Status of the RBAC Infrastructure and Lessons Learnt from its Deployment in LHC

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WEMMU009
Role-Based Access Control - Project Goal

- Access control for LHC equipment
  - ~35’500 eqp. instances
  - Must run 24*7*365

- Authentication (A1) & Authorization (A2)

- Definition of the operational access rules
  - Who can do What and When

- Tracing and audit of the access requests

- Deployed in LHC in 2008

- Ready to protect also other machines
  - Used already for sub-systems in PS & SPS
Role-Based Access Control – Recent Progress

- Integration with all layers of the Control System

- Dynamic Authorization algorithm
  Different Policies

- Introduction of *Operational Mode*
  *Is beam in the machine?*

- Quality Assurance
  - Test-driven development
  - Codebase refactoring
  - Performance improvements