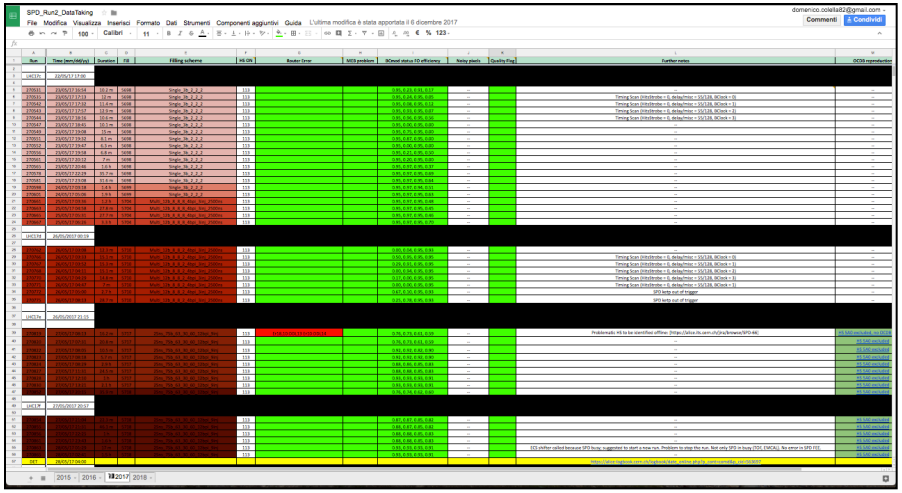
- Private logbook: https://drive.google.com/open?id=1ALu-dcIrcyfGPN53uaNbNRP2ru5-BEOUUHDIyVKlJ3s

configuration_sheet



hardware_intervention_sheet



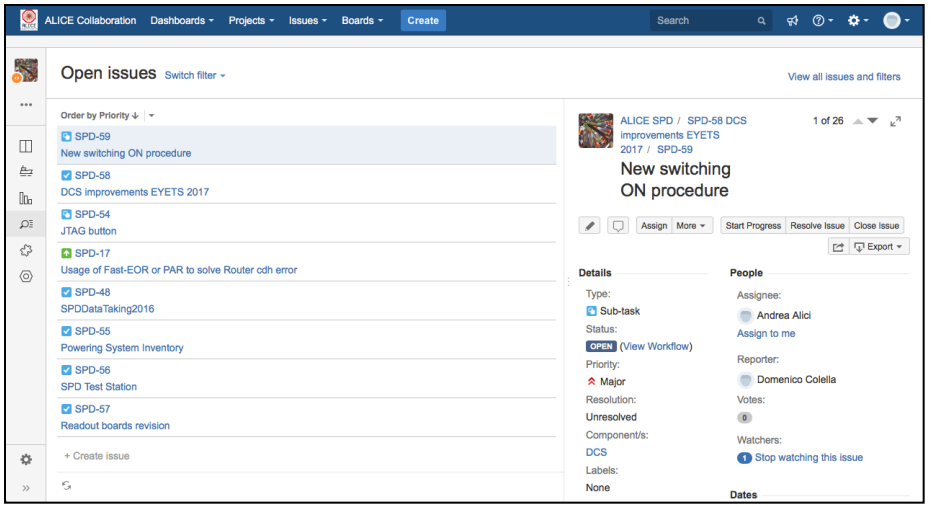


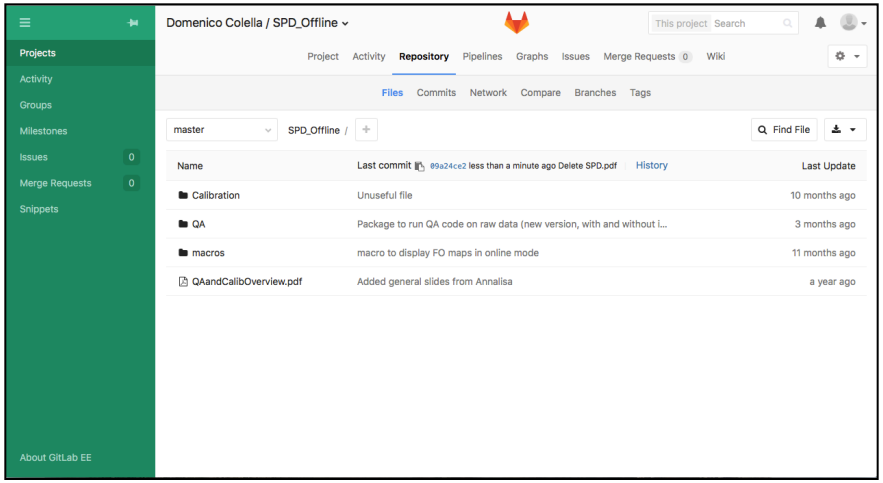
- Data Taking summary: https://docs.google.com/spreadsheets/d/12Q6mYsKPeWOuYrmEnpA1ej6WtaFH2RaG9jVJyB9MlHc/edit#gid=1905141983

SPD private logbook and documentations

Documents

- Operational Manual: https://drive.google.com/file/d/0B5nG1xNTPzEJODk4bkFyZW5QWUk/view?usp=sharing
- On-call shift duty: https://drive.google.com/file/d/0B5nG1xNTPzEJdVNWZ3JMbFNKMEO/view?usp=sharing
- JIRA project: https://alice.its.cern.ch/jira/projects/SPD/summary
- GITLab repository: https://gitlab.cern.ch/dcolella/SPD_Offline





