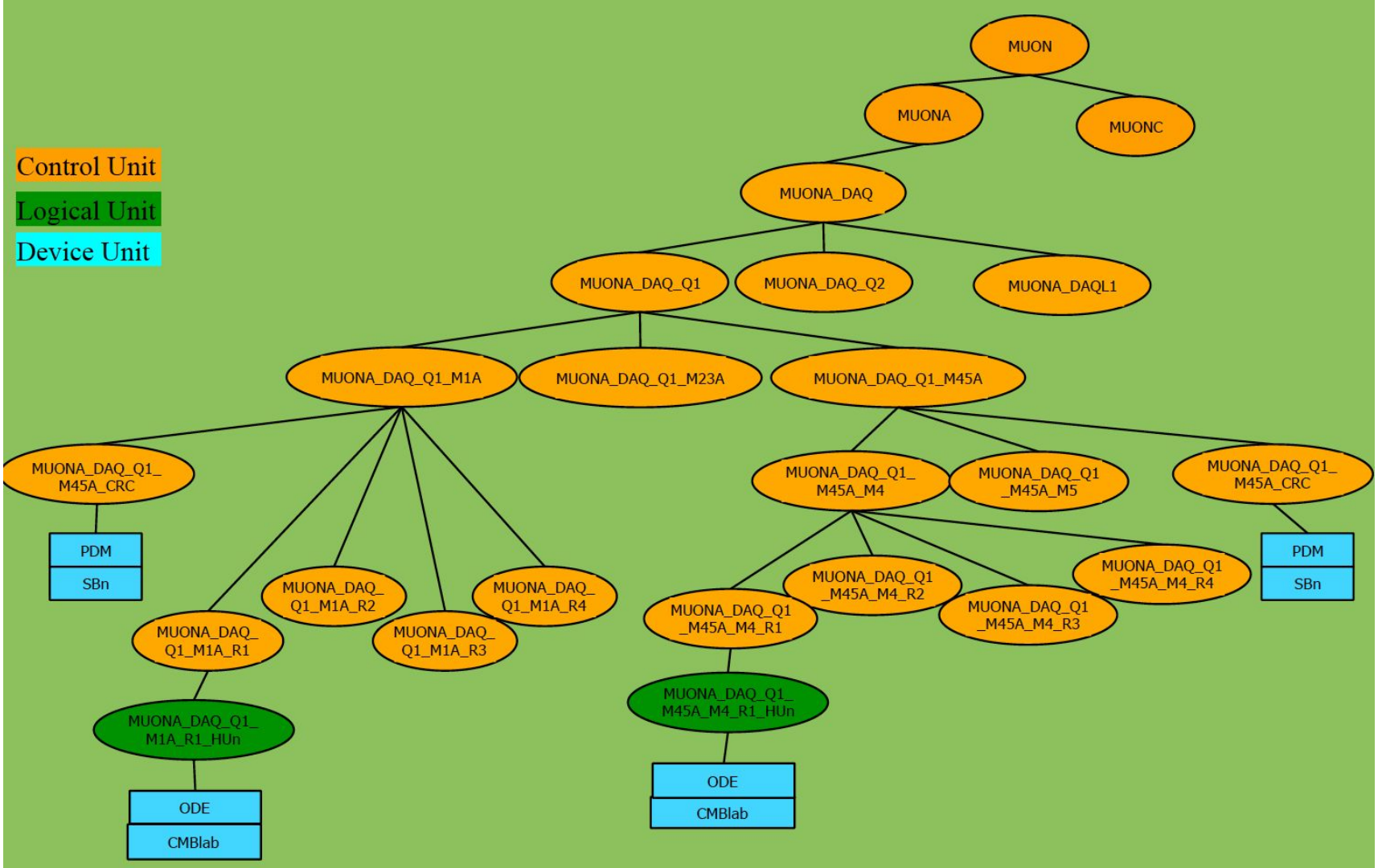
