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GFAL and LCG-Util

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GFAL, or Grid File Access Library, is a C library developed by LCG to give a uniform POSIX interface to local and remote Storage Elements on the Grid. LCG-Util is a set of tools to copy/replicate/delete files and register them in a Grid File Catalog.

In order to match experiment requirements, these two components had to evolve. Thus, the new Storage Resource Manager interface, SRM v2.2, is now supported.

In addition to that, important requirements were to have a python interface to GFAL/LCG-Util, and to fully support Logical File Name (LFN) at GFAL level.

Data privacy is a very important issue for some people. Therefore, we have to integrate Hydra client into GFAL. It allows to manage encrypted files and the cryptographic keys. Others important topics of development are to optimize the number of requests to BDII, and also to provide Perl API to GFAL and LCG-Util.

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