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LCG-RUS: An Implementation of GGF RUS Enabling Aggregative Accounting for LCG

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The LCG-RUS project implemented the Global Grid Forum's Resource Usage Service standard and made grid resources for LHC accountable in a common schema (GGF-URWG). This project is a part of UK e-Science programme with the purpose of staging grid computing from e-Research to computational market. The LCG-RUS is a complementary work for the precedor MCS (Market for Computational Service) RUS project, which implements the RUS specification in plain Web service. Considering the international characteristic of LCG, LCG-RUS addresses requirements of the grid project as whole, funding bodies, experiments, and users, by combing usage records from all three peer infrastructure (OSG, Nordugrid, LCG/EGEE) and presenting an aggregative view of resource usage for LHC VOs. The current record sources of LCG are mainly from DGAS, SGAS and APEL that provide realtime accounting and accounting after event respectively. A Role-Based Access Control (RBAC) mechnism ensures authorisation for different-level level user agents to access different operations/portTypes. Finally Statistical tools in the client-tier provides aggregative analysis and presents the results in graphical views.

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