



Contribution ID: 145

Type: poster

## Testing and integrating the WLCG/EGEE middleware in the LHC computing

*Wednesday, September 5, 2007 8:00 AM (20 minutes)*

The main goal of the Experiment Integration and Support (EIS) team in WLCG is to help the LHC experiments with using proficiently the gLite middleware as part of their computing framework. This contribution gives an overview of the activities of the EIS team, and focuses on a few of them particularly important for the experiments. One activity is the evaluation of the gLite workload management system (WMS) to assess its adequacy for the needs of the LHC computing in terms of functionality, reliability and scalability. We describe in detail how the experiment requirements can be mapped to validation criteria, and the WMS performances are accurately measured under realistic load conditions over prolonged periods of time. Another activity is the integration of the Service Availability Monitoring system (SAM) with the experiment monitoring framework. The SAM system is widely used in the EGEE operations to identify malfunctions in Grid services, but it can be adapted to perform the same function on experiment-specific services. We describe how this has been done for some LHC experiments, which are now using SAM as part of their operations.

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**Session Classification:** Poster 2

**Track Classification:** Grid middleware and tools