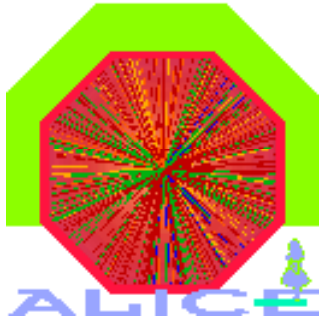


# DCS status for December run

André Augustinus  
12 October 2007



# Detector DCS usage

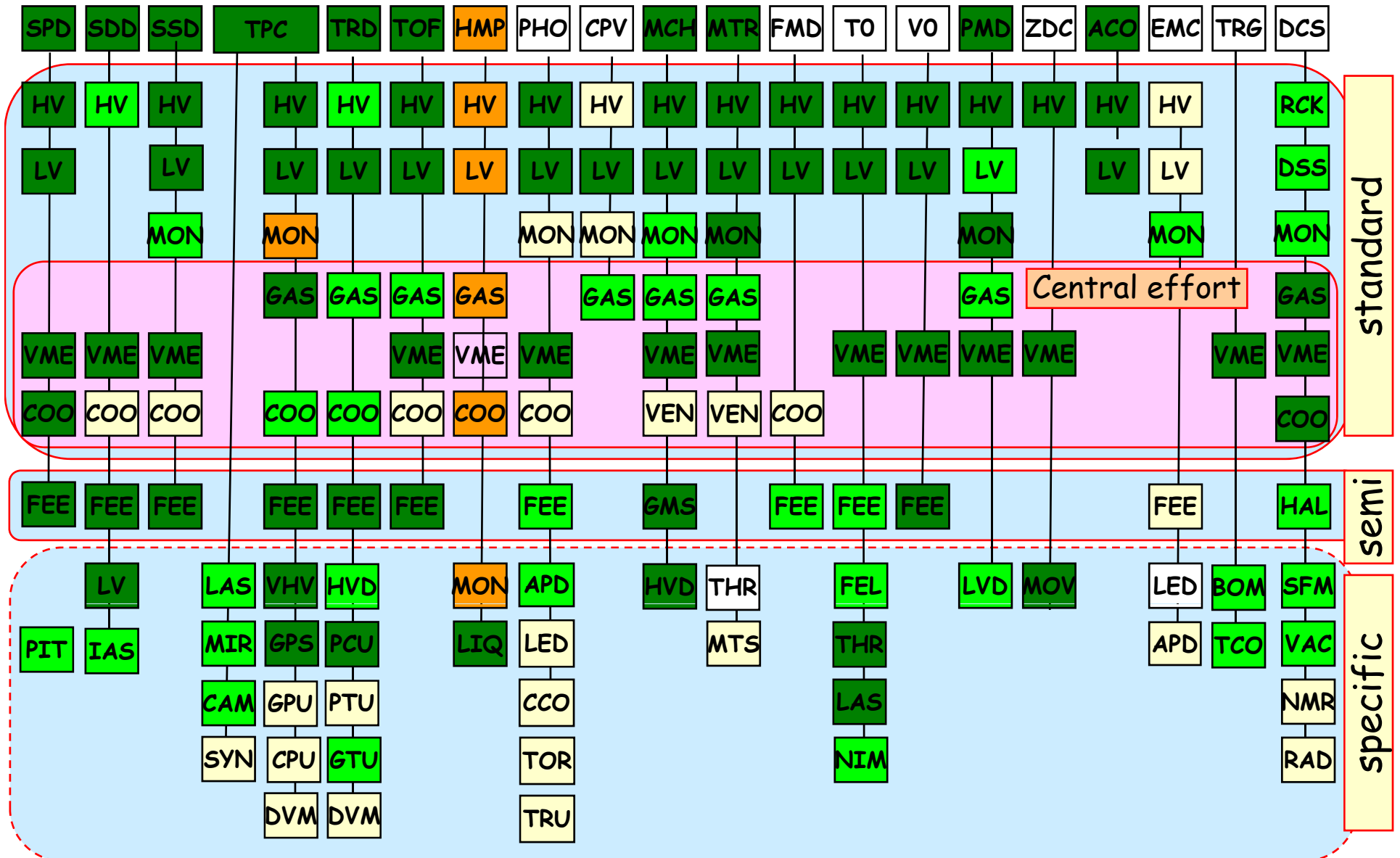
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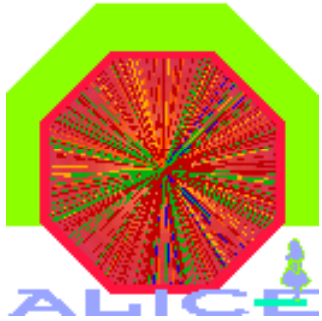
- All detectors use DCS in a multitude of environments
  - Outside labs, during construction and assembly
  - CERN during assembly and 'surface' tests
  - Testbeams
  - During installation and commissioning at P2
- Main emphasis on control of equipment
  - Control of power supplies
  - Configuration/control of FE electronics

