Status of FCC@iLCDirac

André Sailer, Lorenzo Valentini

CERN-EP-SFT

FCC Software Meeting
September 25, 2023

Table Of Contents

Previously on FCC@iLCDirac

eurizon
European network
for developing new horizons for RIs

See presentation: **https://indico.cern.ch/event/1291761/#24-fccilcdirac**

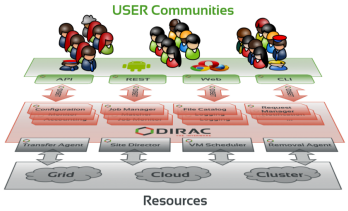
- Details about creating transformations for FCC

Dirac in a Nutshell

eurizon
European network
for developing new horizons for RIs

iLCDirac is based on the DIRAC interware originally developed for LHCb

- Dirac (Distributed Infrastructure with Remote Agent Control): High level interface between users and distributed resources
- Distributed Workload Management: one interface to execute anywhere: batch farms, grid computing elements, HPCs
- Data Management (file transfers, meta data augmented file catalog)
- High degree of automation
- Web interface for controlling jobs



diracgrid.org

iLCDirac v34 Released

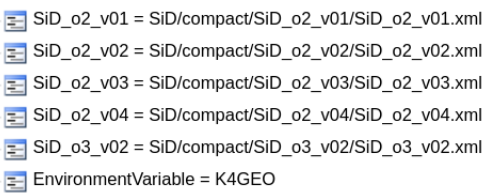
- New major version of iLCDirac v34, based on DIRAC v7r3, was released
  - Release notes: **https://ilcdirac-doc.web.cern.ch/releasehistory.html**
- It only supports Python3 and replaces the old Python2 iLCDirac client under `/cvmfs/clicdp.cern.ch/DIRAC/bashrc`
  - Other special Python3 installations were removed
- Main features: all FCC specific transformation scripts and developments are there now

FCC VO Resources Update

- Integrating Glasgow Storage Element (w. Albert Borbely): `GLASGOW-DISK`
- Integrating CNAF and Bari resources (w. Nicola De Filippis):
  - `CNAF-DISK` has been around for some time
- Fixed issue for accessing `CERN-DST-EOS` when one is a member of multiple VOs

Better support for Key4hep Nightlies

- Detector models from k4geo are now discovered based on the environment variable

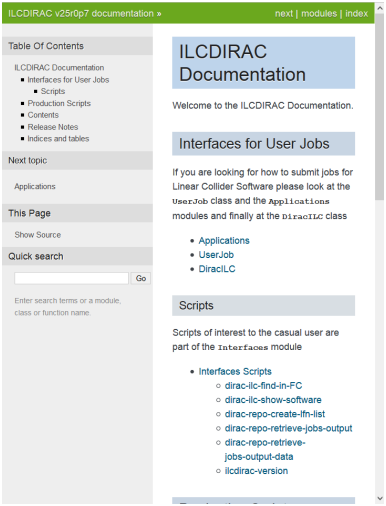


Under the Hood

- Preparing iLCDirac for DIRAC 8.0 and 8.1

Documentation

- http://lcd-data.web.cern.ch/lcd-data/doc/ilcdiracdoc/
- Information about commands (scripts) including options
- API, examples for all applications



Support

- In case of fire:
  1. Consult documentation:
     http://lcd-data.web.cern.ch/lcd-data/doc/ilcdiracdoc/
  2. Before submitting a ticket, see: http://lcd-data.web.cern.ch/lcd-data/doc/ilcdiracdoc/DOC/Files/UserGuide/support.html
  3. Submit a ticket to the issue tracker
     https://its.cern.ch/jira/browse/ILCDIRAC
     - See also “Report a Problem” buttons in web portal and documentation (it’s back!)
  4. Email: ilcdirac-support@cern.ch

Summary

- iLCDirac is ready to cover your big data needs
- Please let us know if something does not work
- Please let us know if you have resources for the FCC VO

Acknowledgments

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 871072

eurizon
European network
for developing new horizons for RIs

https://fccdirac.cern.ch