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# Controls & software

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A large number of components of the LHC controls infrastructure have been intensively exercised during several dry runs and the injection synchronization tests in 2008, in preparation for the LHC start up with beam. All the prior tests were extremely useful to validate the basic functionality, to identify areas of weakness and to prepare the controls to a stable and well functioning infrastructure, which supported the successful LHC start up.

This presentation will summarize the outcome of the controls commissioning with emphasis on major components like LSA, Timing synchronization, middleware, logging, and Role Based Access, the issues observed and the improvements to be implemented before the next LHC run in 2009.

**Primary author:**   HATZIANGELI, Eugenia

**Presenter:**   HATZIANGELI, Eugenia

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