# Detector Status

## September 07

- 1 H/W & low level S/W done
- 2 Basic control with PVSS
- 3 FSM implemented
- 4 Configured and ready for operation

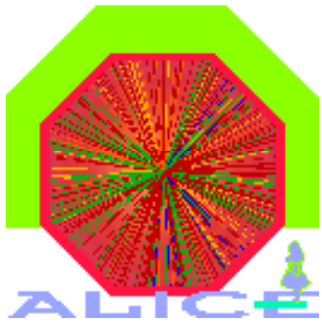




# Detector DCS archiving

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- Key issue for offline: archiving
  - and subsequent transfer to OCDB
- Archiving had low priority for detectors
  - Except maybe for testbeams, then mainly archiving to local file archives
  - Otherwise punctual for 'learning' and debugging
  - Since early this year a major effort to push detectors to start archiving

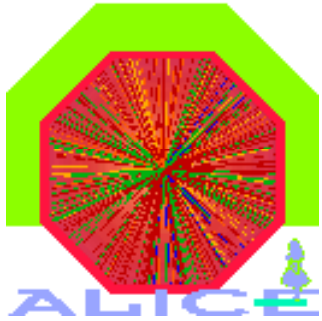


## Detector DCS at P2

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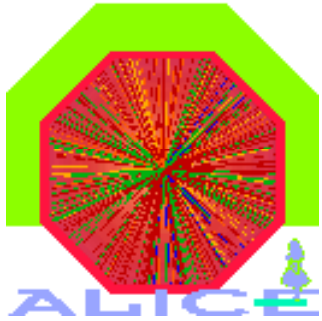
- Detector DCS is essential for commissioning at P2
  - But, again, concentrating on controls
- Setup, tuning and use of archiving is part of the commissioning procedure of the detectors at point 2
  - Therefore following the installation of detectors
- Various detectors have started to archive at P2
  - TPC, TOF, HMPID, MCH, TRG





## Detector DCS at P2

- Major effort to have archiving operational for all detector elements installed and participating in the December run
  - Entire responsibility of the detector
  - DCS team provides infrastructure and will help detectors wherever possible
  - Note that only parameters (datapoints) corresponding to installed equipment will be archived
    - e.g. only few TOF, TRD modules
- Database infrastructure available at Meyrin for 'surface' tests or test beams
  - Little or no request so far



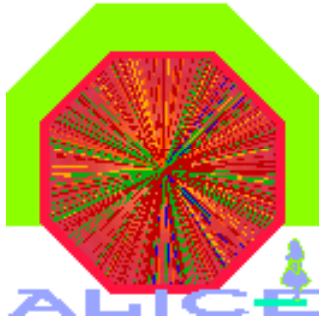
# Central DCS status

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[details in talk Svetozar, this morning]

- Provide infrastructure for the detectors
  - Computers, network, databases
  - In use by some detectors since 1 year
- Provide transfer from DCS archive to OCDB:
  - AMANDA, FXS
- Infrastructure operational since >1 year
  - Activity gearing up, but use of archive DB only starting
- Installation of Oracle RAC foreseen before end of year
  - Not essential for December run, current DB infrastructure is sufficient

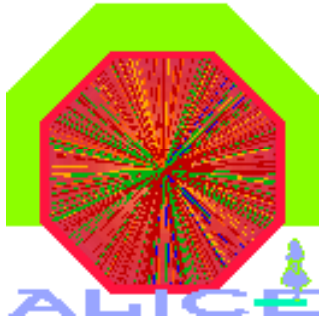




# Central DCS archiving

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- Responsible for ‘environment and infrastructure’ monitoring
  - Temperatures, humidity, atmospheric pressure, B-field
  - (Technical) infrastructure parameters and status
  - Whatever is installed is archived
- For December run expect to archive
  - Ambient temperature, atmospheric pressure, B-field (Hall)



# Summary

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- Infrastructure for archiving (and transfer to OCDB, AMANDA) is installed and operational for December run at P2
- Actual archival of DCS parameters by detectors requires effort from detector groups
  - DCS team will provide pressure and support
- ‘Environment’ parameters will be archived
- At P2 only archiving of parameters of installed equipment will be archived

