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Experience with configurable acquisition software

In the framework of the measurement applications that have been developed for the LHC superconducting magnets quality analysis, a new level has been reached in the measurements and tests automation. The CERN SM18 test benches facility is dedicated to the reception tests and magnetic characterization of the dipoles, SSS's and special SSS's. During the last four years the electronic and controls systems of this facility have been fitted with a wide range of software applications that allow execution of insulation and power tests, magnetic measurement and quench performance analysis. The final integration of the bench orchestration, the configuration management system and the magnetic measurement program provide to the SM18 operation a fast and fully automated system. The main parts of this software chain will be presented.

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