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JCOP Framework Configuration Database Tool

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The control systems of the LHC experiments are built using the common commercial product: PVSS II (from the ETM company). The JCOP Framework Project delivers a set of common tools built on top of, or extending the functionality of, PVSS (such as the control for widely used hardware, a Finite State Machine (FSM) toolkit, access control management, cooling and ventilation application) which can be used by all LHC experiments. The Configuration Database Tool is a part of the JCOP Framework responsible for management of the configuration data. The tool manages versions of system, static and configuration data, and uses Oracle DBMS to store it. Typically, for a single subsystem, thousands of devices and tens of thousands of properties would need to be managed. The paper describes our experiences from the prototype phase and the design and implementation of the production version of the tool. Currently, the implementation is being completed and the tool is being deployed in the experiments' control systems. In this implementation, effort was put on providing the functionality requested by the developers, and providing good performance and scalability.

Primary author: GOLONKA, Piotr (CERN, IT/CO-BE)

Presenter: GOLONKA, Piotr (CERN, IT/CO-BE)

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