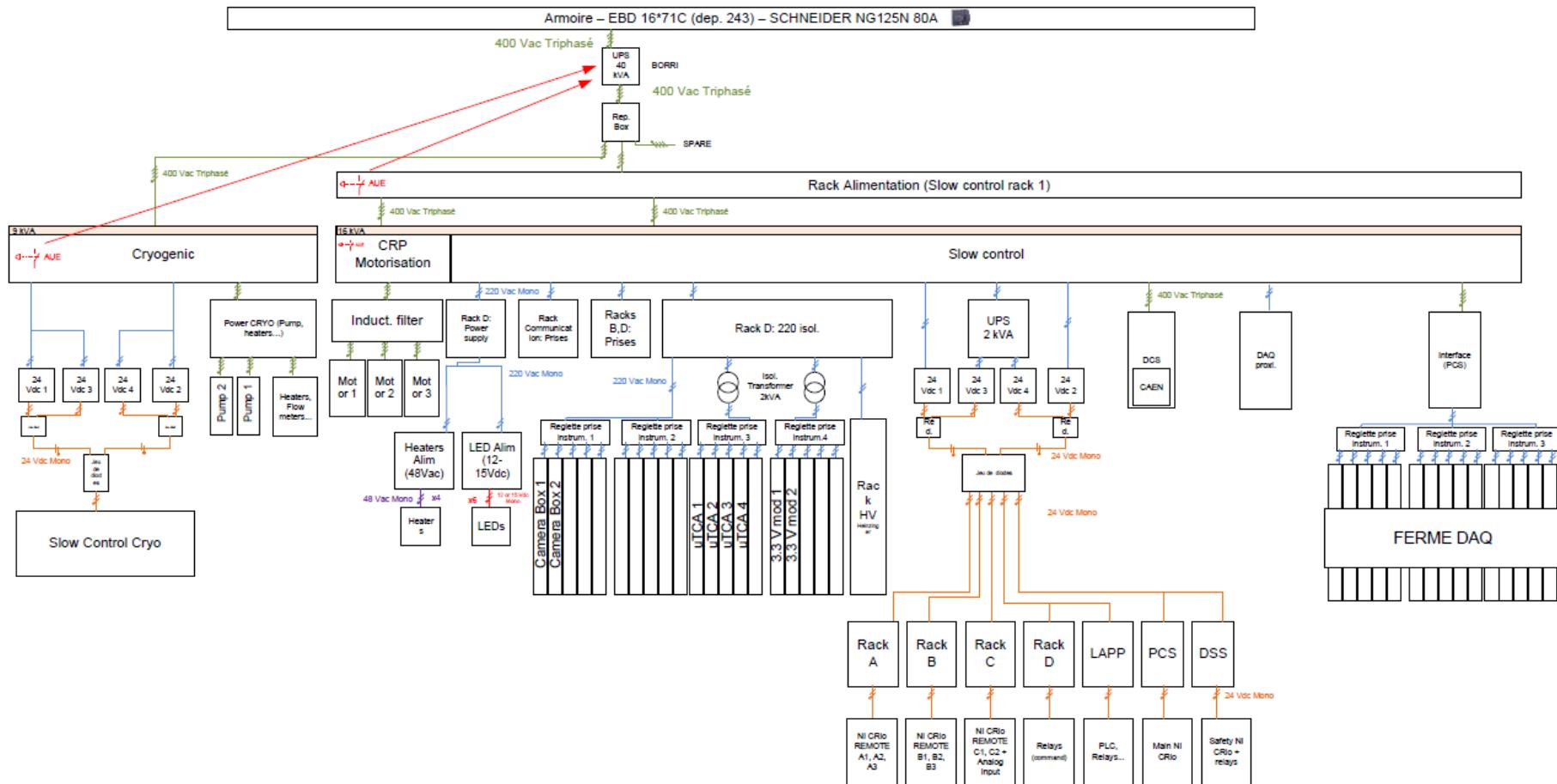


Status & Plans for WA105 Control/Safety System