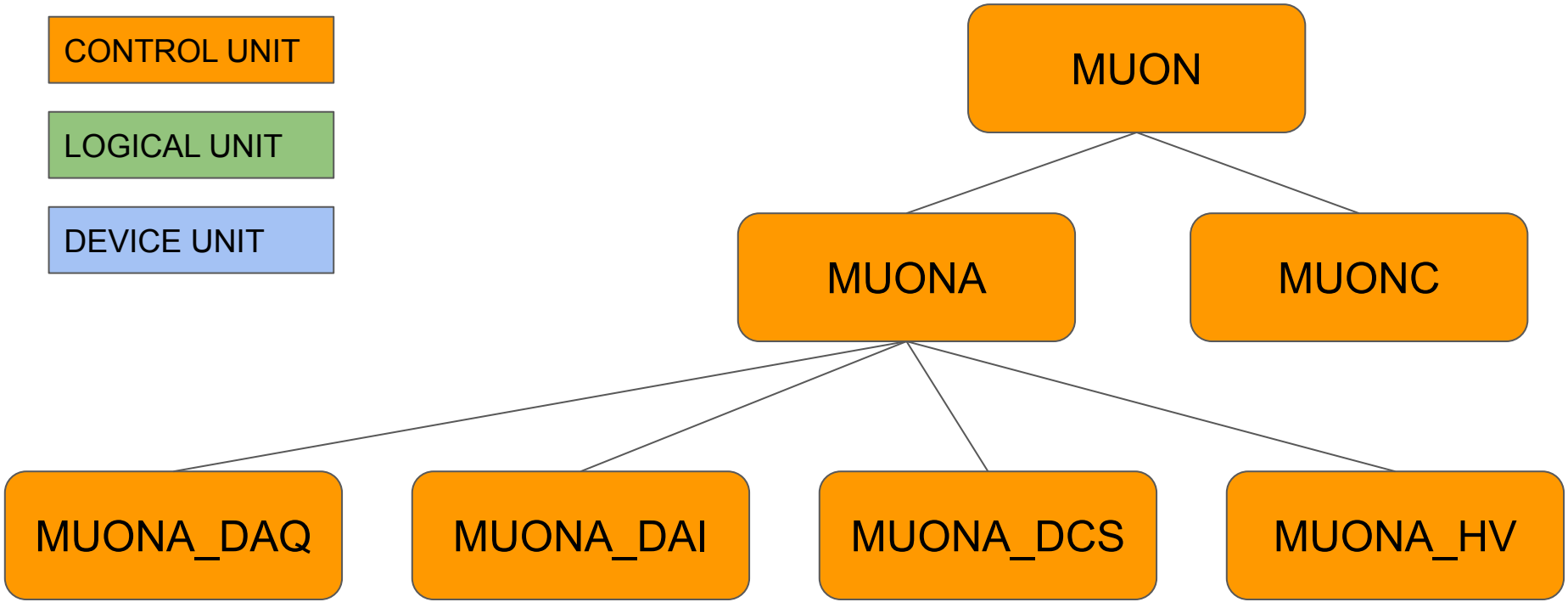
LHCb Upgrade - Muon FSM


