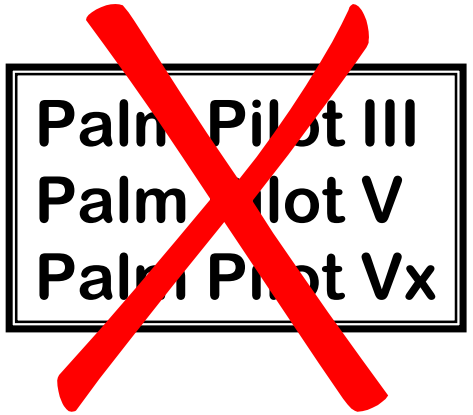
LHC-CP Controls Project Definition Workshop



Thanks !

LHC-CP Controls Project Definition Workshop

Overview of the Workshop

M.Vanden Eynden on behalf of the LHC-CP project Team

Outline

- Objectives of the Project Definition Workshop
- Your Participation
- More About Objectives
- Workshop Organization

Objectives of the Project Definition Workshop

❶ Build a solid and transparent definition of the LHC-CP project in terms of Purpose, Scope and Objectives to attain (more on this subject later)

❷ Discuss the LHC-CP project organization for aspects related to :

- ❒ Steering Committee
- ❒ Project Team
- ❒ Sub-projects
- ❒ Overall responsibilities in terms of budget and resources allocation

❸ Prepare strategy and planning (more on this subject later)

- ❒ Detailed for the next 12 months
- ❒ with a vision towards 2006

Your Participation !

- The proposals that will be made by the LHC-CP Team are extensively based on the outcome of :
  - LHC CO-OP *forum* held at CERN in Dec,1999
  - preliminary contacts with several Groups from 5 CERN Divisions
- Time is arrived to build a CERN wide ownership and commitment towards the way the LHC-CP project will work between the resource owners, the control system users and developers.
  You can use this opportunity ! How ?
- By giving active feedback on the presentations that will be made this morning
- By actively participating in the afternoon sessions
  - prepare our engineering strategy for the next 12 months
  - open session for general discussion of the project

More About Workshop Objectives :
Build a Solid and Transparent Definition

- **Purpose** of the Project
  - What is the “raison d'être” of the LHC-CP as there are already several controls entities at CERN ?
  - What benefits do we expect from this project ?
  - What criteria will be used to judge its success ?
- **Scope** of the Project
  - Which engineering domains and activities are covered by this project ?
  - What is OUT of SCOPE ?
  - Which LHC Controls activities have already started ?
  - What are the major interfaces with other CERN projects ?
  - What are the commonalties with other CERN projects ?

More About Workshop Objectives :

Build a Solid and Transparent Definition

- Objectives of the Project
  - What has to be delivered by this project ?
    - Several deliverables can be considered : fully operational control room software, specifications for Industry, etc.
  - And for when ?
    - Having only year 2006 in mind as a milestone is not enough !
    - We need also to look at intermediate results to attain in 2003, … in the light of the control facilities that will be required for :
      - The control of the TI2/8 Transfer Lines
      - the LHC sector Test in 2004
      - the initial LHC commissioning
    - We have to identify critical parts and the risks associated with it

☛ This workshop is an opportunity to bring these important questions to the surface

More About Workshop Objectives :
Prepare Strategy and Planning

- **Strategy for the next 12 months (1/2)**
  - At least 3 subjects identified during the LHC CO-OP forum and during our meetings with the CERN groups as core control system functionality with high priority :
    - Real Time Control
    - Middleware and data exchange
    - Integration of Industrial Components
  - ☛ Need to define an engineering strategy for these 3 subjects by :
    - looking at the present situation
    - build CERN wide commitment about the objectives (milestones) to be attained in these 3 domains (WHAT and not HOW !)
    - outline important technical and managerial decisions to be made in time

↘ **The outcome of this work will serve to decide, soon, which engineering LHC-CP sub-projects have to be put in place with appropriate budget and resources**

More About Workshop Objectives :
Prepare Strategy and Planning

- **Strategy for the next 12 months (2/2)**
  - Several other domains of activity :
    - "Use Case" Approach will be used to a larger extend for understanding the high level LHC operational scenarios and their implications on the control system
    - Efforts will be invested to produce a CERN wide specification for the integration of Distributed Control Systems (DCS)
      - Network and Transport Protocols
      - Network management aspects
      - high level software interfaces and models
      - Compliance to standards
      - Alarms transport and management
      - etc.
    - Launching of appropriate sub-projects
    - Milestones planning and tracking

Workshop Organization

❒ April 13th - MORNING 09:00

- Plenary session *(Chair B.Frammery)* :
  - Introduction to the LHC-CP (Definition and Organization) *(R.J. Lauckner)*
  - LHC Controls activities today and Outcome for LHC-CP *(M.Lamont, M.Vanden Eynden)*
  - Preparation of working sessions *(R.J. Lauckner)*

❒ April 13th - AFTERNOON

- 13:30 - 16:30
  - 3 Parallel working sessions with stakeholders only :
    - RT Controls *(Chair A.Burns)*
    - Middleware *(Chair V.Baggiolini)*
    - Integration of industrial components *(Chair E.Carlier)*
- 14:00 - 16:00
  - Plenary session *(Chair S.Myers)* Focussed on :
    - Structured discussion and feedback with the project team about any Project wide issue (organization, purpose, scope, medium and long term objectives and planning, etc.)

☛ Please fill and return your form at the end of this morning session

Workshop Organization

- **April 14th - MORNING 09:00**
  - 1 Plenary session *(Chair R.Bailey)* :
    - Outcome of the "RT Controls" working session *(A.Burns)*
    - Outcome of the "Middleware" working session *(V.Baggiolini)*
    - Outcome of the "Integration of industrial components" working session *(E.Carlier)*
    - Summary of Issues raised during the plenary sessions *(M.Lamont, M.Vanden Eynden)*
    - Conclusion *(R.Lauckner)*

~~About 30%~~ 100% of Controls Projects Failures are due to Poor Communication

Have a good workshop !