

Collimator controls status:

Pxi

- Installation almost completed.
- Tests foreseen in January.

PC gateways

- Waiting for additional pc gateways. In the cost for completion 14 were specified however only 7 were ordered. (Discovered when making the installation request). (Additional gateways for TI's, extra for 3 and 7, test lab, sps were not included in the initial order).
- Additional PC gateways cannot be ordered before end of market survey (13 December presented at finance committee) selection of company middle of February.
- 3 installed SPS, 252, TI8
- 2 being to be installed (soon point 2 and 3) end of this week. (Competing with BIC installation, to be sorted out with M Vanden Eynden).
- Point 7: waiting for Ethernet sockets installation (January).

Proposal

- Recuperate pc-gateay from SPS, TI8 (leave the one in 252)
- Install a gateway in all points except in LHC 8
- Control point 8 and TI's from remote PC gateway in 252.
- or: Possible short term solution (e.g. loan of LHC spares) with Marc Vanden Eynden. LHC8, TI's

Note: The names of PC-gateway (for generation of software) are available.

Synch signal hardware

- Optical receivers installed upstairs and downstairs
- Special signal conversion modules waiting with Christine Gayraud (864/1-B21)
(Installation to be defined)

Fibre system

- Layout fully defined, components ordered and received (patch cables, optical splitters)
- Wrong optical splitters were delivered and had to be returned to factory (correct modules arrived last Friday)
- Patch cables installed
- Ordered patch cables do not match the (non standard) optical connectors of the optical receiver modules. IT will replace the connectors on the receiver modules.
- Local connections and system test: 15 January – 28 February

PLC Temperature readout

- Cabling of the racks is in progress. Point 2, 8 and 7 are done. (6 racks to be finished)
- Detailed list of collimator names and correspondence of between the left/right/up/down and the a,b,c,d notation to be extracted from DB for an automatic software generation of the PLC systems.

Software:

Integration tests of high level applications with LSA trims management in progress.

Next steps

- Test of collimation operation with sequencers
- Function driven movements
- Limit Function

Analysis of CSS and Low Level Fesa server.

- Proposal to directly use the low level fesa server by high level applications to be investigated.
- Review of properties.
- Michel will provide the help to extract the property and associated code to control the synchronisation and to propose a model to realize the Fast Beam Based optimisation connection.

Cocost meetings

It has been difficult to get regular Cocost meetings to discuss outstanding issues. For this purpose it was decided to discuss some of these points within the context of the collimation working group meetings:

Regular reporting on

- Hw Installation Status (PXI, Gateways, Synch signals, PLC's)
- Development status of Controls Software

Discussions off

(Some of those will also require preliminary technical discussions)

- Machine protection issues
- Results and observations from collimation MD's (i.e. performance, observation of noise...)
- Functional specification documents
- Controls integration of injection and dump protection elements. (How this is done operationally)
- Totem functional requirement document

Technical Discussions (outside of working group meetings)

- Mergin of Fesa classes
- Fast Beam Based optimisation integration
- Technical realisation of the issues handled in the discussion sessions.

Example:

Controls integration of injection and dump protection elements. (How this is done technically)