

Status of ALICE DAQ Upgrade

FIT

21/03/2018



ENGINEERING
DEPARTMENT

Outline

1. *Cable path*
2. *Cable length and FIT remarks*

DAQ/Ctrl/Trg Trunk cables in the PIT:

O-side path (70x144+7x48):

ITS-I (4x144), ITS-O (4x144)

TPC (52x144)-TOF (3x48) C-side

MFT (4x144) Absorber

TOF-A (2x48)

MCH (6x144)-MID (2x48) O-side

I-side path (68x144+9x48):

TRD (10x144) + CTP (3x48 + 1x48 SM)

TPC (52x144) A-side

TOF (1x48) A-side

MCH (6x144) I-side

MID (2x48) I-side

FIT (3x48)

GBTx/GPON cables:

In L3 (conventional cable):

MFT (1x24 LC-GBTx)

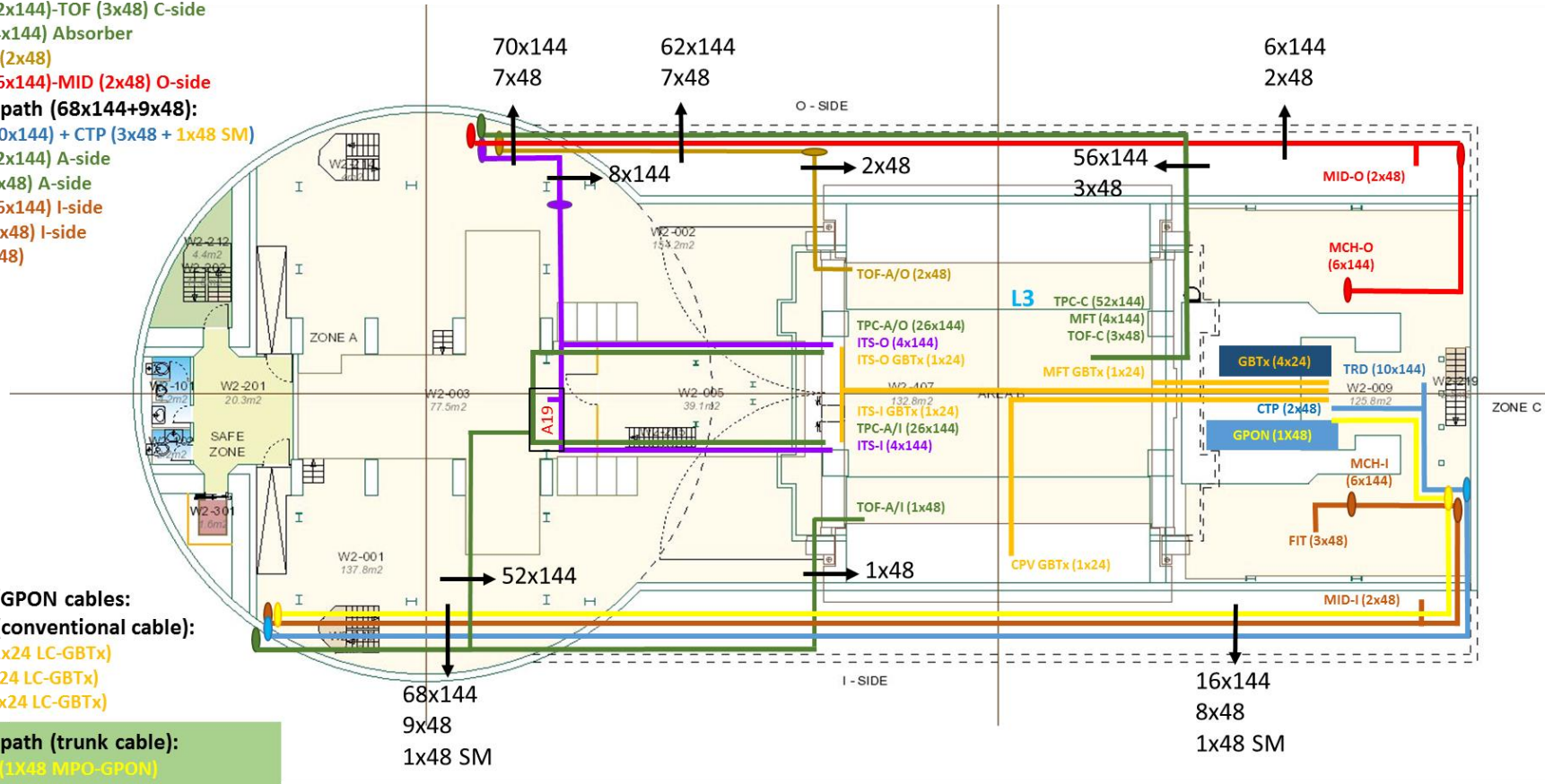
ITS (2x24 LC-GBTx)

CPV (1x24 LC-GBTx)

I-side path (trunk cable):

GPON (1x48 MPO-GPON)

Trunk cable paths in the PIT



Cable length

Measurements:

- Laser
- CATIA 3D
- Installation of mock-up cable on site

Cable length for FIT = 140 m

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Request for special dispersion compensated fibres:

- EN-EL-FC is not able to supply these fibres.
- The only special fibres that we are able to supply at that time are the radiation resistant single-mode and multi-mode fibres.



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Thanks for your attention.