



Contribution ID: 114

Type: **Poster presentation**

CMS experience of running glideinWMS in High Availability mode

Monday, October 14, 2013 3:00 PM (45 minutes)

The CMS experiment at the Large Hadron Collider is relying on the HTCondor-based glideinWMS batch system to handle most of its distributed computing needs. In order to minimize the risk of disruptions due to software and hardware problems, and also to simplify the maintenance procedures, CMS has set up its glideinWMS instance to use most of the attainable High Availability (HA) features. The setup involves running services distributed over multiple nodes, which in turn are located in several physical locations, including Geneva, Switzerland, Chicago, Illinois and San Diego, California. This paper describes the setup used by CMS, the HA limits of this setup, as well as a description of the actual operational experience spanning many months.

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Session Classification: Poster presentations

Track Classification: Distributed Processing and Data Handling A: Infrastructure, Sites, and Virtualization