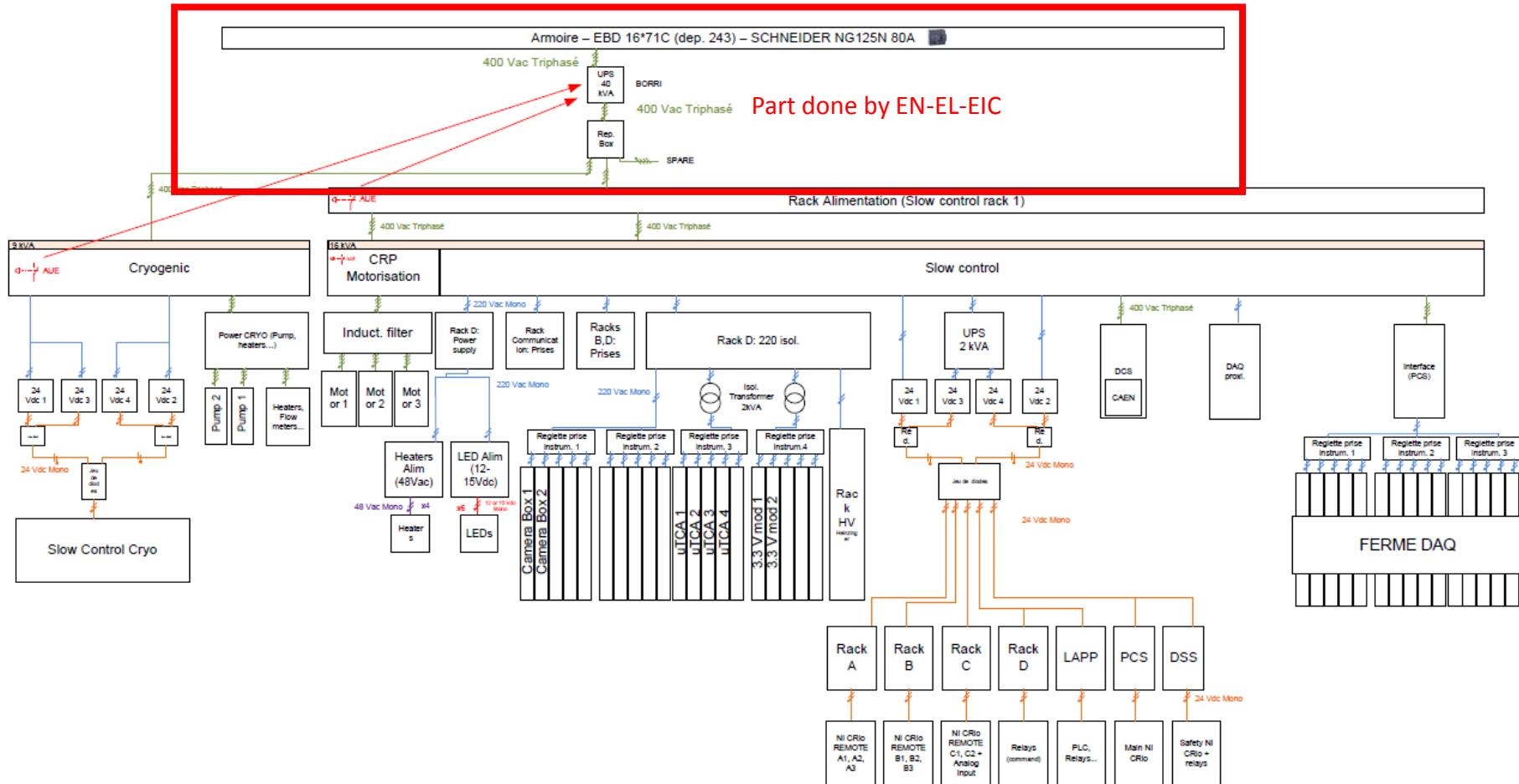
Thierry VIANT
Yann-Axel RIGAUT

ETH Zürich
ETH Zürich /CERN, EP/DT-DI

