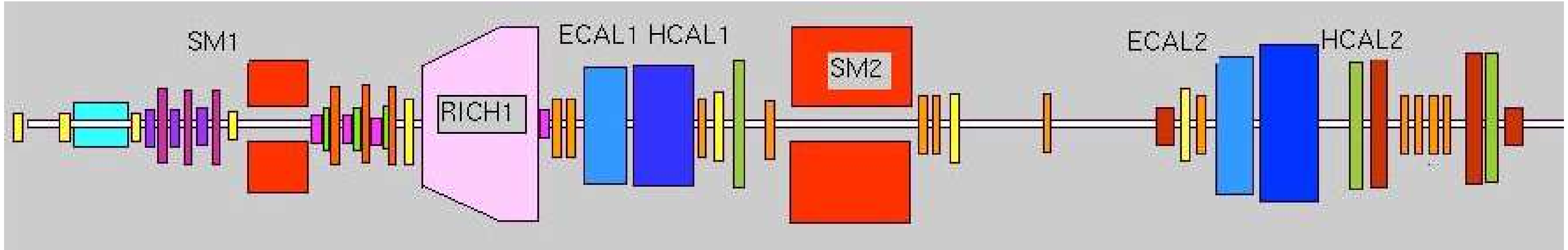
DCS foreseen tasks before 2003 run

C. Quintans, V. Falaleev



- Migration of OS
- Reliability Program
- Software upgrades
- Hardware upgrades and spares
- Archiving
- Security and Protections
- Debugging of PVSS
- New developments
- Documentation and Training

Migration of Operating Systems

DCS has 2 main computers:

pccompass04 running Linux and

pccompass03 running Windows.

Both are on old OS versions, not supported by IT.

$\hookrightarrow$ pccompass04: Migrate from RedHat 6.1 to 7.2

$\hookrightarrow$ pccompass03: Migrate from WindowsNT to Windows2000

Two computers used as spares:

- pccompass07 mirroring pccompass04
- na58pc014 mirroring pccompass03

Reliability Program

How the system can survive "disasters" as:

- Computer crashes
- Power cuts
- Historical archive or programs corruption

$\hookrightarrow$ See next talk by V. Falaleev

Software upgrades

- DCS program PVSS has to be upgraded from version **2.11.1** to **2.12**
  - ↪ Some bugs corrected
  - ↪ Tools are more user friendly
  - ↪ New trending tools
- Upgrade of the "intermediate layer" of the DCS system - JCOP Framework to version **1.2**
- Upgrade of the DIM Name Server

⟹ Test upgraded DCS in “Data Acquisition” mode

Hardware upgrades and spares

- Replace APPLICOM card by a new one (problems may arise when using the old with Win2000)
- Test control for Wiener fan trays (study for future implementation)
- Test OPC server for CAEN SY527 modules (study for future implementation)
- Test OPC server for ISEG Power Supplies (study for future implementation)
- Identify critical hardware and obtain spares

Archiving

Decide on strategy for archiving of DCS data:

- What to do with old data
- Where to store archives
- Procedure for 2003 RUN

$\hookrightarrow$ See next talk by V. Falaleev

Security/Protections

- Different logins in PVSS:
  - ↪ DCS engineer
  - ↪ Detectors engineer
  - ↪ operator
  - ↪ observer
- Create action log file identifying **login name**, **time of action** and **kind of action**
- Create script procedure to kill user interfaces

Debugging PVSS project

Several problems were detected during last running period.

These have to be analised and solved before next run

- Wrong current units reading
- BMS crates On/Off message problems
- SLiC optimisation: try to accelerate survey times
- Cleaning of the hierarchy tree

New developments

- Develop a "user friendly" User Interface
  - ↪ Simplifying panels
  - ↪ Detector oriented instead of hardware oriented design
  - ↪ Providing scripts to easily extract data from the system
- Integrate remaining detectors on the system - at least alarms
  - ↪ HCAL1, HCAL2, ECAL1, MW1, W45, Drift Chambers, Micromegas
- Include additional monitorings for integrated detectors
  - ↪ New ELMB for target temperature measurements
  - ↪ Monitoring of several parameters for new silicon stations
  - ↪ New PLC for gas monitoring of MW1, MW2, DC, Micromegas and W45

Documentation and Training

- Write a DCS operators manual
- Document I. Manouilov developments
- Operators crew training