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Overview of Data Management solutions for the Control and Operation of the CERN Accelerators

Monday 6 June 2011 14:00 (30 minutes)

The control and operation of the CERN accelerator complex is fully based on data-driven applications. The data foundation models the complex reality, necessary for the configuration of the accelerators controls systems and is used in an online and dynamic way to drive the particle beams and surrounding installations. Integrity of the data and performance of the data-interacting applications are key requirements and challenges that have been satisfied.

This presentation will give an overview of what is currently in production, from the mission-critical data (controls configuration, operational settings, alarms, logging,...) to the closely related offline information (layout, equipment details,...) and the need that all of this has to fit together (relationally). Figures of complexity and performance will be given, also indicating the means that we have put in place to monitor, diagnose and track the usage of our data management services.

Proposed speaker

Zory Zaharieva & Chris Roderick

Author: Mr BILLEN, Ronny (CERN)

Co-authors: Mr RODERICK, Chris (CERN); Ms ZAHARIEVA, Zory (CERN)

Presenters: Mr RODERICK, Chris (CERN); Ms ZAHARIEVA, Zory (CERN)

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