

# COMPASS Grid Production System

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LHC Computing Grid was a pioneer integration effort, managed to unite computing and storage resources all over the world, thus making them available to experiments on the Large Hadron Collider. During decade of LHC computing, Grid software has learned to effectively utilise different types of computing resources, such as classic computing clusters, clouds and hyper power computers. While the resources experiments use are the same, data flow differs from experiment to experiment. A crucial part of each experiment computing is a production system, which describes logic and controls data processing of the experiment. COMPASS always relied on CERN facilities, and, when CERN, during hardware and software upgrade, started migration to resources, available only via Grid, faced the problem of insufficiency of resources to process data on. To make COMPASS data processing able to work via Grid, the development of the new production system has started. Key features of modern production system for COMPASS are: distributed data processing, support of different type of computing resources, support of arbitrary amount of computing sites. Build blocks for the production system are taken from achievements of LHC experiments, but logic of data processing is COMPASS-specific.

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