











- Since CM37
- C&M Organization
- Progress on Integration
- Other items







- Proton absorber
- UPS monitoring
- C&M organization
- SS1 state machine
- FC1 state machine
- DS state machine
- Integration plan
- Integrated QPS



Since CM37 - FC







Since CM37 - SS













- Large systems provided by controls team from Daresbury lab:
 - SS/FC/DS/conventional magnets
 - LH₂ system
 - Integrated cooling channel controls
 - FC/DS quench protection
- Target and Tracker controls provided by Leaver/Robinson/Adey
- Overall coordination/integration by Hanlet







- Daresbury will also provide the repackaging of the control systems for Steps IV and V/VI
 - new rack room RR2 (see Griffiths)
 - new vacuum manifold
 - compressors
 - power supplies



C&M Organization





Pierrick M. Hanlet – 23 February 2014







- With items developed and functional
- Next task is integration
 1.hardware installation/commissioning
 2.higher level operations StateMachines
 3.integrated operations RunControl

More on Wednesday



Step IV Operations



Vacuum
Compressors
Cryogenics
Pressure
Power Supply

- Vacuum
 Compressors
 Cryogenics
 Pressure
 Power Supply
 Pierrick M. Hanlet 23 February 2014
- Vacuum
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With installation/commissioning of the new controls HW (DL), the subsystems must be able to operate together, share resources, and not adversely affect each other. These are handled by:

- State Machines for each major subsystem
- Mother State Machine
- Run Control

Documented in MICE Note 431



State Machines







State Machines



Existing State Machines:

- •SS1
- •FC1
- •DS
- Still need: •Target •Beamline •Tracker









Other Items





- Infrastructure (see lan's talk)
 computing
 - code repository
 - documentation
- Cleaning up







- Personnel
- Expertise
- Time
- Need to identify SS/FC differences in stand-alone and integrated systems
- Documentation
- Testing







- Many old configuration files need cleaning up:
 - alarm handlers
 - archiver
- Chris Heidt is on board







- Much progress since CM37
- Restructuring in progress
- Will soon have 4 Superconducting solenoids
- Needs to be finished within 10 months!