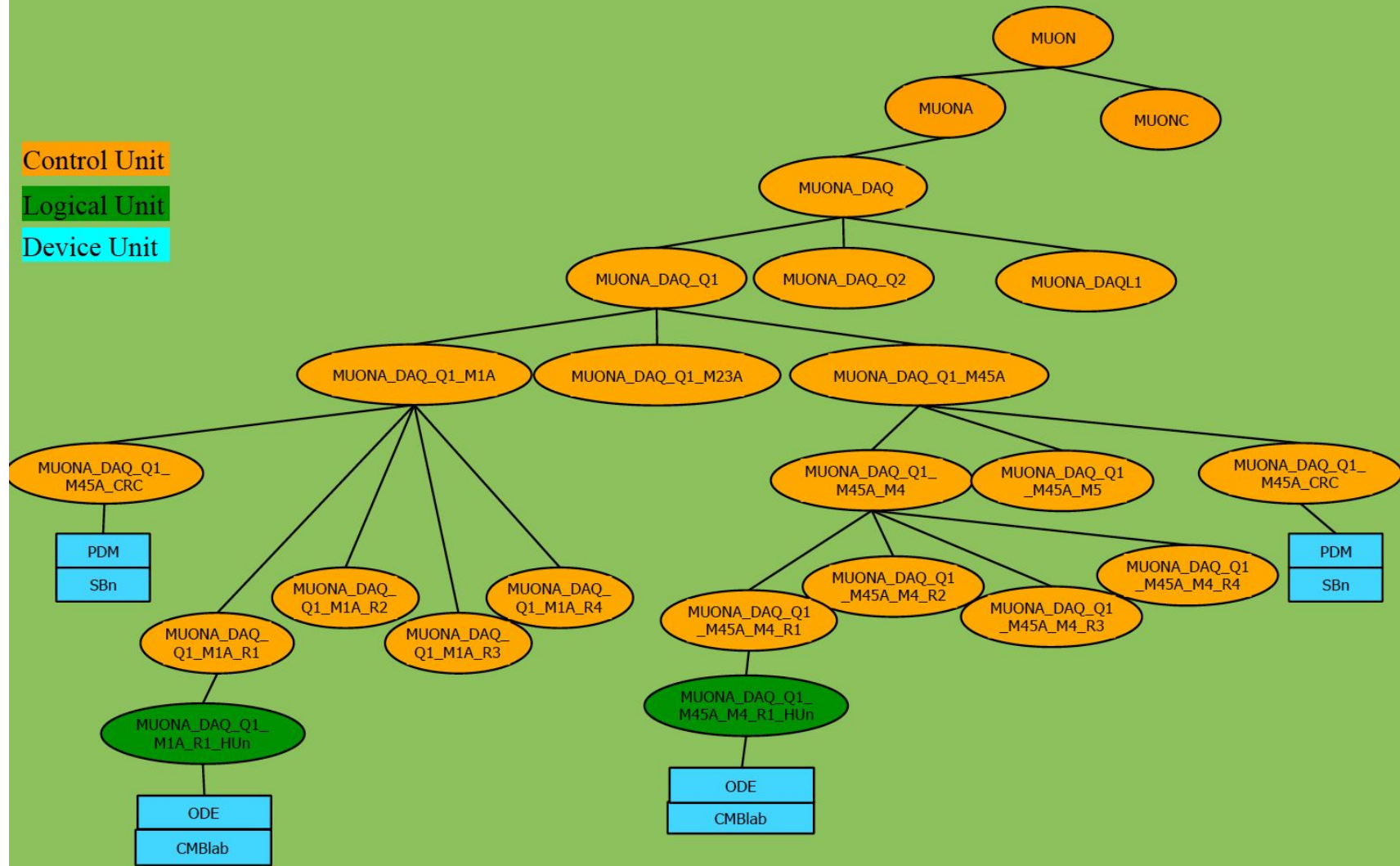


LHCb Upgrade - Muon FSM

Control Unit

Logical Unit

Device Unit



From old FSM to new FSM

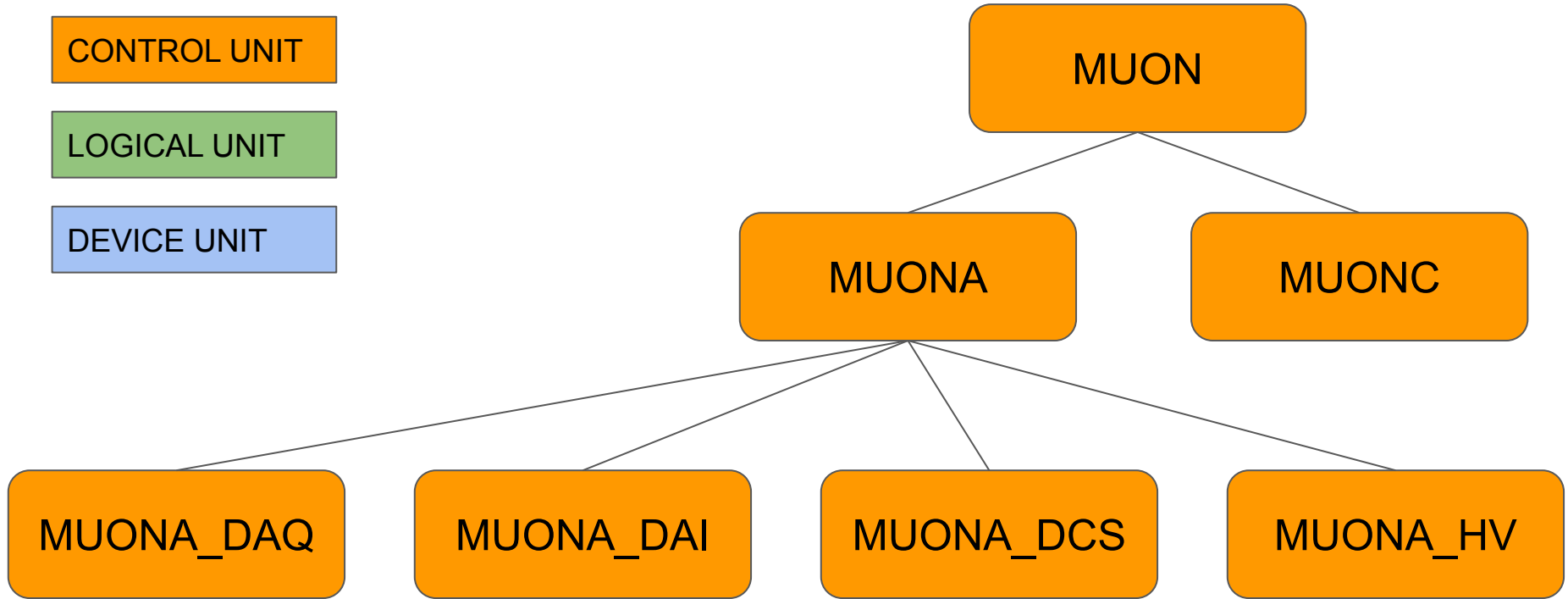
- Old FSM has too many control units, reduce the number drastically
- Do we want to keep the division in side A & C? If yes, we keep it like it is or we move it down the tree?
- Keep sides as they are from the time being