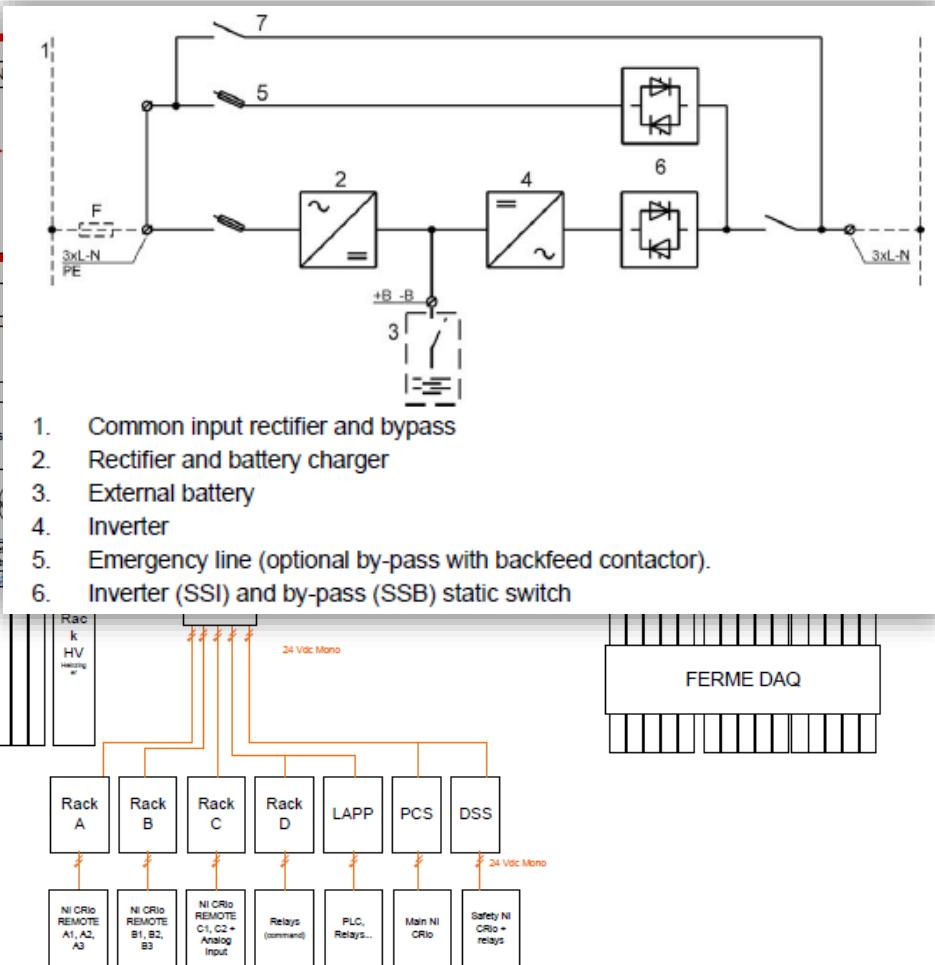
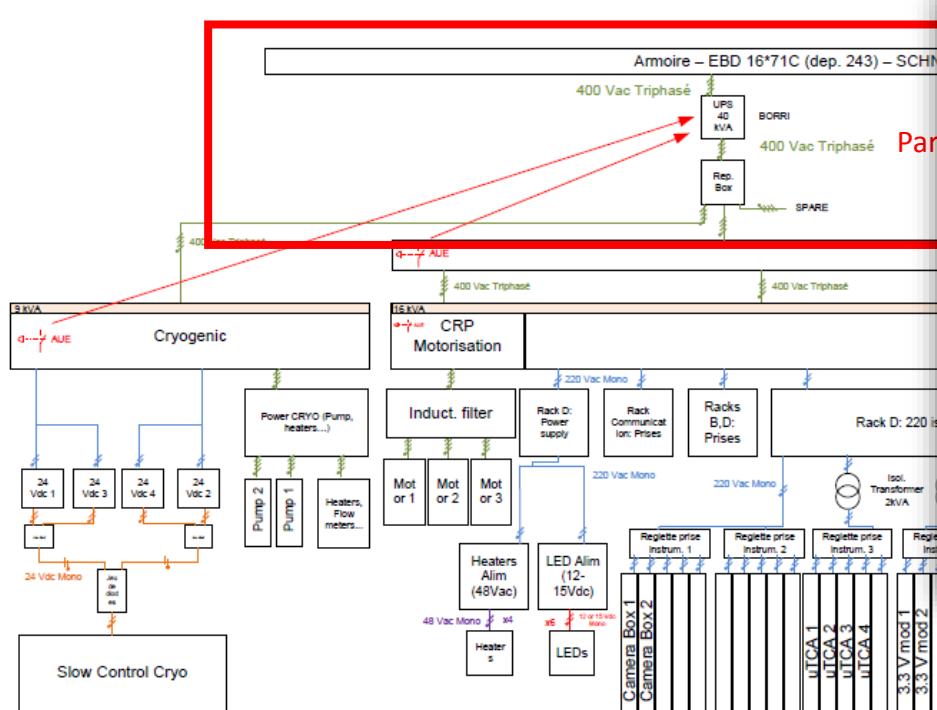
Electrical distribution (Simple version)



