

The four main LHC experiments - ALICE, ATLAS ,CMS and LHCb – have individually developed specific workload and data management systems. In order to provide the global view of the status of LHC distributed computing, the experiment-specific systems and the generic monitoring frameworks need to be integrated. The goal of this integration is to create a global monitoring infrastructure with dedicated portals providing a complete and reliable picture of the status of the LHC computing activities on the Grid and of the status of the distributed sites and services.

This includes:

- Development of experiment-specific plug-ins for existing generic frameworks such as Service Availability Monitoring (SAM), Service Level Status (SLS) and Nagios;
- Enabling a common way of communication between various components of the monitoring infrastructure via the Messaging System for the Grid based on the Apache ActiveMQ message broker;
- Development of monitoring portals serving the needs of various information consumers including the LHC user communities, WLCG support teams, WLCG management and support teams at the distributed sites.