LHC 2018 calendar

2018 Run Preparation meeting:
https://indico.cern.ch/event/704590/contributions/2890494/attachments/1599339/2535020/2018_Run_Preparation.pdf

LHC and ALICE

- pp@13 TeV + Pb—Pb@5.02 TeV
  - ~130 days of pp physics data taking from April to October
  - ~25 days of Pb—Pb physics data taking during November
- Long Shutdown 2 from week 49

SPD

- Shifts on-call starts on 5th March and ends on 2nd December (39 weeks, ~273 days)
  - Bari: 22 weeks
  - Catania: 1 + 2 weeks
  - Padova: 14 weeks

Useful links

SPD

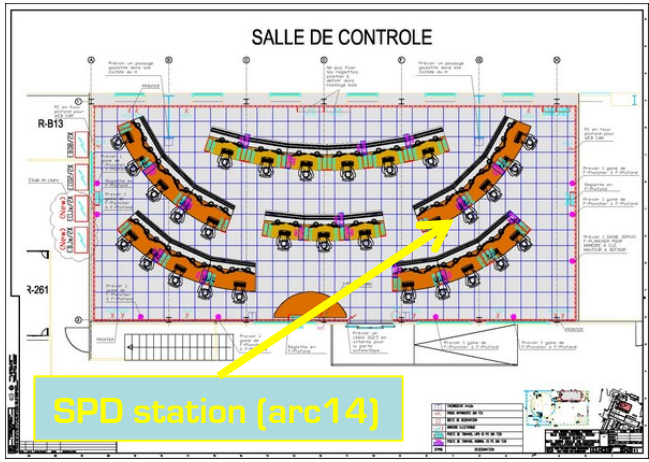
[1] Main website: http://alice-spd.web.cern.ch
[2] SPD operational manual: https://drive.google.com/file/d/0B5nG1xNTPzEJODk4bkFyZW5QWUk/view?usp=sharing
[3] SPD on-call instructions: https://drive.google.com/file/d/0B5nG1xNTPzEJdVNWZ3JMbFNKMEO/view?usp=sharing
[4] Private logbook: https://drive.google.com/open?id=1ALu-dclrcyfGPN53uaNbNRP2ru5-BEOUUHDlyVKlJ3s
[5] Run2 data-taking : https://drive.google.com/open?id=12Q6mYsKPeWOuYrmEnpA1ej6WtaFH2RaG9jVJyB9MlHc
[6] JIRA project: https://alice.its.cern.ch/jira/projects/SPD/summary
[7] GitLab Offline project: https://gitlab.cern.ch/dcolella/SPD_Offline

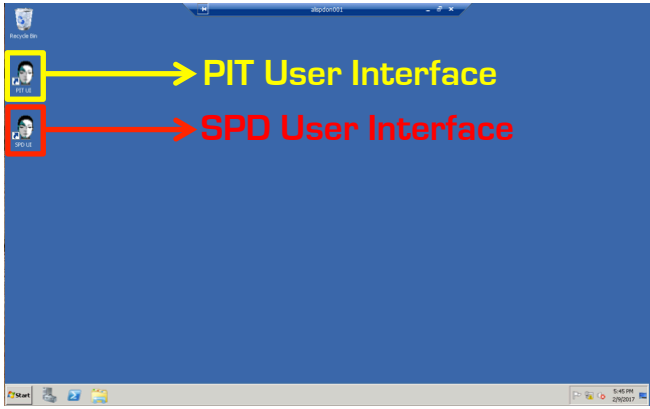
ARC@P2

[8] Logbook: https://alice-logbook.cern.ch/logbook/date_online.php?p_cont=lc&p_cvm=Compact&pcf_ctc=,,20&p_cpn=1
[9] ECS display: https://aldaqweb.cern.ch/sd/
[10] DCS monitoring: http://alicedcs.web.cern.ch/AliceDCS/monitoring/main.aspx
[11] LHC page 1: https://op-webtools.web.cern.ch/vistar/vistars.php?usr=LHC1
[12] ALICE Run Coordination webpage: http://alice-collaboration.web.cern.ch/run_coordination/run/index.html
[13] ALICE data taking description (Federico R. 28 Nov 2014 Junior's day):
https://indico.cern.ch/event/347071/session/0/contribution/72/material/slides/2.pdf

Backup

SPD station at P2





- A dedicated station is present at P2, as shown on right. Actually one could log as SPD operator form all the PC present in ARC. Login credential are reported in the operation manual[2].
- Open the detector control environment:
  - SPD control panel – Log in to alispdon001 (rdesktop –a16 –g2550x980 alispdon001) using your personal NICE account. Click on the interface icon and log in with SPD account (credential in operation manual[2]).
  - PIT control panel – Accessible from the same machine as the SPD control panel. Click on the interface icon and log in with SPD.
- Access to the detector control environment from remote
  - Install on your laptop Microsoft Remote Desktop
  - If you are within the CERN network, you can access directly to the P2 network through the gateway, alidcsgw, using your NICE account. Remember to put "CERN\" before your name account.
  - If you are out of the CERN network, you have to access to the gateway, cernts.cern.ch, using your NICE account. After that you can proceed as in the previous case, using the available remote desktop in the gateway interface.