

Notes from the TC Fibre meeting

25.1.2010 (CY - last revised 17.12.2009)

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1 Attendance list

DESY-IT: K.Ohrenberg, T.Witt, NN (Network group)

WP76: C.Youngman (photon: DAQ and control, beam line optics and diagnostics)

WP28: K.Rehlich (e-machine: control, timing...)

MPY: H.Schlarb (e-machine: diagnostics)

2 Aim of meeting

Produce a description of the fibre end points required by Timing, MPS and Synchronization signals.

What is not discussed in this document is the IP connectivity for photon beam line systems – here a star distribution system centred at the XHEXP1 balcony rooms is used.

3 Points agreed to

Agreed to starting point:

- A fibre cable containing 24 LWL would be laid to all end points. The total number of LWL can be changed later, but currently it assumed that all end points are connected using this cable to: Timing, MPS, synchronization and IP links plus spares and redundancy links.

Distribution points:

- For photon beam line experiment and laser hutches the cable fibres are laid to a XHEXP1 balcony room and distributed from there to the end points.
- For photon diagnostic (and optics) beam line systems and electron diagnostic beam line systems located in XTD tunnels, cables are laid to a point on the XTD side of XS1 and distributed from there to the end points.
- For electron diagnostic systems in XTL, cables are laid to a distribution point at the beginning of XTL and distributed from there to the end points.

The idea of taking all cables for XTD beam line systems to the XHEXP1 balcony room distribution point and then back into the tunnels was dropped because of the wish to minimize the delay time from MPS end point clients to the master.

4 Decisions and actions

The number and position of all end points needs to be defined in a spreadsheet with four columns:

- Name end point (e.g. rack group name) or name of device driven (not easy for photon diagnostics, but maybe for electron easier?)
- Tunnel (or shaft) name (XTL, XTD1...)
- Position in meters from start of tunnel section
- Number of LWL needed (= 24 currently)

Spreadsheets should be produced by people in charge of end points:

- Holger Scharb – his electron beam diagnostic systems
- Dirk Nolle – his BPMs (also in the Undulator regions! – Kay will inform him)
- Chris Youngman – photon beam line systems and experiment and laser hutches.
- Was there anybody else (Kay...)?

The idea is to have the end points defined by 15th Feb and distributed per email. This would allow DESY-IT to check space requirements in the XTL cable pipes, a costing to be made, etc.