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# New monitoring applications in the Experiment Dashboard

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The LHC experiments ALICE, ATLAS, CMS and LHCb are preparing for data acquisition planned to start in 2008. The LHC experiments are relying on several GRID infrastructures (LCG/EGEE, OSG, NDGF). Providing the reliable monitoring system which enables the transparent view of the experiment activities across different middleware platforms and combines the Grid monitoring data with information which is specific for the experiment/activity/application is a vital and challenging task. The Experiment Dashboard is used by all four LHC experiments to follow their activities on the Grid. There are multiple monitoring applications of the Experiment Dashboard which are in production and are widley used by the LHC VOs. At the same time the project is in active development phase. Existing applications are evolving and new applications are developed following the suggestions of the user community.

## 3. Impact

The focus of the presentation is monitoring for the Monte Carlo production of the ATLAS and CMS experiments. Monte Carlo production is a very important activity of the LHC VOs which is fully relying on the distributed infrastructure. The main users of the system are production managers and operators and the monitoring system should allow them to follow the production progress and detect problems in a straight forward way. Due to the close collaboration with the user community and the resulting feedback it was possible to make major improvements in the functionality compared to previous production monitoring system.

## URL for further information:

http://dashb-atlas-prodsys-test.cern.ch/dashboard/request.py/overview-taskjobs

## 4. Conclusions / Future plans

The Experiment Dashboard is an evolving system which is covering more and more areas of the experiment activities on the Grid. The main goals of the future development are to improve the reliability, the completeness of the provided monitoring data and to satisfy better the exact needs of the user community.

## Provide a set of generic keywords that define your contribution (e.g. Data Management, Workflows, High Energy Physics)

Monitoring , LHC Experiments, dashboard, Monte Carlo production monitoring

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## 1. Short overview

The Experiment Dashboard is a monitoring system initially developed for the LHC experiments in order to provide the view of the Grid infrastructure from the perspective of the virtual organization.
The presentation will focus on the recently developed applications, in particular monitoring systems for the Monte Carlo production for ATLAS and CMS experiments.

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