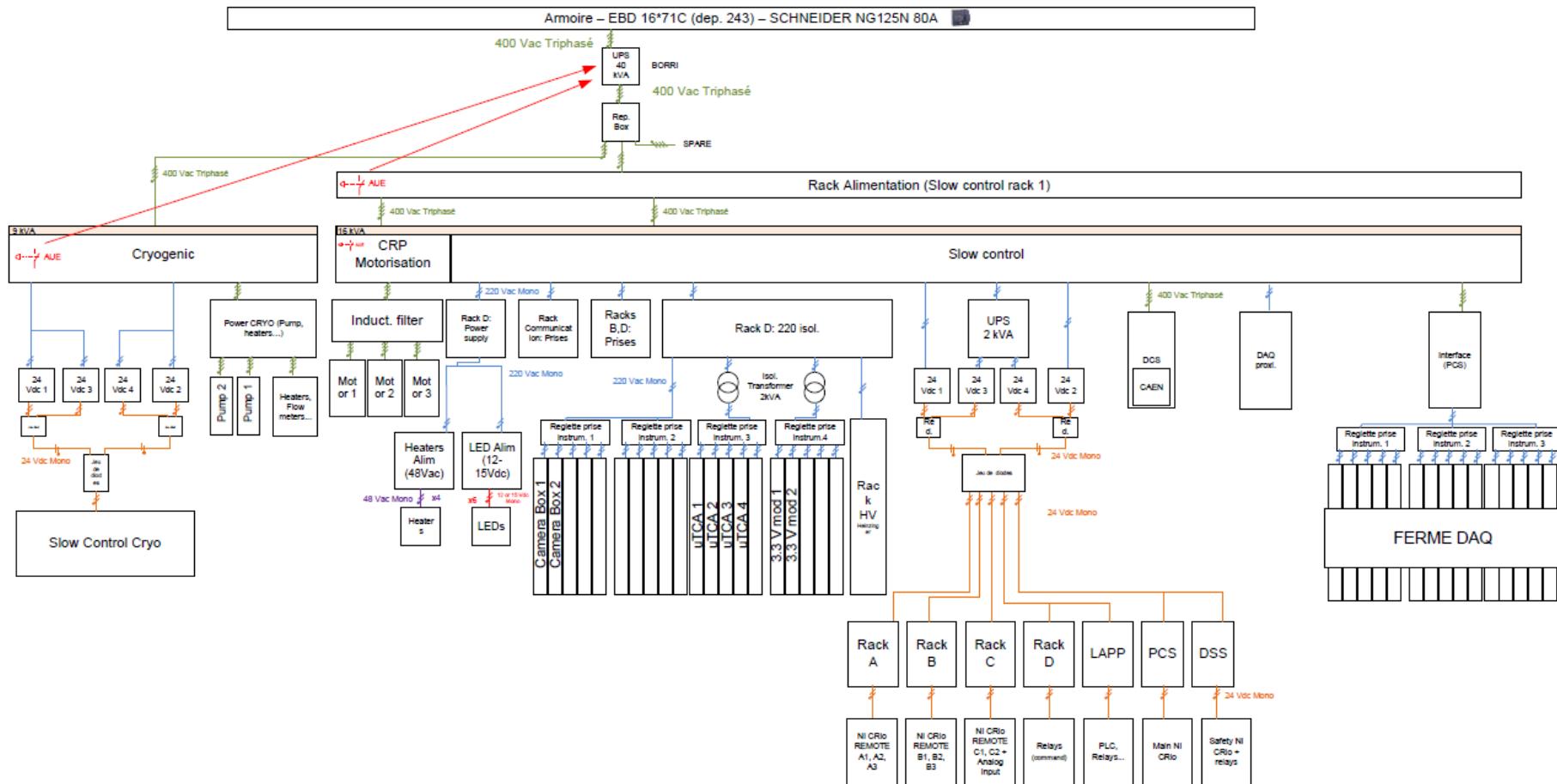
Electrical distribution (Simple version)



Electrical distribution (Simple version)

