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Integrated Access Control for PVSS-based SCADA Systems at CERN

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The protection of the PVSS-based Human-Machine-Interface parts of the Control Systems for the LHC accelerator and the experiments at CERN is implemented using the JCOP Framework Access Control component. It allows to protect from non-malicious activity (such as misuse due to operator's mistake) by enabling/disabling the elements of the User Interface. It extends the native PVSS mechanisms for user-authentication and makes the management of the role-based authorizations easy to configure and maintain. Ultimately, it enables the synchronization of the access-control related data across distributed systems, and allows to synchronize this data with central user-management resources at CERN (such as Active Directory), and automated creation of user accounts.

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