



HOW TO USE GRID STORAGE

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- How to find available storage elements
- File transfer protocols
- LCG CLI Utils
- Logical File Catalog





File Transfer Protocols

- 1st Generation GDMP + edg-replica-manager
 C++ base, used Globus for Secure file transfer
- 2nd Generation uses web services via XML





Data Management Terminology

- GUID Globally Unique Identifier
- LFN Logical File Name
- SURL SiteURL





- lcg-aa add an alias in the RMC or the LFC for a given GUID
- **lcg-cp** copy a Grid file to a local destination
- lcg-cr copy and register a file
- lcg-del delete one file (either one replica or all replicas)
- lcg-gt get the TURL for a given SURL and transfer protocol
- Icg-Ia list the aliases for a given LFN, GUID or SURL
- lcg-lg get the GUID for a given LFN or SURL
- lcg-lr list the replicas for a given LFN, GUID or SURL
- lcg-ra remove an alias in the RMC or the LFC for a given GUID
- lcg-rep copy a file from

on

е

Storage Element to another Storage Element and registers it in the LRC or the LFC

Ic

g-

r

f - register in the LRC (and optionally in the RMC) or the LFC a file residing on an SE

set file status to "Done" for a given SURL in a specified request

The Unregister in the LRC or the LFC a file residing on an SE



- Ifc-chmod change access mode of a LFC directory/file in the name server.
- Ifc-chown change owner and group of a LFC directory/file in the name server
- **Ifc-delcomment** delete the comment associated with a file/directory
- Ifc-entergrpmap define a new group entry in Virtual Id table
- Ifc-enterusrmap define a new user entry in Virtual Id table
- **Ifc-getacl** get LFC directory/file access control lists
- **Ifc-In** make a symbolic link to a file or a directory in the LFC Name Server
- **Ifc-Is** list LFC name server directory/file entries
- **Ifc-mkdir** make LFC directory in the name server
- Ifc-modifygrpmap modify group entry corresponding to a given virtual gid
- **Ifc-modifyusrmap** modify user entry corresponding to a given virtual uid
- Ifc-rename rename a LFC file or directory in the name server.
- **Ifc-rm** remove LFC files or directories in the name server
- Ifc-rmgrpmap suppress group entry corresponding to a given virtual gid or group name





- Ifc-rmusrmap suppress user entry corresponding to a given virtual uid or user name
- **Ifc-setacl** set LFC directory/file access control lists
- **Ifc-**setcomment add/replace a comment associated with a file/directory



- http://grid-deployment.web.cern.ch/grid-deployment/documentation/LFC_DPM/ lcg_util /html/
- https://twiki.cern.ch/twiki/bin/view/LCG/LfcApi