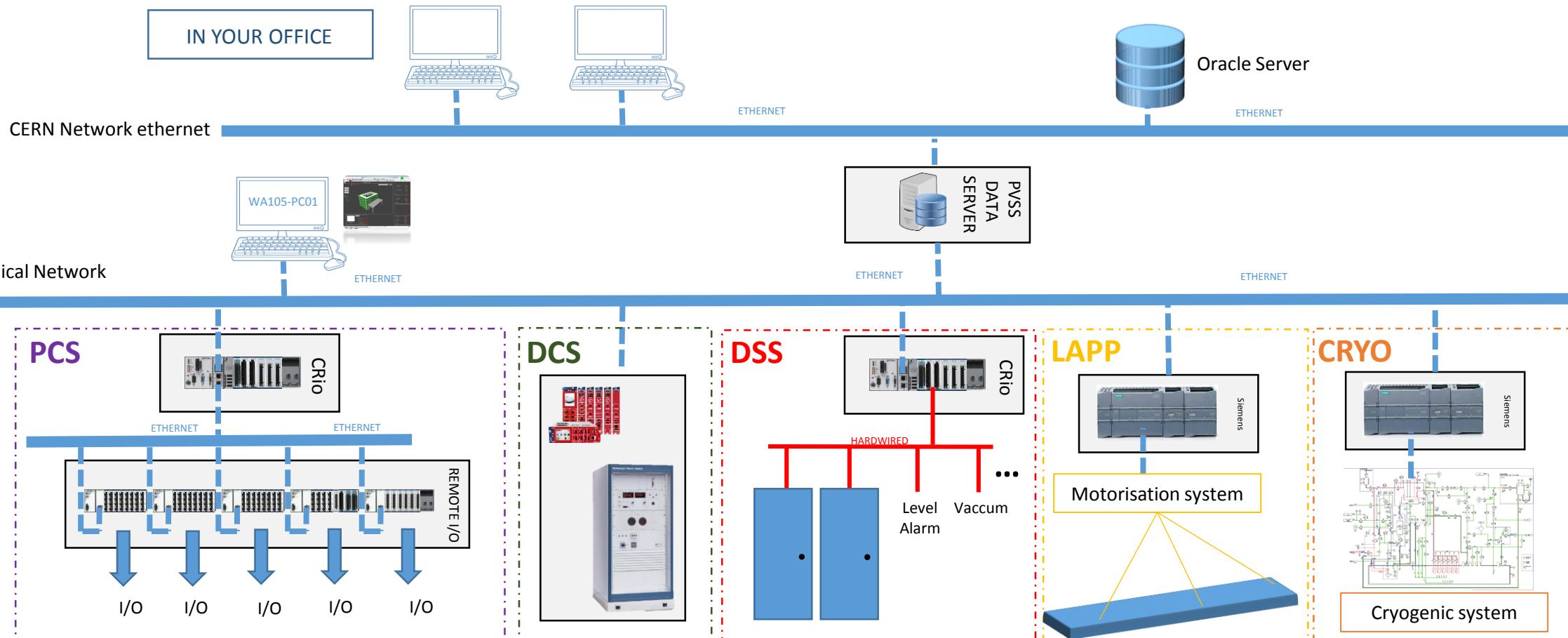


Electrical distribution (Simple version)





