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Monitoring and Accounting for the Distributed Computing System of the ATLAS Experiment

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ATLAS developed over the years a large number of monitoring and accounting tools for distributed computing applications. In advance of the increased experiment data rates and monitoring data volumes foreseen for LHC Run 3 starting in 2012, a new infrastructure has been provided by the CERN-IT Monit group, based on InfluxDB as the data store and Grafana as the display environment. ATLAS is adapting and further developing its monitoring tools to use this infrastructure for data and workflow management monitoring and accounting dashboards, expanding the range of previous possibilities with the aim of achieving a single, simpler, environment for all monitoring applications. This presentation will describe the tools used, the data flows for monitoring and accounting, the problems encountered and the solutions found.

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