Working Sessions

Chairs:

Vito Baggiolini

Alan Burns

Etienne Carlier

Steve Myers

Working Sessions

In our discussions with the groups we recognized certain topics which are high priority and where the LHC-CP should be active.

The working sessions are intended to:

u   Use these examples to clarify how the LHC-CP will function

u   Help establish the direction of our activities in the coming year and beyond

u   Clarify scope, objectives and strategic milestones in these areas

and not to:

u   Stimulate technical debate (The What and not the How)

Preliminary Model Architecture

At the Forum there was discussion about the LHC Control System Architecture and impatience for it to be announced! For this workshop I have sketched the major components that are being discussed.

The sketch is intended to:

u   Convey my naïve understanding of these components

u   Advance ideas

u   Invite (constructive) criticism

It is preliminary

Preliminary Model Architecture.

13 April, 2000
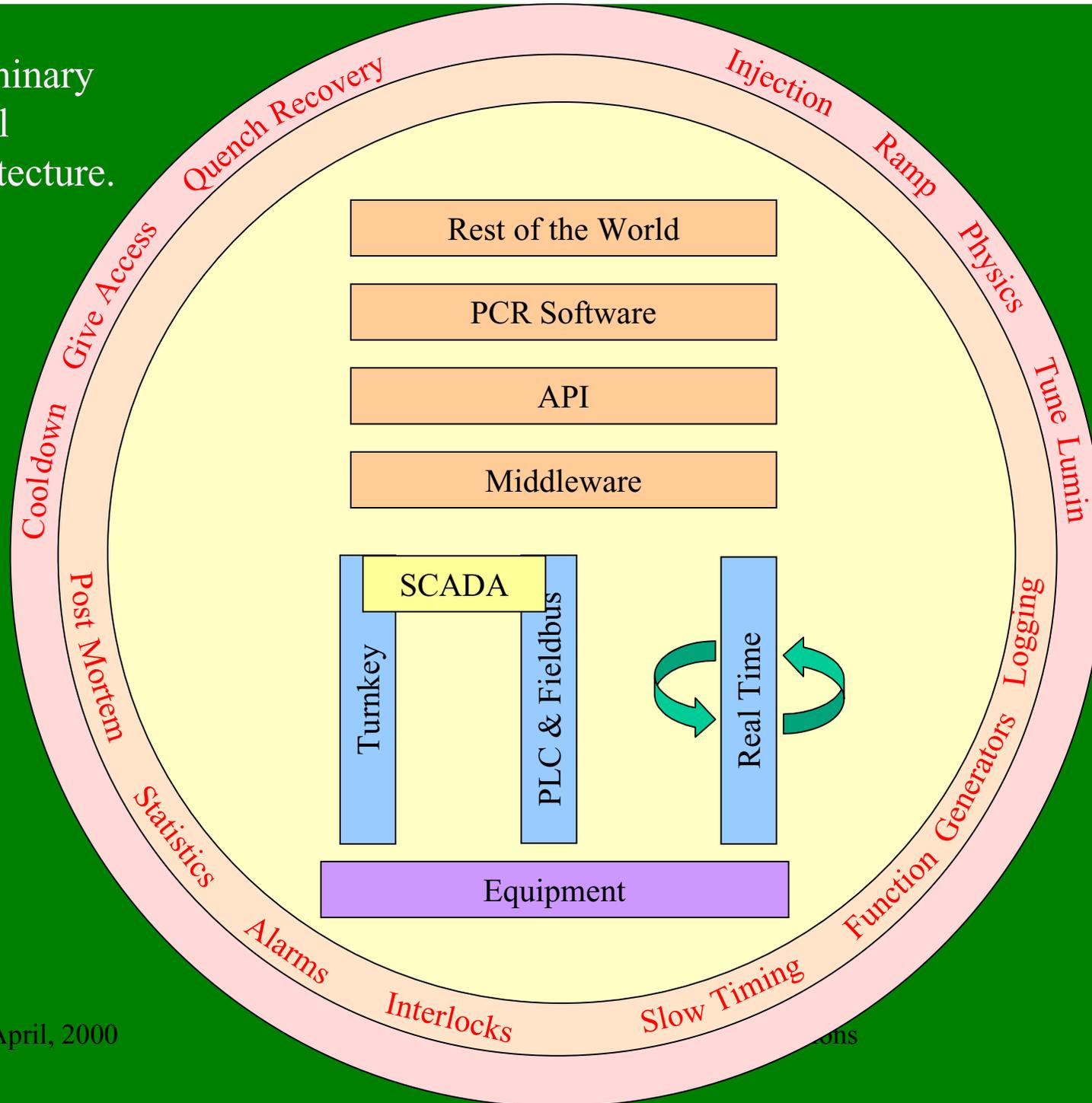
Working Sessions

1 Systems Built from Industrial Components

2 Middleware

3 RT Controls

4 General Issues

Each Chairman has been asked to:

- **Identify Areas for Decision**
- **Define Objectives for this Year**

Industrial Components

Groups will purchase industrial components PLCs, Fieldbus, SCADA and configure them to build their control systems.

What are the applications and their milestones†?

What is required to integrate these systems to the general control system?

Are the services set up by the Controls Board sufficient - advice, purchasing, training?

What are the common components? How should support be organized - centrally or by the equipment teams?

Participants

SL-BT	E. Carlier (chair)	LHC-VAC	R. Gavaggio
LHC-ICP	F. Rodriguez Mateos	LHC-IAS	J. Brahy
SL-LRF	R. Brun	SL-CO	P. Charrue
PS-CO	B. Frammery		

†Milestone is a deliverable and a date

Middleware

Middleware is the Software Bus for distributed applications.

Middleware activities are present in ST TIM Project, SL/PS Convergence Project, the LDIWG and LHC-IAS SCADA and Supervision work.

What are the goals and milestones[†] of these activities?

How can the Middleware give us seamless data exchange?

Do these approaches need rationalizing to produce the best results and use of resources?

Participants

ST-MO	U. Epting	SL-CO	K. Kostro
PS-CO	A. Risso	SL-CO	V. Baggiolini (chair)
LHC-IAS	C-H. Sicard	IT-CO	D. Myers
SL/LRF	L. Arnaudon	LHC/VAC	I. Laugier
SL/BI	J-J Gras	SL/CO	F. Calderini

[†] Milestone is a deliverable + a date

RT Controls

What steps are needed to:

Fix the requirements and the milestones[†]?

Produce the design?

Validate the design?

Participants

SL-PO	Q. King	SL-CO	P. Ribeiro
SL-BI	A. Burns (chair)	SL-LRF	A. Butterworth
LHC-MTA	L. Bottura	SL-CO	M. Jonker
SL-AP	O. Bruning	SL-BI	J-J Gras

[†] Milestone is a deliverable + a date

General Issues

The ad hoc working sessions are devoted to engineering activities. Other topics that you may wish to discuss after lunch might include:

- What are the interfaces to other projects?
- What can be learned from our successes?
- Managing Risks
- Preparing the Sector Test
- Should interlocks be part of the Control System?
- What does the LHC-CP want from me?
- What do I want from the LHC-CP?
- …?