Global system simplified

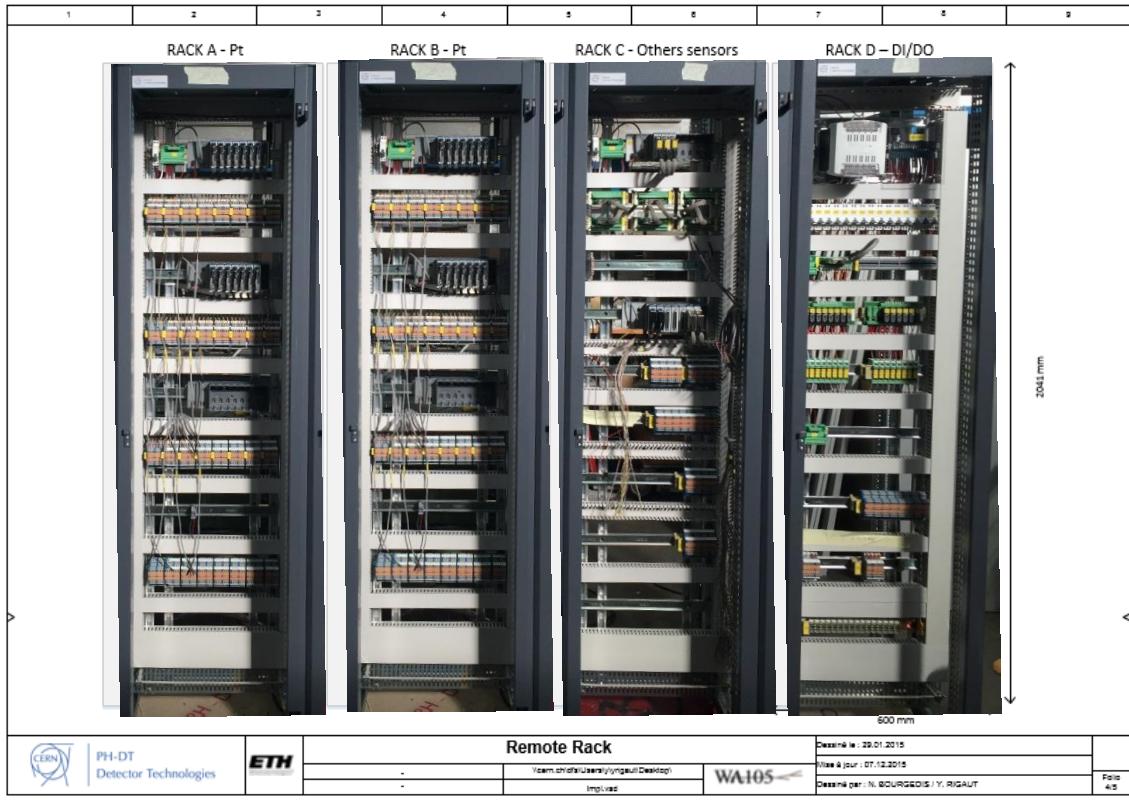


Temporary Assembly Structure

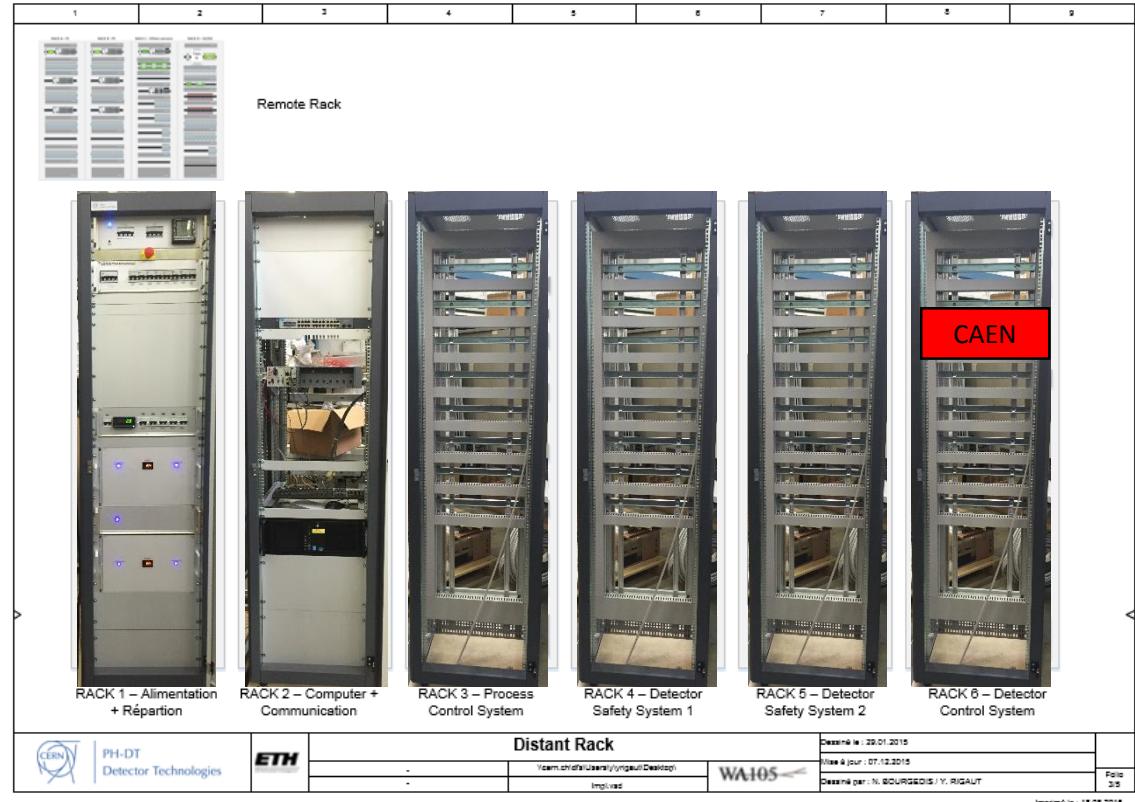


We brought 4 new racks in the building 182 near the TAS (Temporary Assembly Structure).