Control Unit
Logical Unit
Device Unit
MUON
MUONA
MUONC
MUONA_DAQ
MUONA_DAQ_Q1
MUONA_DAQ_Q2
MUONA_DAQL1
MUONA_DAQ_Q1_M1A
MUONA_DAQ_Q1_M23A
MUONA_DAQ_Q1_M45A
MUONA_DAQ_Q1_M45A_CRC
PDM
SBn
MUONA_DAQ_Q1_M1A_R2
MUONA_DAQ_Q1_M1A_R4
MUONA_DAQ_Q1_M1A_R1
MUONA_DAQ_Q1_M1A_R3
MUONA_DAQ_Q1_M1A_R1_HUn
ODE
CMBlab
MUONA_DAQ_Q1_M45A_M4
MUONA_DAQ_Q1_M45A_M5
MUONA_DAQ_Q1_M45A_CRC
PDM
SBn
MUONA_DAQ_Q1_M45A_M4_R2
MUONA_DAQ_Q1_M45A_M4_R4
MUONA_DAQ_Q1_M45A_M4_R1
MUONA_DAQ_Q1_M45A_M4_R3
MUONA_DAQ_Q1_M45A_M4_R1_HUn
ODE
CMBlab

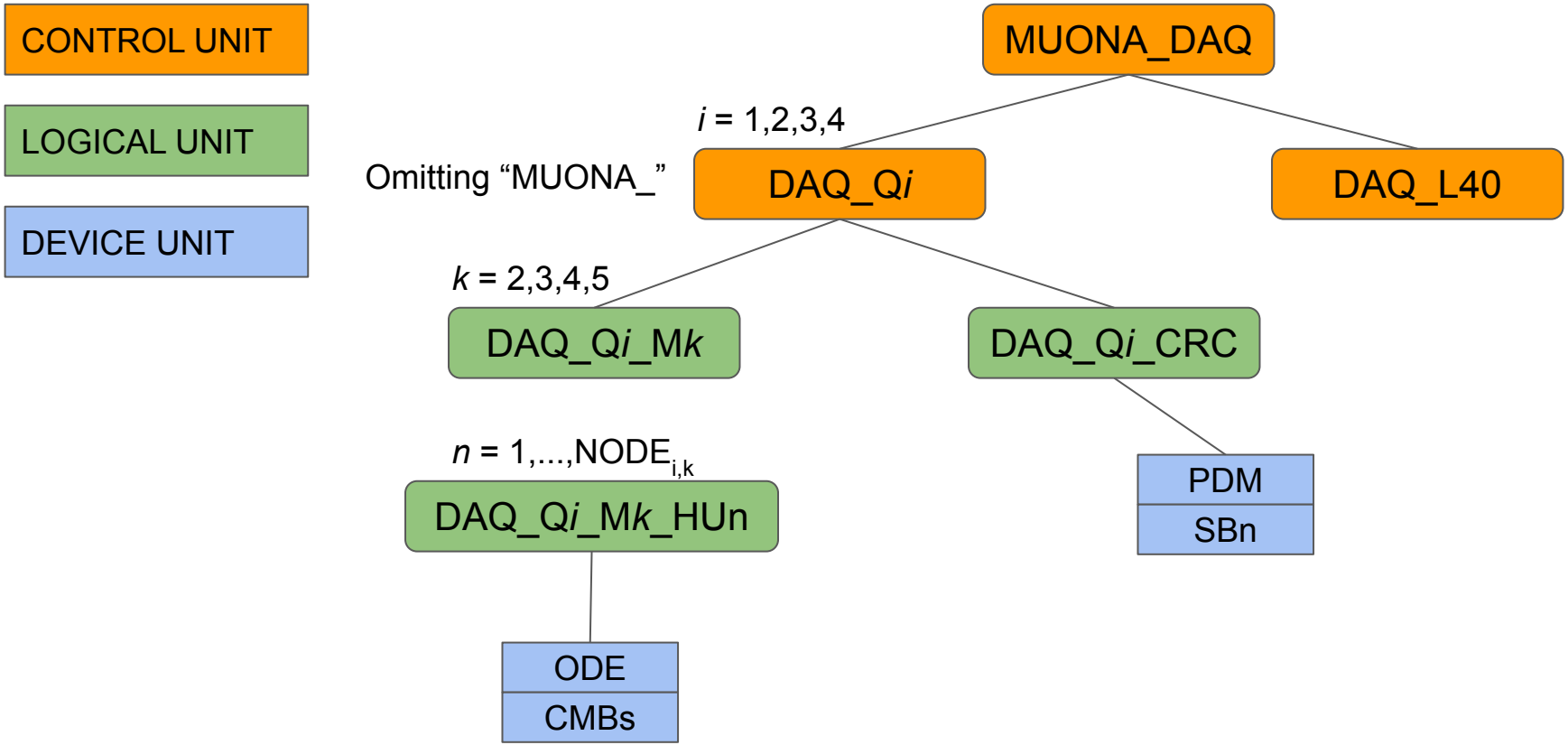
From old FSM to new FSM

- Old FSM has too many control units, reduce the number drastically
- Do we want to keep the division in side A & C? If yes, we keep it like it is or we move it down the tree?
- Keep sides as they are from the time being

