

21st International Conference on Computing in High Energy and Nuclear Physics (CHEP2015)



Contribution ID: 325

Type: **poster presentation**

Data Management System of the DIRAC Project

The DIRAC Interware provides a development framework and a complete set of components for building distributed computing systems. The DIRAC Data Management System (DMS) offers all the necessary tools to ensure data handling operations for small and large user communities. It supports transparent access to storage resources based on multiple technologies, and is easily expandable. The information on data files and replicas is kept in a File Catalog of which DIRAC offers a powerful and versatile implementation (DFC). Data movement can be performed using third party services including FTS3. Bulk data operations are resilient with respect to failures due to the use of the Request Management System (RMS) that keeps track of ongoing tasks. In this contribution we will present an overview of the DIRAC DMS capabilities and its connection with other DIRAC subsystems such as the Transformation System.

The DIRAC DMS is in use by several user communities now. The contribution will present the experience of the LHCb experiment. The experience of other experiments as well as multi-VO DIRAC services with the use of the DIRAC DMS will be described.

Primary authors: Dr TSAREGORODTSEV, Andrei (CPPM, Aix-Marseille Université, CNRS/IN2P3, Marseille, France); HAEN, Christophe (CERN); CHARPENTIER, Philippe (CERN)

Presenter: HAEN, Christophe (CERN)

Track Classification: Track3: Data store and access