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Development of TiO-0016, a web tool for ATLAS Tile Calorimeter

TiO-0016 is part of the Tile-in-One Platform (TiO), a collection of independent web applications called plugins. It is designed to provide temperature and voltage data assessment from the Front End (FE) Electronics of the Tile Calorimeter. Since instrumentation and its interfaces are a very important aspect of any experiment, automatic control procedures, efficient error recognition and managing communication with external systems is crucial to perfect collected data from the ATLAS experiment. The Detector Control System (DCS) of the ATLAS Experiment at CERN enables equipment supervision of all the twelve different ATLAS sub-detectors. Most of the offline analysis software were usually created by different collaborators and a variety of different technologies were used in their development. Maintenance and usage were cumbersome and most times, original developers were not available to support. A report on a single plugin developed to access, present and analyse data on voltage and temperature from the Front-end power supplies is given. This is geared towards a contribution to the Tile-in One Calorimeter Platform (TiO). The aim is to achieve ease of maintenance and ease of usage of the web interface tools.

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