Racks construction

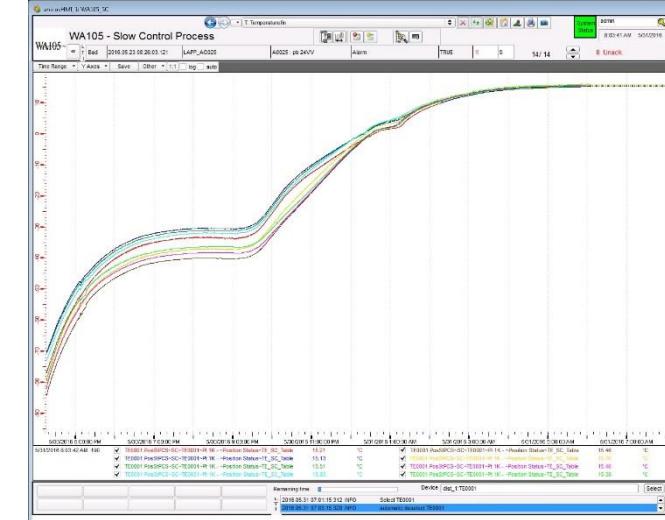


Remote Racks



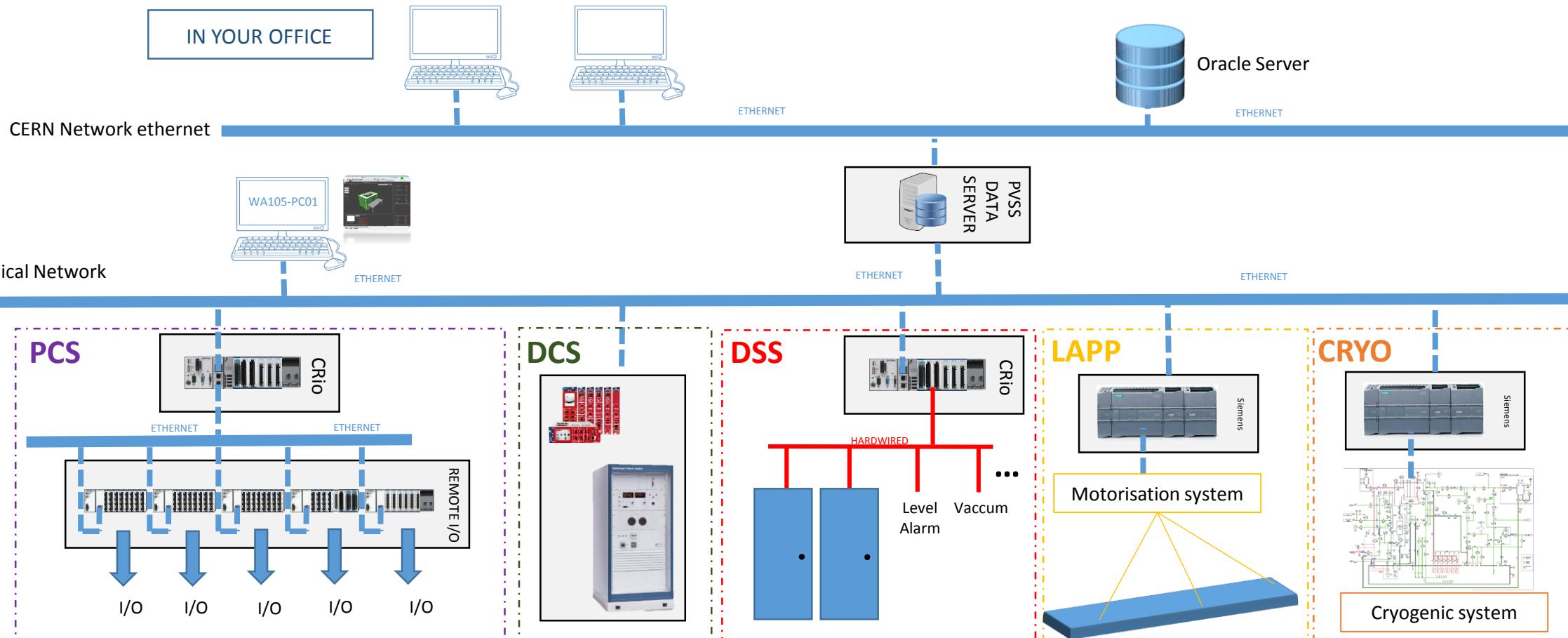
Distant Racks

First tries of the complete chain



We have, with Cosimo, begin the first tries of the complete chain of acquisition (from the sensor to the supervision) to see if 96 Pts was correctly connected.

