



PS Complex Software for 2006

PS Complex Operation Teams
&
S. Pasinelli

[PS Complex accelerators]

- Accelerators (In use)
 - Linac 2 (p+)
 - Linac 3 (ions)
 - Booster (p+)
 - PS (p+, Ions)
 - ADE (p-)
- Accelerator (In commissioning)
 - LEIR (ions)
- Accelerator (In studies)
 - CTF (e+)

[PS Complex accelerators]

- Accelerators (Future)
 - Linac 4
 - Elena
- Experimental areas
 - Isolde (HRS – GPS),
 - East Hall
 - nTof
 - ADE (ATHENA – ASACUSA - ATRAP)

[Control Software OP definition]

- Suite of coherent software, used by the operation group to control and make diagnoses on the accelerators.
- Controls and the diagnosis must be possible on all the parts of the PS Complex accelerators.
- The availability and reliability must be very high.
- All interventions, modifications and evolutions must be coherent and be planned in order to avoid the disturbance of the accelerators and physics.

[Generic Controls]

Start-up 2006

- Console manager
- Working set + knobs
- References
- Archives
- nAos
- GFA editor
- Sampler

[Generic Controls]

Start-up 2006

- PLS
- Alarms
 - Equipment
 - Setup (single / multiple)
 - Infos
 - DSC
 - Status
 - Reboot
 - infos

[Generic Application]

Start-up 2006

- ABS
- Tomoscope
- BSM
- SEM grid
- OP display
- Beam statistics
- eLogbook
- EqpSurvey

[Specifics Application]

Start-up 2006

- Labview
 - Spill analyzer
 - LHC TT2-TT10 Pick-ups
 - CCC signals
- Cycle editors
- Etc..

[To be Debugged or Developed]

- Passerelle (Server + DLL)
 - Varilog
- Refresh data
 - No synchro. received from DSC
- Timing diagnostic
 - Useful for OP & CO

[To be Debugged or Developed]

- Fly wire
 - Data transmission
 - Data treatment
- Standard CO access of vacuum data
 - Data correlation
- Labview
 - OASIS ↔ Labview

[CO Support]

- CO components
- CCC Windows & Linux consoles
- Labview
- HW infrastructure eLogbook
 - Server
 - Database
- Passerelle
 - Server
 - DLL

[To be clarified]

- CO support for CPS complex applications
- CO diagnostics tools
- Schedule for new CO tools
 - LSA
 - FESA
- PICO role in the CPS environment
- Database intervention

[Remark]

- All java applications developed in the PS framework must be compatible with the new java environment and full operational at the 2006 startup.
- PS Java applications deployed
 - PS
 - PSB
 - ISOLDE
 - ADE

[Conclusion]

For 2006 we want for all accelerators, all software with the same functionalities and reliability that we had in 2003 – 2004 Q1