

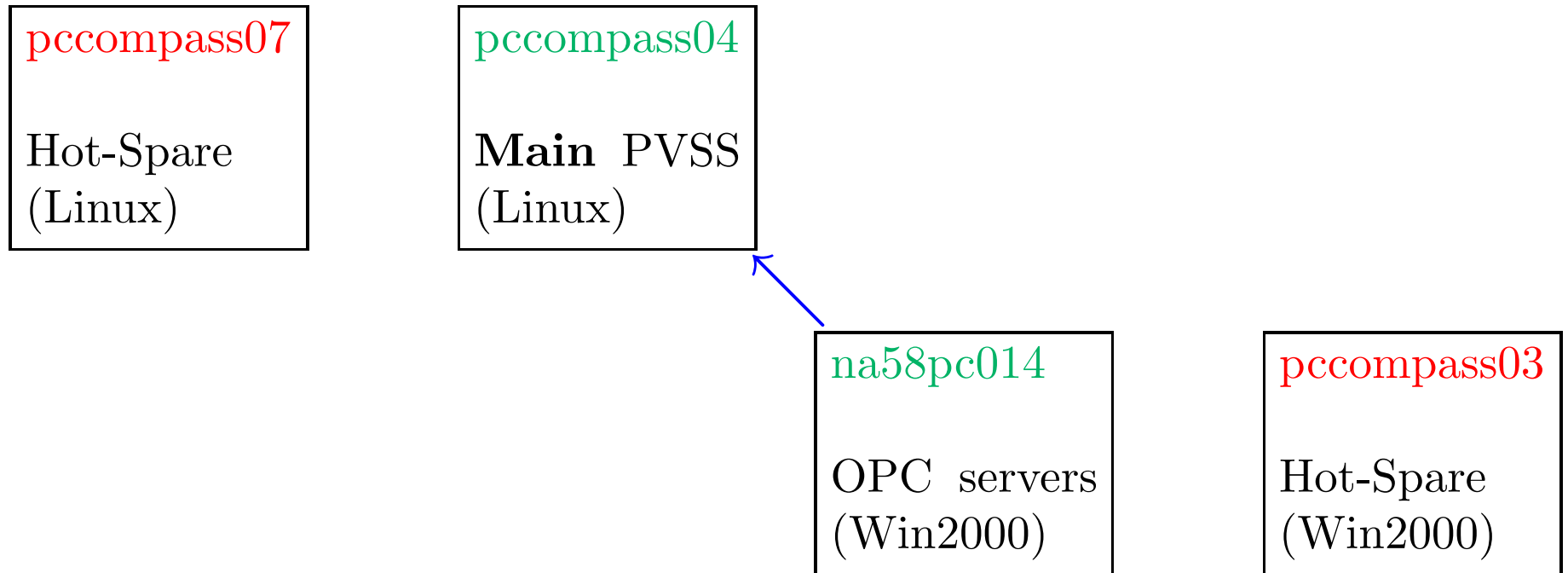
DCS report April to June

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COMPASS Meeting, 4 July 2003