Global system simplified

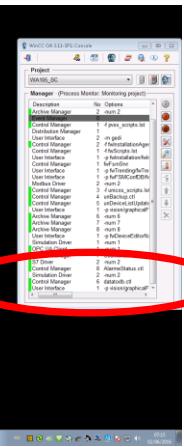
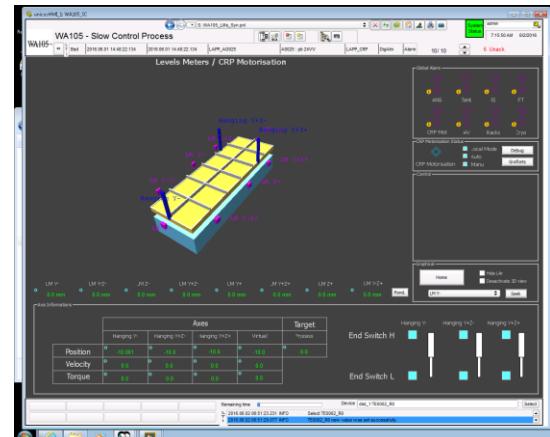


Slow control data -> PVSS



- 6 temperature sensors has been immerge inside the liquid Ar
- Sensors was connected to the PLC and temperature value recorded
- PVSS process sent parameters values to the mysql database

Slow control data -> database / WA105website / first record



PVSS process reading slow control parameters (for this test : only Temperature 0–6) and sending data packet to the mysql database (linux computer) by network.

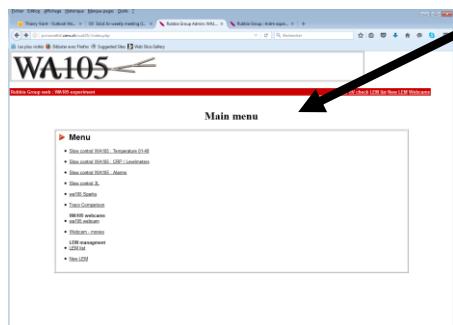
Linux computer not reachable: data recorded in local text file

Resolution : 5sec recording (only if value modification)

each 10 min : all datas are recorded

Recorded on pcnometh2 :

- 2 x 1TB configured in raid 1
- Daily backup on CERN server
- Mysql database

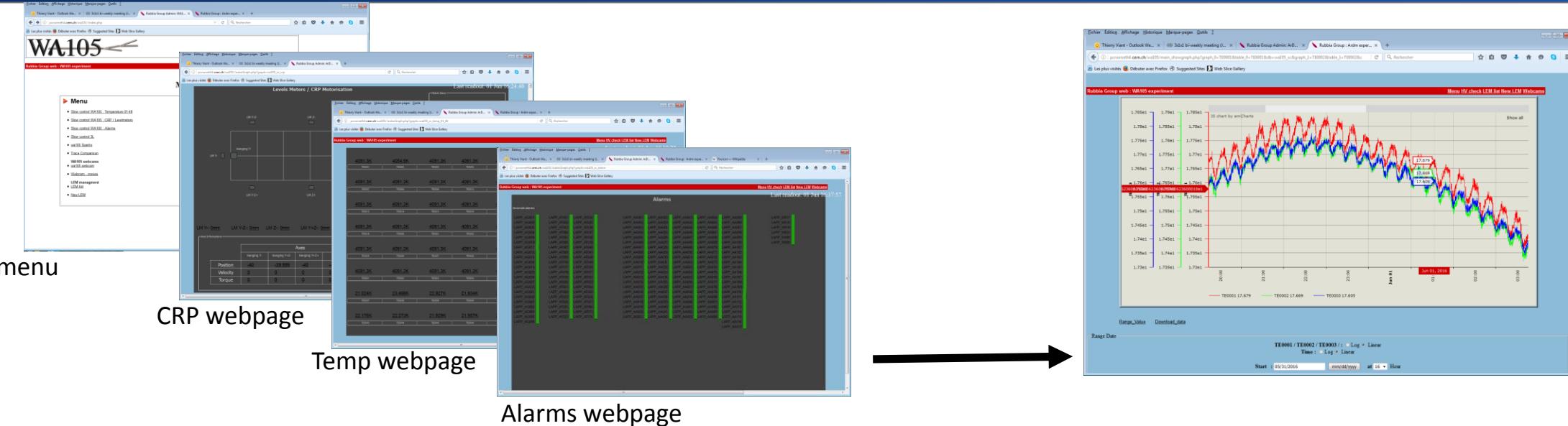


Website (see next slide) : pcnometh4.cern.ch/wa105

Wa105 Website interface



Slow control WA105website / first record



url : pcnometh4.cern.ch/wa105

Login : wa105

Password : Wa105123

By clicking on the last value :

- New webpage for this parameter
- the historics of this value
- zoomable
- Download values /timestamp
- parameters comparaison



Thanks for your attention.



Slow Control System

