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Control facilities for the Fast Interaction Trigger detector in the ALICE experiment

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ALICE has installed four new detectors during a three-year upgrade preceding the just-started LHC Run 3. One of them is Fast Interaction Trigger (FIT). It consists of three subdetectors: FT0, FV0 and FDD. The uniformity of subdetectors' front-end electronics (FEE), HV system and infrastructure allowed us to develop a unified approach to control its parameters. Here we describe the implementation of the FIT detector control facilities represented by two types of software. The first one, based on the SCADA system WinCC OA, provides HV control and detector infrastructure integration into the ALICE Detector Control System (DCS). The second is an application that binds FEE and the WinCC OA and provides an independent graphical user interface for electronics tuning. The experience gained during the first year of FIT operation gives us the understanding to implement further improvements to the control system.

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