





ROD Firmware current status

Nico Giangiacomi University and INFN Bologna

RodPrm

Repository: https://gitlab.cern.ch/pixelrod_firmware/rodprm
Main branches:

- master → "standard" (2018 dataTaking) firmware + fix on resetPLL
- user/bologna/Firmware_UBP \rightarrow new SPI bus + added FIFO for current SPI bus + ICAP \rightarrow requires new RodMaster

ICAP = another way to restart Firmware from PROM. Very useful for PRM because jtag chain usually not available!

RodMaster

Repository: https://gitlab.cern.ch/pixelrod_firmware/RodMaster

Main branches:

- master → "standard" (2018 dataTaking) firmware (veto counters)
- New_**features** → aceplayer + (new PPC) + ICAP interface for PRM and Slaves

Main development branches:

• newMasterTTCEmu → TTC emulator inside RodMaster firmware

RodSlave

Repository: https://gitlab.cern.ch/pixelrod_firmware/RodSlave

Main branches:

- master → "standard" (2018 dataTaking) firmware + fix on Slink (SSTL termination)
 divided into Pixel FW and IBL FW (dataTaking an calibration together)
- **Firmware_separated** → dataTaking and Calibration fw are separated. divided into Pixel DataTaking FW, Picel Calibration FW, IBL DataTaking FW and IBL Calibration FW

Main development branches:

- Firmware_SmartL1IDAlgorithm → "Firmware_separated" + smart L1ID algorithm
- Firmware_2018style_NewMerger → "master" + new merger

Extra: CERNBOX

https://cernbox.cern.ch/index.php/s/ISH0LSCCW6j8CfM

CI generated firmware stored into **CERNBOX** and fully accessible.

Folder name: "commit date + short SHA"

