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Use of the gLite-WMS in CMS for production and analysis

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The CMS experiment at LHC started using the Resource Broker (by the EDG and LCG projects) to submit production and analysis jobs to distributed computing resources of the WLCG infrastructure over 6 years ago. In 2006 it started using the gLite Workload Management System (WMS) and Logging & Bookkeeping (LB). In current configuration the interaction with the gLite-WMS/LB happens through the CMS production and analysis frameworks, respectively ProdAgent and CRAB, through a common component, BOSSLite.
The important improvements recently made in the gLite-WMS/LB as well as in the CMS tools and the intrinsic independence of different WMS/LB instances allow CMS to reach the stability and scalability needed for LHC operations. In particular the use of a multi-threaded approach in BOSSLite allowed to increase the scalability of the systems significantly.
In this work we present the operational set up of CMS production and analysis based on the gLite-WMS and the performances obtained in the past data challenges and in the normal daily operations of the experiment.

Summary

Presentation type (oral | poster)

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