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LHCb experience with LFC database replication

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Database replication is a key topic in the LHC Computing GRID environment to allow processing of data in a distributed environment. In particular LHCb computing model relies on the LHC File Catalog (LFC). LFC is the database catalog which stores informations about files spread across the GRID, their logical names and physical locations of all their replicas. The LHCb computing model requires the LFC to be replicated at Tier1s via Oracle Streams technology.

This paper will describe the LFC replicas deployment at Italian INFN National Center for Telematics and Informatics (CNAF) and at other LHCb Tier1 sites and will present subsequent stress test results. The tests were designed to evaluate any delay on the propagation of the streams and the scalability of the system. The tests show the robustness of the replica implementation with performance going beyond the experiment's requirements.

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