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Role Based Access Control for the Accelerator Control System at CERN

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Given the significant dangers of LHC operations, access control to the accelerator controls system is required. This paper describes the requirements, design, and implementation of Role Based Access Control (RBAC) for the LHC & injectors controls systems. It is an overview of the two main components of RBAC: authentication and authorization, and the tools needed to manage access control data. We begin by stating the main requirements of RBAC and then describe the architecture and its implementation. RBAC is developed by LAFS a collaboration between CERN and Fermilab.

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