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In the design of the control system for the ALICE experiment much emphasis has been put on cyber security. The control system operates on a dedicated network isolated from the campus network and remote access is only granted via a set of Windows Server 2003 machines configured as application gateways. The operator consoles are also separated from the control system by means of a cluster of terminal servers. Computer virtualization techniques are deployed to grant time-restricted access for sensitive tasks such as control system modifications. This paper will describe the global access control architecture and the policy and operational rules defined. The role-based authorization schema will also be described as well as the tools implemented to achieve this task. The authentication based on smartcard certificates will also be discussed.

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