Outlook

- DCS computers
- New implementations
- Known problems
- To be done



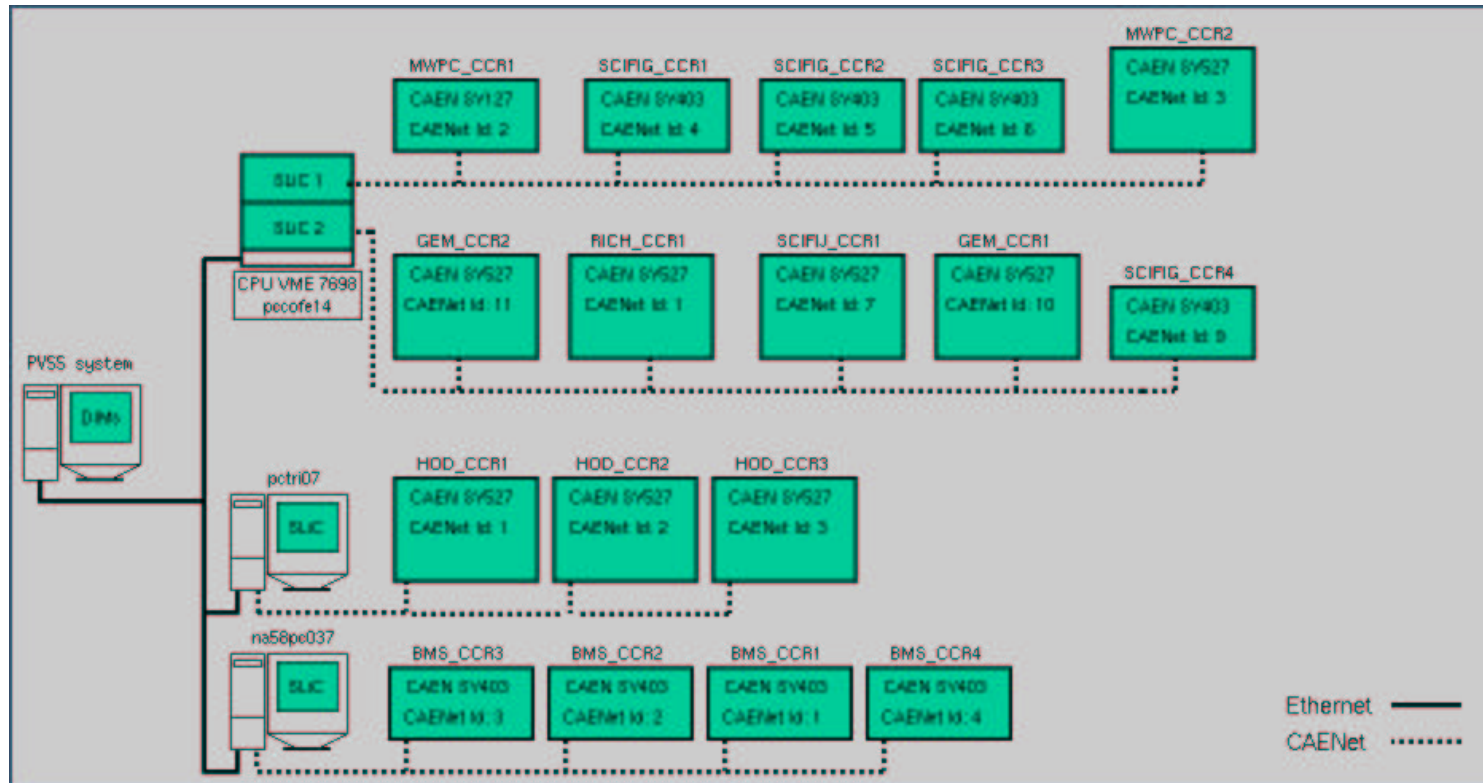
Both **na58pc014** and **pccompass03** “died” in the past 2 months
↪ are now replaced:

- one existing pc that came back to the group
- one newly bought pc

Newly implemented

- Entrance panel to access **GEMs**
 \hookrightarrow GEMs panels should be closed after viewed!
- **PLC3: W4/5, MicroMegas and Drift Chambers** gas systems
- **Straws** HV monitoring
 \hookrightarrow Trip information is sent from stand-alone program into the PVSS alert panel
- **Polarized Target** temperature readings
- **W4/5** LV readings
- **Muon Wall 1** LV readings
- Small changes for Hodoscopes and W4/5 HV channels, control of Straws crate, noisy ELMBs,...

Readings speed: CAEN HV



- SLiC1 (pccofe14) set values: 3 min cycle; monitored values: 3 seconds cycle
- SLiC2 (pccofe14) monitored and set values: 15 seconds cycle
- SLiC (pctri07) monitored and set values: 15 seconds cycle
- SLiC (na58pc037) set values: 3 min cycle; monitored values: 5 seconds cycle

Readings speed (II)

- Fast readings can have shorter cycle if each SLiC reads less channels — more dedicated branches can be added if better performance is needed.
- With the fast SLiC, current [Imon](#) readings on spill are possible, if the power supplies are CAEN SY127, and maybe SY403. Not possible for SY527.
- Split of surveys (fast and slow) for SLiC2 on pccofe14 and SLiC on pctri07 to be done soon.

Known problems

- Jumps on some ELMB readings
 - ↪ The problem is being studied. Similar jumps on ELMB readings seen by ATLAS.
 - ↪ ELMB readings from outside temperature and SM1 magnetic field are fixed.

To be done

- Trigger: HV (Lecroy PS) monitoring — ongoing
- Silicon cold station (03): temperatures integration
- Silicon: HV (ISEG PS) integration
- Straws: temperatures for 04, 05 and 06 stations
- MM and DC: HV (display of alarms from stand-alone program into PVSS)
- Automatic procedure for the backup of the project and historical archives
- Documentation...