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Type: Demo

Monitoring the LHC Experiments Distributed Computing with the Service Level Status

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This contribution will describe how part of the monitoring of the LHC experiments Grid and the specific services can be integrated into the Service Level Status (SLS) framework.

Impact

The modularity of SLS allows providing different views for different end-users. The various services can provide, together with the mandatory availability status, many parameters to SLS via an user-friendly format. SLS can easily represent complex services, which are composed by different subservices. For each service thresholds can be defined to trigger alarms of increasing severity. Historical data available in the SLS database can be retrieved via the web interface. The SLS monitoring information can be easily accessed via a programmatic interface and displayed via other visualization tools, like GridMap.

SLS is now effectively used to monitor the status of the LHC experiments service.

URL for further information

sls.cern.ch , <http://sls.cern.ch/sls/service.php?id=ServicesForATLAS> ...

Conclusions and Future Work

SLS is now effectively used to monitor the status of the LHC experiments service. Many more Grid or experiment specific services can be integrated into the SLS framework, and work is in progress to have a scalable system that will provide a global view of the LHC Distributed Computing infrastructure.

Keywords

service level status, monitoring, availability

Justification for delivering demo and technical requirements (ONLY for demonstrations)

A demonstrations could be useful to explain the different functionality for shifters and experts, allowing them to interact lively with the SLS framework.

Detailed analysis

The LHC 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.

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Session Classification: Demo Session

Track Classification: Grid Services exploiting and extending gLite middleware