

Slow Control System for the CMS Hadron Calorimeter

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Abstract

The CMS is one of the big experiments at LHC. The Hadron Calorimeter (HCAL) is a part of the CMS detector. To provide normal work of the HCAL the Detector Control System (DCS) is used. This system includes control and monitoring of the High and Low voltage power supplies and a control of the calibration system.

The High voltage power supply system is based on the hardware developed in Sofia university. The control system consists of Custom software with the configuring tools and the SCADA part of software.

Low voltage monitoring system will be built using standard SCADA tools.

The HCAL calibration system has three parts:

- radioactive source calibration subsystem,
- LED calibration subsystem,
- laser calibration subsystem.

All these three subsystems use both Custom software and SCADA part of the control and monitoring system.

The report describes architecture of HCAL DCS and different aspects of interfacing of Custom software to SCADA.