Contribution ID: **52** Type: **Poster**

The Service Level Status for HEP experiments

Tuesday 23 September 2008 16:28 (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).

This contribution describes how ATLAS, CMS and LHCb use the Service Level Status (SLS) framework, developed at CERN, to monitor many of the services in their computing system. Some of these services are part of the EGEE Grid, while others are experiment-specific.

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.

This contribution will describe how part of the monitoring of the Grid and the experiment specific services of the LHC experiments can be integrated into the Service Level Status (SLS) framework.
The ATLAS, CMS and LHCb experiments are using an increasingly number of complex and heterogeneous services.
SLS is a framework that allows to group all these different services, and to report their status and their availability.
The SLS system addresses these needs by providing a web-based display. It dynamically shows availability, basic information and statistics about these services, as well as the dependencies between them.
The SLS framework has been developed by the CERN-IT/FIO group and has been adopted to monitor different services:
SLS is currently dealing with more than 350 services, spawning from administrative applications, to physics and infrastructure services, from Grid related to experiment specific services.
The modularity of SLS allows to provide different views for differen

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.

The LHC experiments rely on the Grid infrastructure to perform most of their simulation, reconstruction and analysis activities. They require an accurate and updated picture of the status of the Grid services used by them, and of the services which are specific to the experiment. The integration between the Service Level Status, the experiment computing frameworks, and the Grid services is useful to achieve a high efficiency in running the experiment computing system.

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