

SOLUTIONS FOR DATA EXCHANGE BETWEEN VARIOUS INDUSTRIAL CONTROL SYSTEMS

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In the LHC project both the accelerator and the experiments have to integrate various control subsystems. In order to use efficiently its human resources and to facilitate the controls integration, CERN has limited the choice of both fieldbuses types and PLCs. The exchange of data between these industrial systems and the CERN specific equipment's will be done via fieldbuses (PROFIBUS, WorldFIP and CAN), Ethernet TCP/IP or point to point connection. A number of possible solutions have been studied and implemented, and the resulting conclusions are presented.