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

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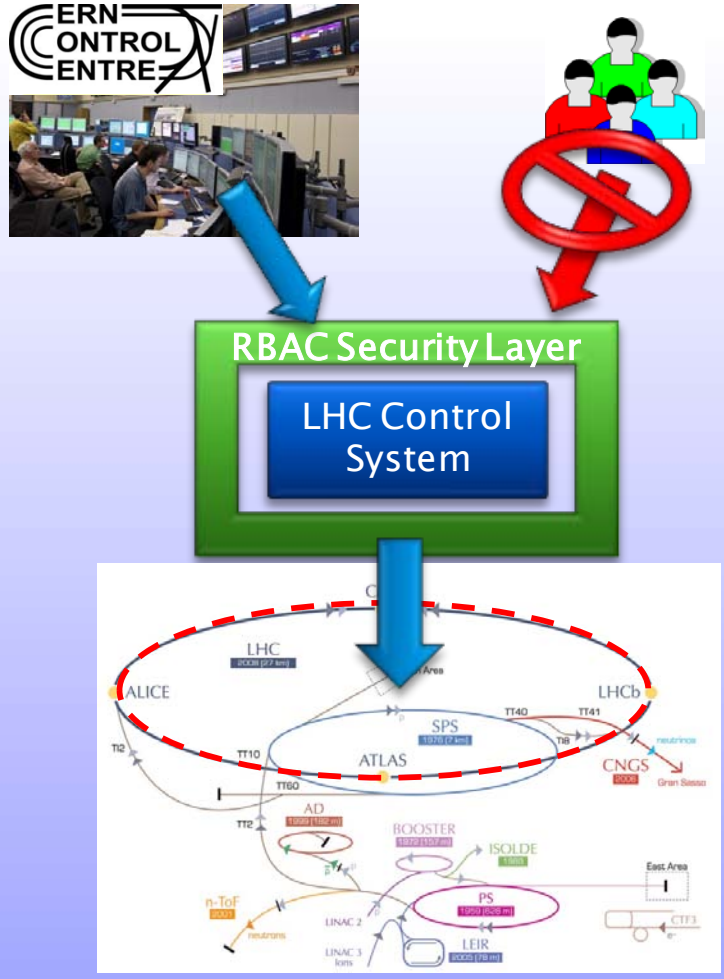
Role-Based Access Control - Project Goal

- 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



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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