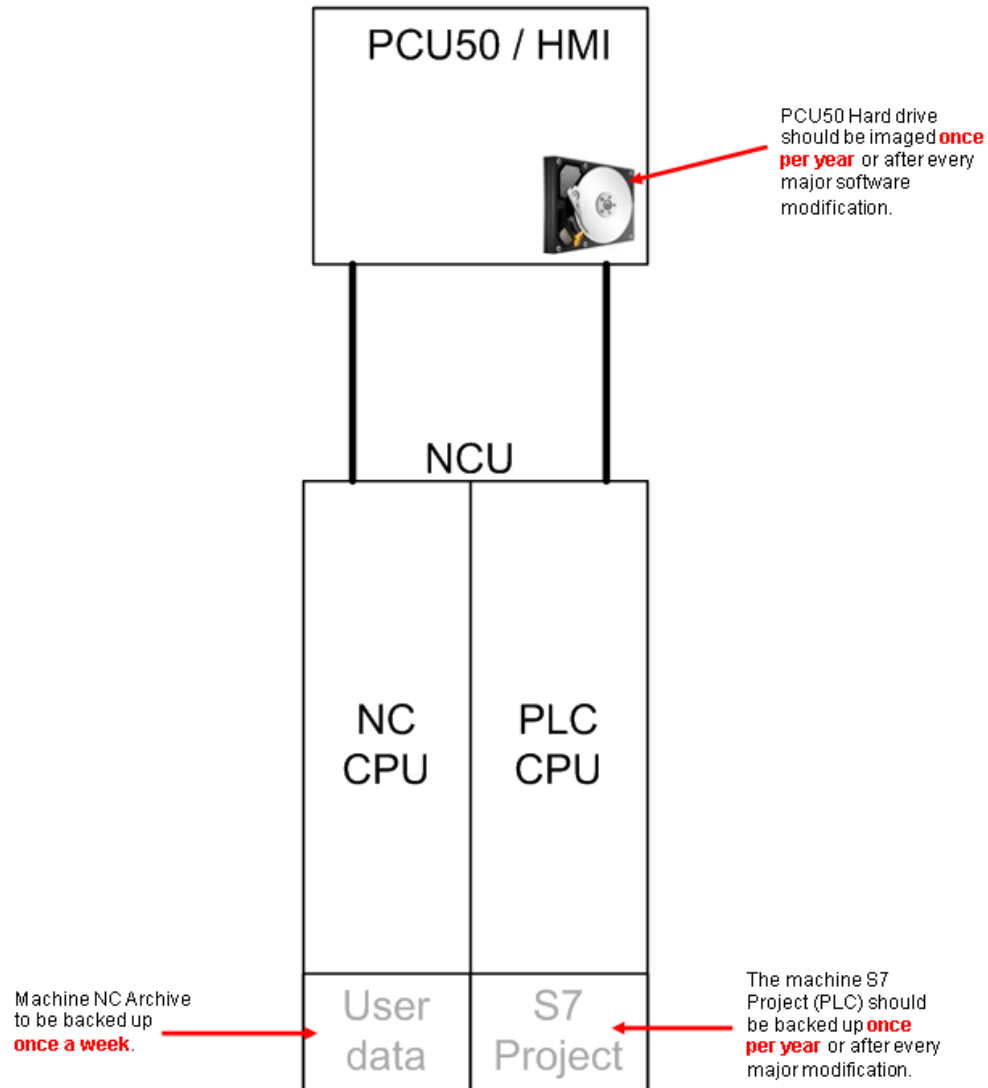


# Halewood IT Machine Data Connection