

Transformation system

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- What's this
- How it works
- Agents

Note to the audience: credits for the development go to Andrew Smith





- ▶ A DIRAC system, as usually comprising:
 - MySQL tables
 - DIRAC Services
 - DIRAC Agents
 - Clients
 - Scripts
 - A set of **Plugins**
- Used for "repetitive" work
 - Can be used for different workflows
 - A generic enough system

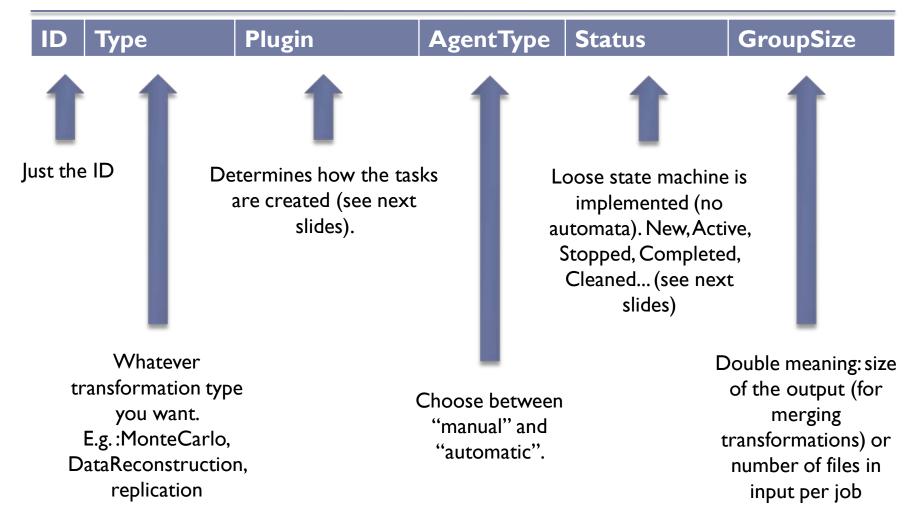


How it works

- A new <u>transformation</u> is created
- 2. There are (or there aren't) **input** files
 - 3. Each transformation has a **plugin**
- 4. **Tasks** are created based on the specified plugin
 - 5. Tasks are treated by an **external system**



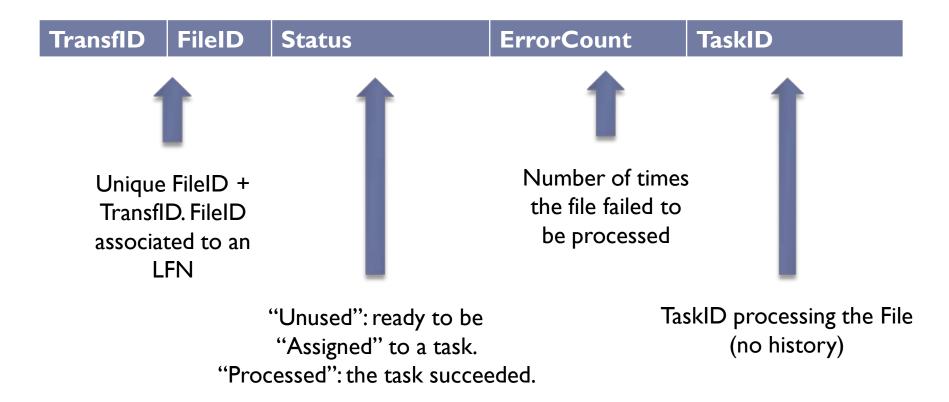
1: Transformation





2: Input files

Each Transformation can have a number of input filesE.g.: Data Reconstruction transformations







- Standard():
 - Group files by replicas (tasks create based on the file location)
- BySize():
 - Group files until they reach a certain size (Input size in Gb)
- ByShare()
 - Group files given the share (specified in the CS) and location

For replication:

- Broadcast()
 - Takes files at the source SE and brodcast to a given number of locations



4: Tasks, 5: External system

Tasks are treated by an external system:

- WMS (all but replication and removal transformations)
- DMS (replication and removal transformations)

