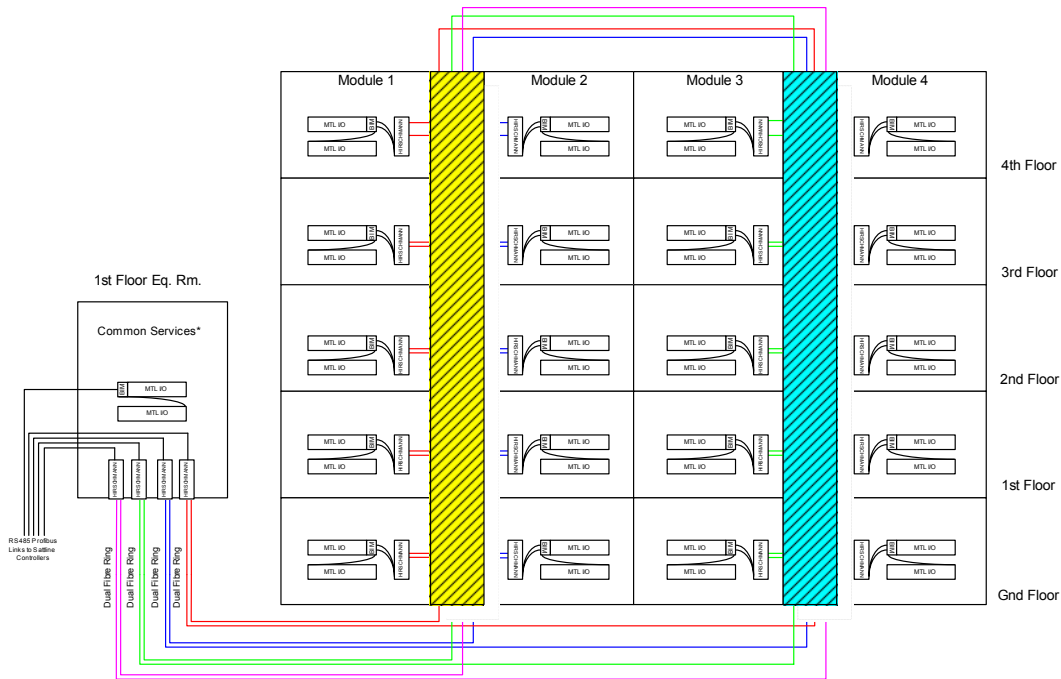


DCS Expansion

An existing 4 module, 5 floor pharmaceutical pilot plant had run out of DCS I/O points and rack room space. Expansion/change to its processes without a significant upgrade was not feasible.

Various options were looked at and the method finally chosen was to fit Zone 2 located Intrinsically Safe I/O close to plant items. These communicated back to the existing DCS Controllers via dual redundant Profibus DP fibre optic links.

The I/O racks installed have considerable capacity for future capacity. I/O will be fitted as projects are implemented within the pilot plant.



- Dual redundant Fibre Optic Network provides same level of security as existing DCS system
- Existing DCS and control algorithms maintained, minimising configuration, testing and training time
- Minimum disruption to existing DCS to fit Profibus cards, no additional rack room space required
- Intrinsically Safe I/O does not require additional barriers, keeping costs down
- Plant mounted I/O requires shorter cable lengths to field devices, saving installation cost and time
- Plant mounted I/O uses self declaration for category 3 equipment to the ATEX directive to keep equipment costs down

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