Overview

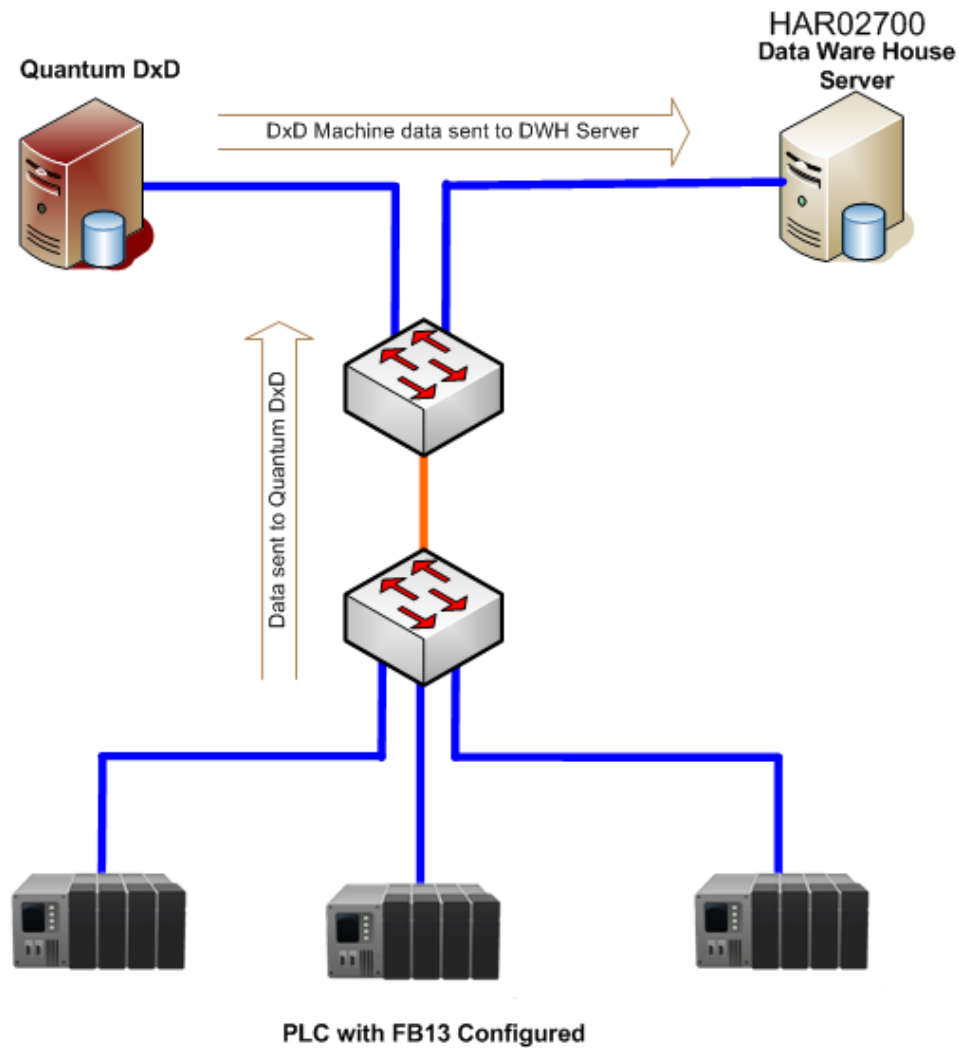


Precision. Passion. Partnership.

