

- Abstract

The LHC cryogenics control system is a unique example of a large industrial process control system. Even complying with the classical automation architecture based on industrial components it represents a challenge where almost all automation technologies present at CERN (e.g. advanced measurement systems, industrial communications, PLCs & front-ends, and large supervision systems) are present.

During the project life cycle many interactions with industry were revealed. The talk illustrates them, initially by the collaboration with an industrial integrator, the close partnership with our main supplier firms and also the advanced control and simulation activities that allowed a technology transfer of a highly specialized cryogenics library to industry.