

# GRID File Catalogs

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# File Catalogs for LC

2 types of catalogs:

- Metadata catalog
- Replica catalog

Currently 2 solutions for metadata catalog:

- DESY meta-FC
- DIRAC FC

And for Replica catalogs:

- LCG File Catalog (LFC)
- DIRAC File catalog (DFC)

# The catalogs: Generalities

## The DESY meta-FC:

- LFC as replica catalog (grid-lfc.desy.de)
- Based on MySQL database
- Expert on site

## The DIRAC FC:

- DFC as replica catalog, also uses LFC (grid-lfc.desy.de)
- Server based on MySQL
- Included in DIRAC by default

# The catalogs: Pros

## The DESY meta-FC:

- Web interface (django): files queries
- Metadata filters (data and date)
- Metadata for Files/directories
- Ancestor/daughter relations

## The DIRAC FC:

- All files registered centrally
- Metadata can be set by anyone for any directory/file
- Ancestor/daughter relations
- Storage usage statistics
- Comes for free when using DIRAC

## The catalogs: Cons

### The DESY meta-FC:

- Users' files not registered here (only in the Replica catalog, the LFC)
- No metadata for users' files

### The DIRAC FC:

- No web portal yet
- Needs a dedicated client
- No file metadata based search (only directory)

## Current status

ILD-DBD production will use the DESY meta-FC. For stdhep registration (6f generation done using DIRAC), we will provide the necessary tools to get the info from DFC.

SID-DBD will use the DIRAC catalog, files also registered in LFC.

CLIC uses the DIRAC catalog.