

Distributed Computing Matters

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Distributed Computing Matters

- FCC VO activated at CERN
 - [Standard VO registration procedure](#)
- HT Condor FCC resources connected to FCC VO
 - Dedicated group (fcc-cg) and pool accounts created (fcc001...fcc020)
- Defined EOS endpoint for Grid jobs
 - **/eos/experiment/fcc/prod**, connected/mapped to fcc001
 - Access strictly controlled by e-group
 - **fcc-eos-access**: read, no deletion
 - **fcc-eos-write-prod**: write, deletion
 - Only fcc00x in the egroup
 - **fcc-eos-admin-prod**: full permission (fccsw service account)
 - Area can only be written by Grid tools/jobs

ilcDIRAC and FCC

- **fcc** project now defined

- This works:

```
lxplus768:~ $ source /cvmfs/clicdp.cern.ch/DIRAC/bashrc
lxplus768:~ $ dirac-proxy-init -g fcc_user
Generating proxy...
Enter Certificate password:
Added VOMS attribute /fcc
...
Proxies uploaded:
  DN | Group | Until (GMT)
  /DC=ch/DC=cern/OU=Organic Units/OU=Users/CN=ganis/CN=393971/CN=Gerardo Ganis | | 2022/05/13 12:12
  /DC=ch/DC=cern/OU=Organic Units/OU=Users/CN=ganis/CN=393971/CN=Gerardo Ganis | fcc_user | 2021/04/14 11:33

lxplus768:~ $ export EOS_MGM_URL=root://eospublic.cern.ch
lxplus768:~ $ XrdSecPROTOCOL=gsi,unix xrdcp pippo.txt root://eospublic.cern.ch://eos/experiment/fcc/prod/pippo.txt
[5B/5B][100%][=====][5B/s]
lxplus768:~ $ ls -lt /eos/experiment/fcc/prod/
total 1
-rw-r--r--. 1 fcc001 fcc-cg 5 Apr 14 13:46 pippo.txt
```

- Basic workflow ‘generator + delphes_edm4hep app’ can be fully exercised

- Minimal documentation in preparation

EOS area management

- The hierarchy under `/eos/experiment/fcc/prod` is being defined

`/fcc/user/u/username`

`/fcc/[ee, hh, eh]`

- Following the discussion of the last meeting and the example of ILC a [proposal](#) has being drafted. For files we would have

`/fcc/<initial state>/<energy>/<final state>/<type>[/<detector>]/DiracProdID`

- Example: Ditaup with KKMC

- The Delphes files of a sample of ditau events at the Z pole, processed with the IDEA card during job with ID 12345 will stored under

`/fcc/ee/91gev/tautau/delphes/IDEA/00012345/`

- The corresponding generator files will be stored under

`/fcc/ee/91gev/tautau/mcgen/kkmcee/00012345/`

- Note that Complete metadata will be available from DIRAC through the unique identifier *DiracProdID*