New FSM - Top levels

CONTROL UNIT

LOGICAL UNIT

DEVICE UNIT

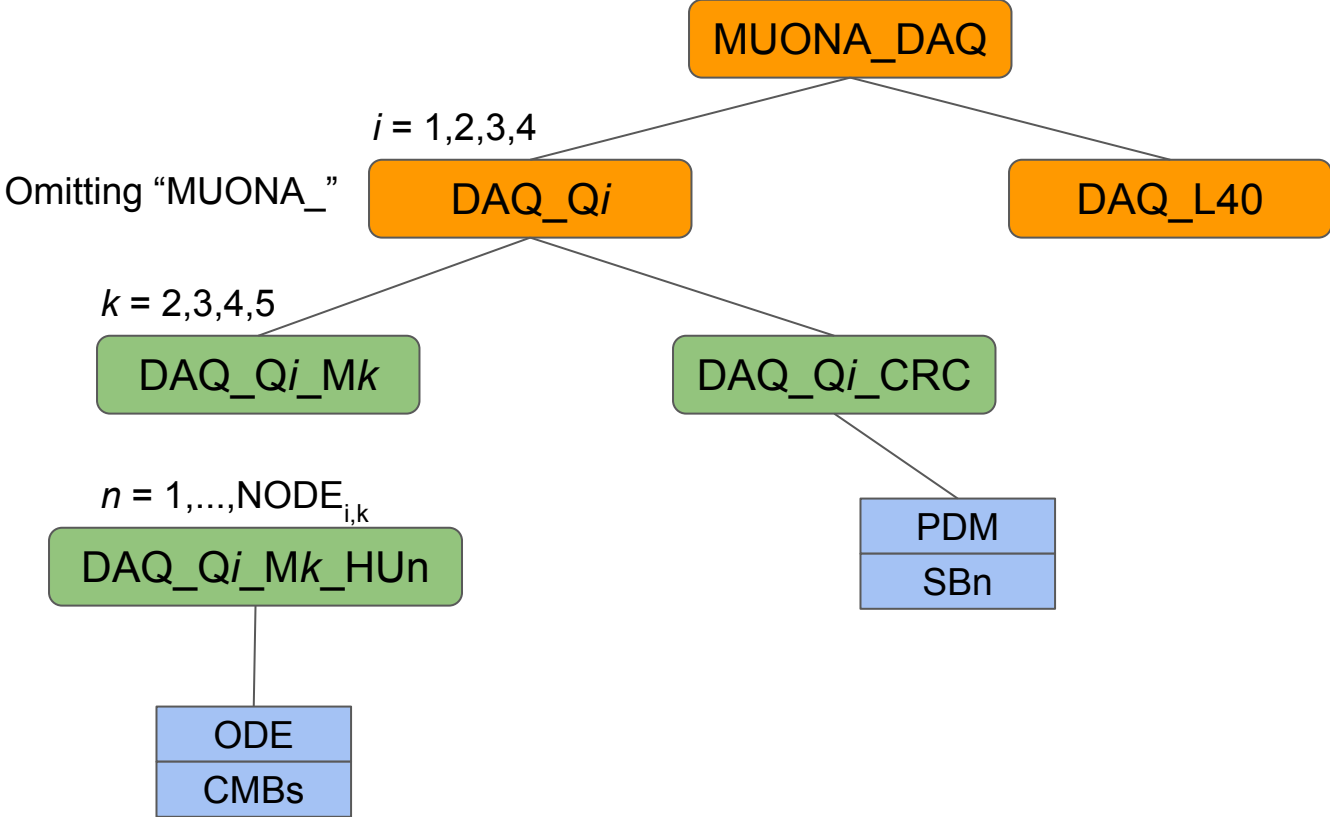


New FSM - DAQ reorganisation

CONTROL UNIT

LOGICAL UNIT

DEVICE UNIT

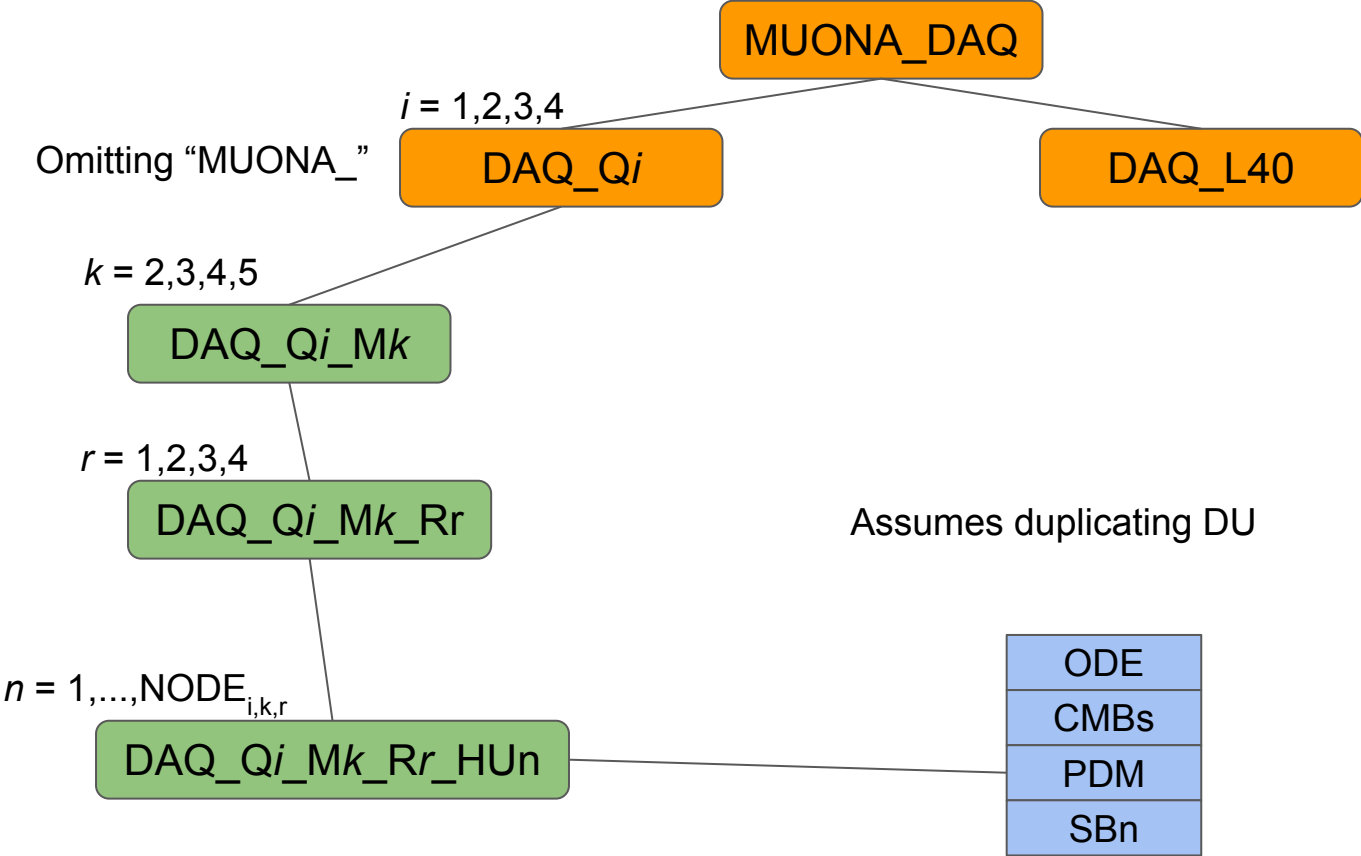


New FSM - DAQ reorganisation, an alternative

CONTROL UNIT

LOGICAL UNIT

DEVICE UNIT



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

The screenshot displays a software interface for managing a system. On the left, a 'Device Manager' window shows a tree view of the system hierarchy under 'MUON DAQ'. The tree includes sub-nodes for 'MUON DAQ_Q1' and 'MUON DAQ_Q2', each with further sub-nodes labeled 'M1' through 'M5'. The main window shows the 'System' and 'State' for 'MUON DAQ'. The 'System' is 'MUON DAQ' and the 'State' is empty. Below this, the 'Sub-System' and 'State' are shown for 'MUON DAQ_Q1' and 'MUON DAQ_Q2'. The 'State' for 'MUON DAQ_Q2' is empty, and a note next to it says 'DAQNode, please fill me'. The interface also shows a 'CERN' logo and a date/time stamp 'Tue 21-Apr-2020 12:2'.

System	State
MUON DAQ	

Sub-System	State
MUON DAQ_Q1	
MUON DAQ_Q2	

DAQNode, please fill me

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...