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Development of DAQ to DCS communication in the ATLAS Inner Tracker

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The increase of luminosity foreseen for the High-Luminosity LHC phase requires the substitution of the ATLAS Inner Detector with a new tracking detector, called Inner Tracker. It will be an all-silicon system consisting of a pixel and a strip subdetector. The ATLAS wide FELIX system will be the off-detector interface to the Inner Tracker.

In order to efficiently bring the Inner Tracker into operation, the intercommunication between the DAQ and the DCS is foreseen. Such communication is mediated by OPC servers that interface to the different hardware and software resources and to the Finite State Machine, which supervises all subdetectors. This framework is designed to be flexible, so that it can easily incorporate heterogeneous resources coming from different subsystems, including the FELIX setups.

This poster describes the current status of the implementation of OPC servers for the intercommunication between the DAQ and the DCS and their integration in the FELIX setups.

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