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Status of the DIRAC Project

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The DIRAC Project was initiated to provide a data processing system for the LHCb Experiment at CERN. It provides all the necessary functionality and performance to satisfy the current and projected future requirements of the LHCb Computing Model. A considerable restructuring of the DIRAC software was undertaken in order to turn it into a general purpose framework for building distributed computing systems that can be used by various user communities in High Energy Physics and other application domains. The ILC Collaboration started to use DIRAC for their data production system. The Belle Collaboration at KEK, Japan, has adopted the Computing Model based on the DIRAC system for its second phase starting in 2015. The CTA Collaboration uses DIRAC for the data analysis tasks. A large number of other experiments are starting to use DIRAC or are evaluating this solution for their data processing tasks. DIRAC services are included as part of the production infrastructure of the GISELA Latin America grid. Similar services are provided for the users of the French segment of the EGI Grid. The new communities using DIRAC started to provide important contributions to its functionality. Among recent additions can be mentioned the support of the Amazon EC2 computing resources; a versatile File Replica Catalog with the File Metadata capabilities; support for running MPI jobs in the pilot based Workload Management System. Integration with existing application Web Portals, like WS-PGRADE, is demonstrated.

In this paper we will describe the current status of the DIRAC Project, recent developments of its framework and functionality as well as the status of the rapidly evolving community of the DIRAC users.

Primary authors: CASAJUS RAMO, Adrian (University of Barcelona (ES)); Dr TSAREGORODTSEV, Andrei (Universite d'Aix - Marseille II (FR)); STAGNI, Federico (CERN); SAPUNOV, Matvey (Universite d'Aix - Marseille II (FR)); GRACIANI DIAZ, Ricardo (University of Barcelona (ES)); Ms HAMAR, Vanessa (CPPM-IN2P3-CNRS, Marseille)

Presenter: Dr TSAREGORODTSEV, Andrei (Universite d'Aix - Marseille II (FR))

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