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The ALICE-LHC Online Data Quality Monitoring Framework

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ALICE is one of the experiments under installation at CERN Large Hadron Collider, dedicated to the study of Heavy-Ion Collisions. The final ALICE Data Acquisition system has been installed and is being used for the testing and commissioning of detectors. Data Quality Monitoring (DQM) is an important aspect of the online procedures for a HEP experiment. In this presentation we overview the architecture, implementation and usage experience of ALICE's AMORE (Automatic MOnitoRing Environment), a distributed application aimed to collect, analyze, visualize and store monitoring data in a large, experiment wide scale. AMORE is executed interfaced to the DAQ software framework (DATE) and follows the publish-subscribe paradigm where a large number of batch processes execute detector-specific analysis on raw data samples and publish monitoring results on specialized servers. Clients connected to these servers have the ability to correlate, further analyze and visualize the monitoring data. Provision is taken to archive the most important results so that historic plots can be produced.

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