EGEE
Enabling Grids
for E-sciencE

Contribution ID: **49**   Type: **Poster**

Grid interoperation with ARC middleware for CMS experiment

Tuesday 23 September 2008 16:25 (1 minute)

Describe the activity, tool or service using or enhancing the EGEE infrastructure or results. A high-level description is needed here (Neither a detailed specialist report nor a list of references is required).

Compact Muon Solenoid (CMS) is one of the LHC experiments at CERN. CMS computing relies on different grid infrastructures to provide calculation and storage resources.

Report on the impact of the activity, tool or service. This should include a description of how grid technology enabled or enhanced the result, or how you have enabled or enhanced the infrastructure for other users.

CMS Tier-2 centers operate software systems for data transfers (PhEDEx), Monte Carlo production (ProdAgent) and data analysis (CRAB). The experiences gained in using gLite and ARC components for these CMS computing tasks are presented.

Describe the added value of the grid for your activity, or the value your tool or service adds for other grid users. This should include the scale of the activity and of the potential user community, and the relevance for other scientific or business applications.

Helsinki Institute of Physics (HIP) builds one of the Tier-2 centers for CMS computing.
For this purpose, HIP uses tools and components from both gLite and ARC grid middleware stacks.
Interoperation between grids is a challenging problem and one of the techniques used is a modified gLite WMS that can submit jobs to ARC resources from a gLite UI.

Author: HAPPONEN, Kalle (Helsinki Institute of Physics HIP)

Co-authors: Mr PIRINEN, Antti (Helsinki Institute of Physics HIP); Dr QING, Di (CERN); Mr EDELMANN, Erik (CSC - Scientific Computing Ltd); Mr FREY, Jaime (University of Wisconsin); Mr KOIVUMAKI, Jesper (Helsinki Institute of Physics HIP); Dr KLEM, Jukka (Helsinki Institute of Physics HIP); Mr FIELD, Laurence (CERN); Dr LINDEN, Tomas (Helsinki Institute of Physics HIP)

Presenter: HAPPONEN, Kalle (Helsinki Institute of Physics HIP)

Session Classification: Demos and Posters

Track Classification: Poster