

Collimator Control Status:

Software (1/2)

Fesa Servers: 'merging' of two Fesa servers is now a fact.

Alessandro's team will implement the required synchronisation mechanisms in the LHCCollimator server:

- timing
- beam parameters

By this the CSS has become 95% redundant and the LHCCollimator Fesa server has become de facto the CSS.

Many advantages:

- Less software components in the system
- Less resource demanding in the PC gateways
- Faster response time
- Less experts involved

Many thanks Alessandro!!

Software (2/2)

Beam based alignment

- is not covered by the LHCCollimator server.
- However, this will be developed and implemented as an independent process
 - The CollimatorOptimiser will use Fesa properties to prepare the collimator with a position tune command.
 - From that moment on it will directly interact with the timing electronics to drive successive steps of the collimators.

Review of the final properties and the behaviour (state) model of the LHCCollimator Fesa server (Stefano, Alessandro, Michel).

Installation

Pc Gateways:

	PIX	prévu	Dec 2007	Jan 2008	April 2008	
SPS BA5	1	1	1	1	1*)	1
252 Lab	1	1	1	1	1	1
LHC1	4	1	1		1	1
LHC2	7	1	1	1	1	1
LHC3	7	2	1	1	1	2
LHC4	-	-				
LHC5	4	1	1	1	1	1
LHC6	1	1			*)	1
LHC7	23	2			*)	2
LHC8	6	1			1	1
TI2 1	1			*)	1	
TI8 1	1	1	1	1*)	1	
TOTEM			1		?	1
ATLAS			1		?	1

*) There is no Ethernet in LHC7 yet (foreseen mid February). However, since we can not use the synchronisation anyway, we may install the LHC7 pc gateway anywhere for the time being.

Proposal: (Before April 2008) One PCGateway for LHC7 (CFC-SR7-TCCS7B1 but physically installed elsewhere), one pcgateway (CFC-SR6-TCCS6) for LHC6, TI2, TI8.

All collimators can be tested, however not yet with hardware synchronisation signal.

Installation

Infrastructure

- Remote reset : all installed
- Synchro modules: All installed, (optical transformers to be modified will be installed with fibers).
- Synchro fibers: Installation in progress, first delivery in two weeks (point 3 & 7).
Full system: First week of March.

PLC's

- Cabling of PLC delayed (person working on this broken his arm recently). Final delivery date (end of February) to be reconfirmed but no major problems foreseen.