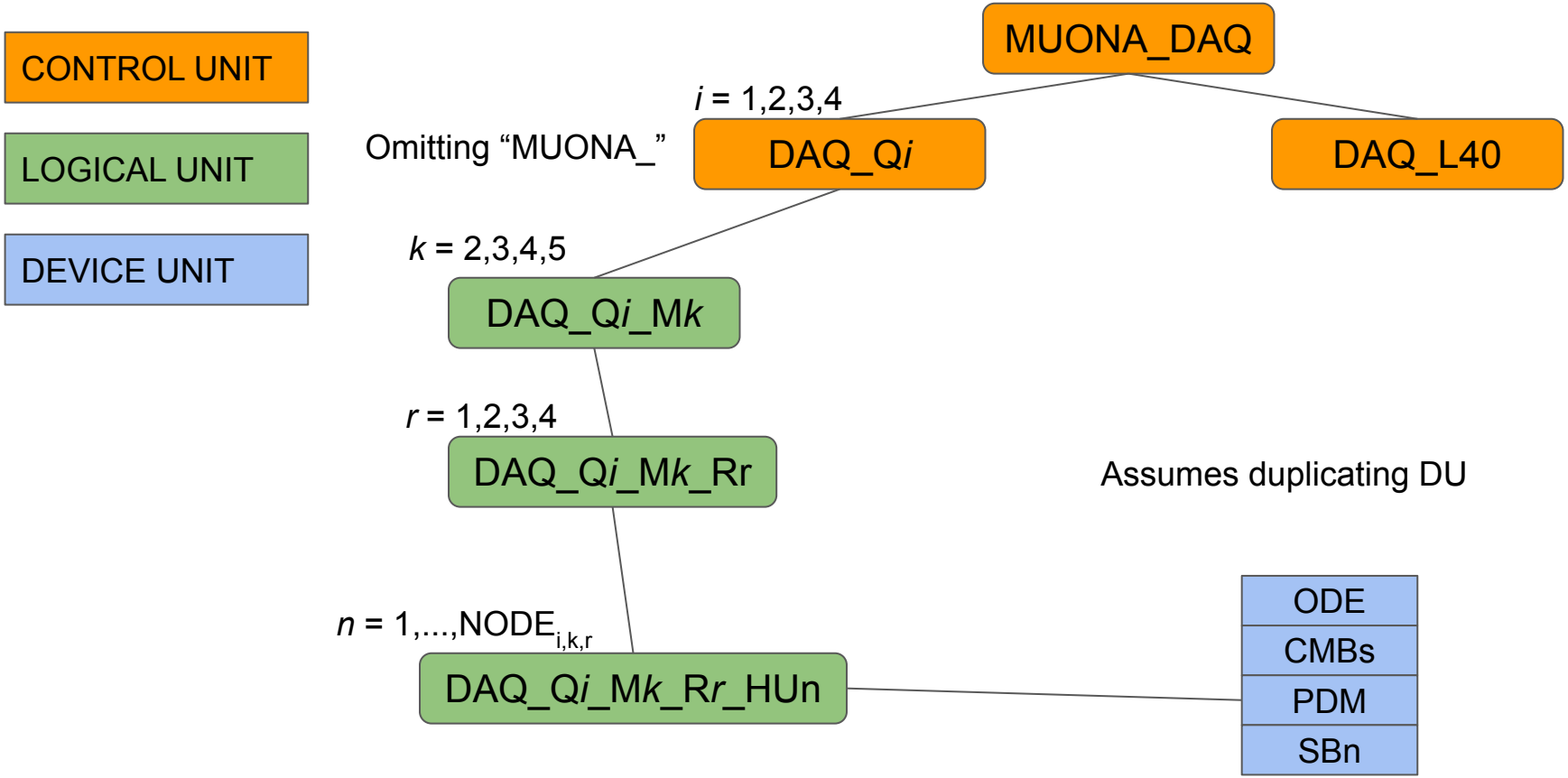
New FSM - Top levels



New FSM - DAQ reorganisation

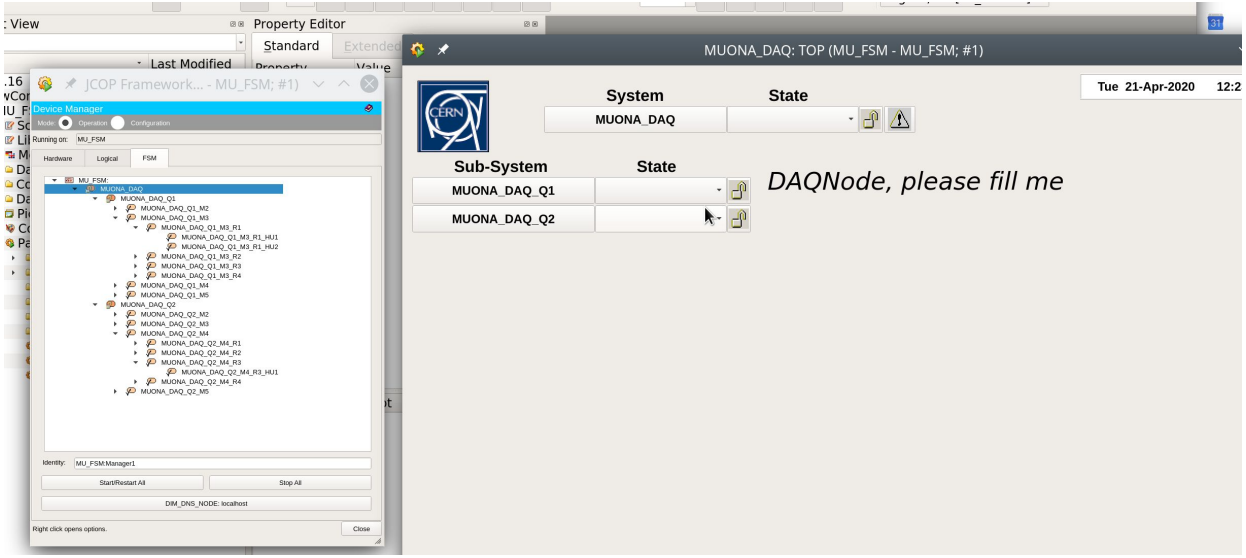


New FSM - DAQ reorganisation, an alternative



Updates - Done

- Both layouts have been sent to Clara and Luis, still no feedback....
- I can create arbitrary DAQ hierarchy (and HV,DAI,DCS if I wanted to) in my local machine
- It is no problem to have more than one layout in parallel



Update - To Do

- I modified and simplified part of old Sandro’s panel/code that generated the DAQ hierarchy using the latest guidelines. I have only dealt with CU and LU so far
- Plan for the next days
  - Attending the FSM course now...
  - Run my project in Rome machine (thanks Sofia for setting things up)
  - I would like to see the devices that are ready for the hierarchy to start creating the necessary DU and LU types for the FSM.

New FSM- Thoughts

- DAQ_L1 could also be a LU?
- Probably also the quadrants...