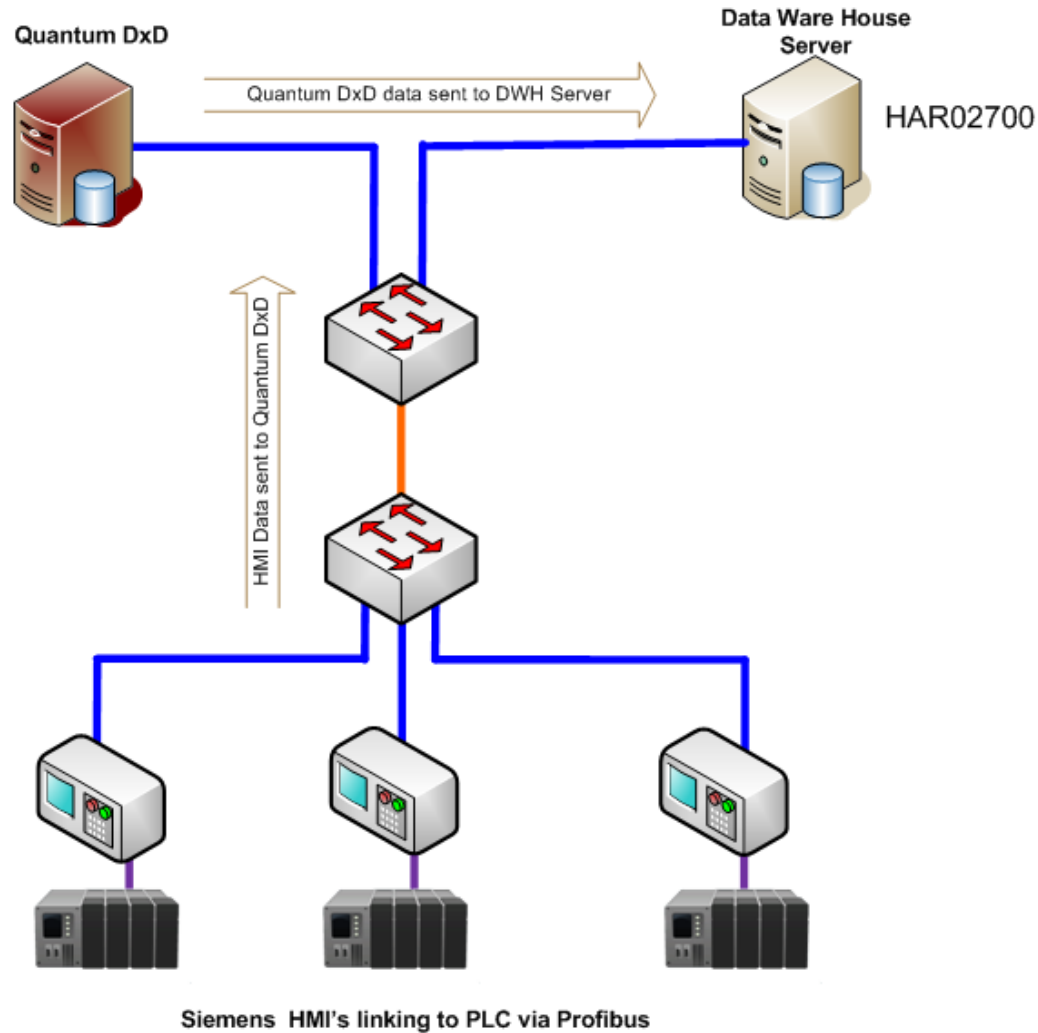
# Basic Machine concept



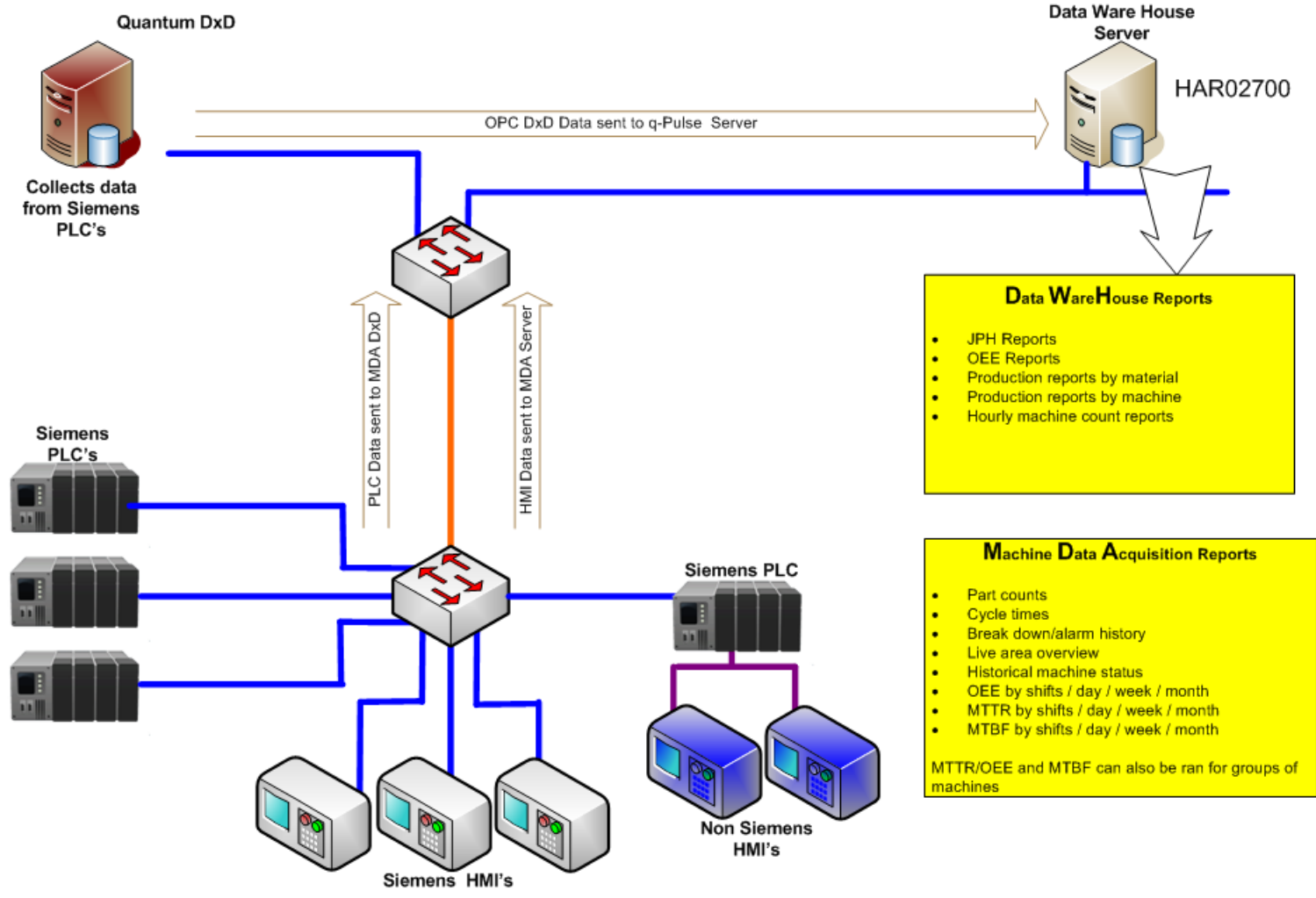
# Machine connection – method 1



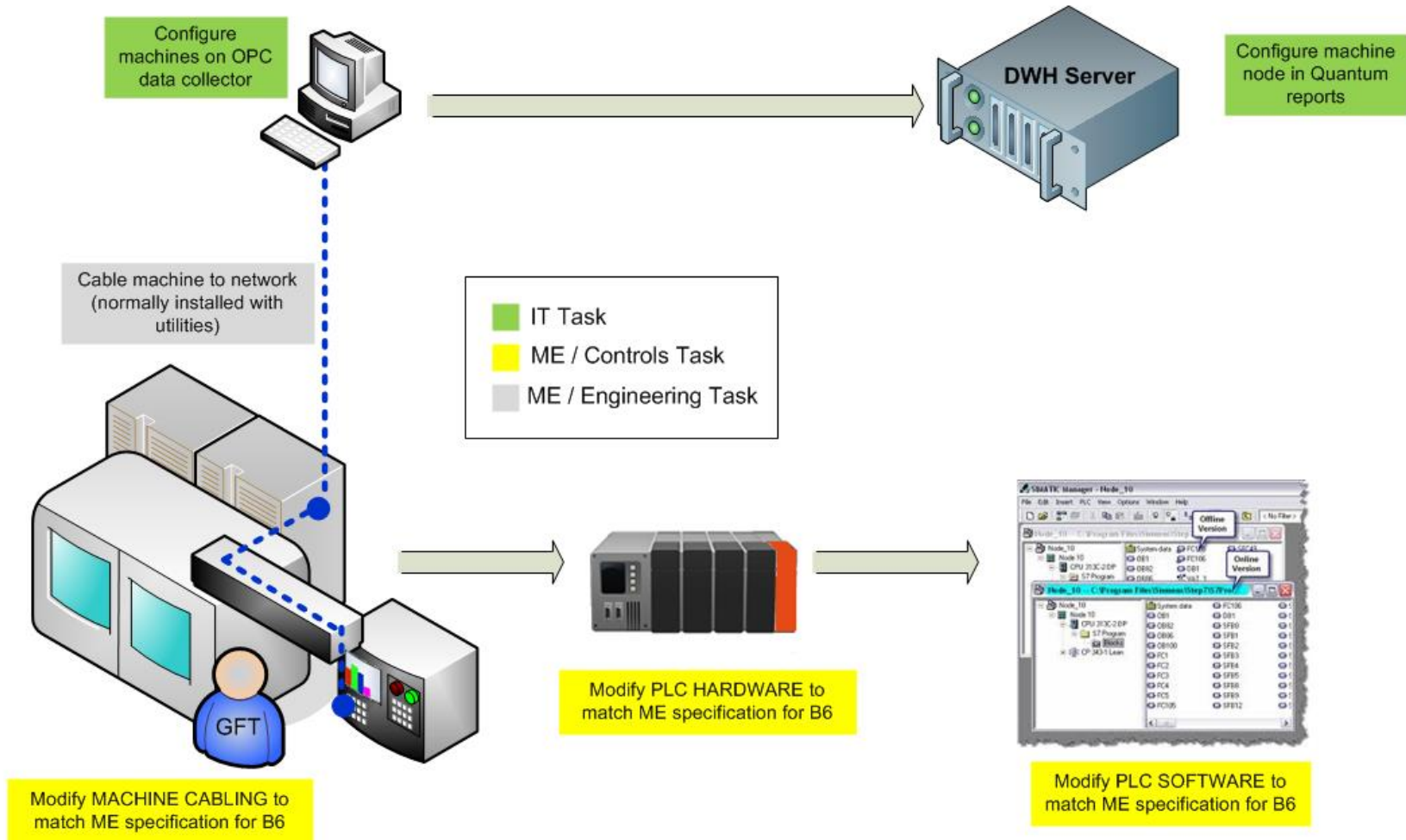
# Machine connection – method 2



# Machine connection – method 3



# Machine DB13 to DWH interface

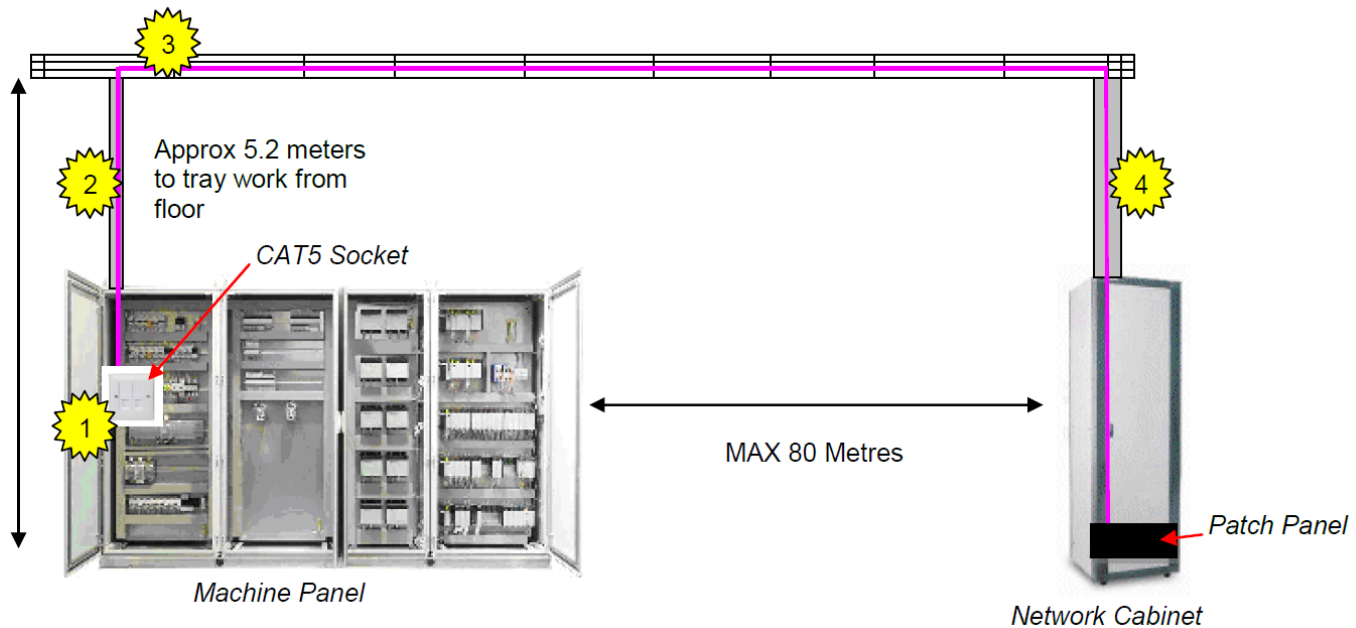


# Machine Cabling for connection of PLC

## PRODUCTION NETWORK CABLING

CABLING STANDARDS FOR MANUFACTURING PRODUCTION DEVICES

Each new machine or machine move should consider the fact that we now network machine controls. As a result, each machine should be fitted with an Ethernet network drop that runs from the local electrical cabinet to the nearest network cabinet.



## Steps required for connecting a machine to Q-Pulse

DB13 Configured to GETRAG Specification - Vendor

DB13 validated by GETRAG - M.E (Manufacturing Engineering)

Machine cabled to patch panel - M.E

Machine patched to manufacturing switch - IT

Machine configured to Quantum OPC DxD – IT / Quantum

Machine node in DXD added to Q-Pulse - IT / Quantum

Machine integrated into reports - IT / Quantum

Reports tested – IT / Production



# Questions / Comments