

# LcgCAF - The CDF portal to the gLite Middleware

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The increasing instantaneous luminosity of the Tevatron collider will soon cause the computing requirements for data analysis and MC production to grow larger than the dedicated CPU resources that will be available. In order to meet future demands, CDF is investing in shared, Grid, resources. A significant fraction of opportunistic Grid resources will be available to CDF before LHC era starts and CDF could greatly benefit from using them. CDF is therefore reorganizing its computing model to be integrated with the new Grid model. LcgCAF builds upon the gLite Middleware in order to establish a standard CDF environment transparent to the end-users. LcgCAF is a suite of software entities that handle authentication/security, job submission and monitoring and data handling tasks. CDF authentication and security are entirely based on the Kerberos 5 system, so we needed to develop a kerberos certificate renewing service based on GSI certificates, to guarantee job output transfer to CDF disk servers. An enqueueing and status monitoring functionality was introduced to make the CAF submission latencies independent of the gLite Work Load Management System ones. The CDF batch monitoring is presently based on information from the GridIce monitoring and the LCG Logging and Bookkeeping systems. Interactive monitoring is based on the Clarens Web Services Framework. The beta version of LcgCAF is already deployed and is able to run CDF jobs on most INFN-Grid sites.

## Summary

LcgCAF project builds upon the GRID gLite Middleware in order to establish a standard CDF environment transparent to the end-users. LcgCAF is a suite of software entities that handle authentication/security, job submission and monitoring and data handling tasks.

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