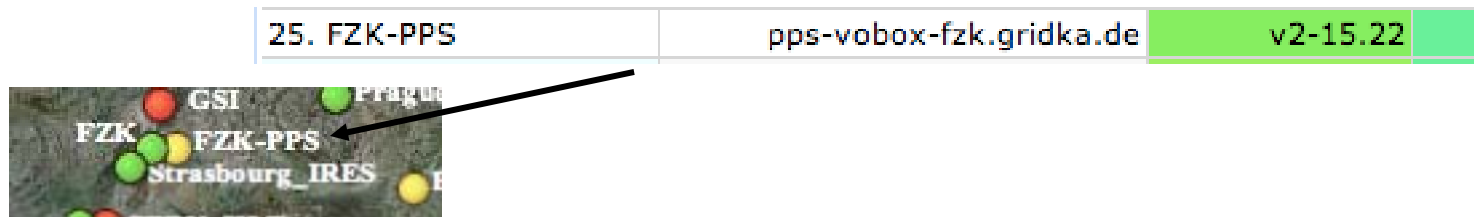# The CREAM CE Testing

ALICE TF Meeting

17/07/08

The Setup

- Infrastructure provided at FZK
  - Access to the CREAM CE
  - New Alice VOBOX provided by the site to perform these tests
- VOBOX fully configured from both, the WLCG and the Alice sites

The testing (I)

- **Testing the CREAM CE with the same LCG.pm module**
  - This forces the usage of the WMS also provided by FZK
  - Configuration problems within the WMS
    - Job arrives to the WN after passing through the WN.
    - Job begins to run into the WN and after a while it fails because compatible resources cannot be found
      - This is normally an initial message shown by the WMS when the matchmaking cannot be performed
      - Strange to be found one the job is already running

The testing (II)

- The reason seems to be the following:
  - The job starts on the WN
  - The job wrapper tries to download the input files from the WMS to the WN to start the actual user job via globus-url-copy
    - This transfer is hanging/failing. So the job runs into a wall time limit. After failing, the WMS does not find a resource where the job can run successfully and tells "no compatible resources found".

- Very good and long collaboration with Angela Poschlad (FZK) and Massimo Sgaravatto (INFN-Padova)

The testing (III)

- Let`s go without WMS
  - This will require changes into LCG.pm during submission time
  - CREAM CE works with delegated proxies
    - Actually this is the advantage of the system
    - Two delegated proxies procedures are available:
      - Ask for an automatic delegation of the credentials at submission time
      - Delegate a proxy before the submission and ask to rely in this proxy for further authentication procedures
    - This last procedure is highly recommended by the developers

The testing (IV)

- Following this procedure the 1st question appears
  - We already work with delegated proxies into the VOBOX
  - Is it enough to use this delegated proxy to submit to the CREAM CE?

The testing (V)

- The JDL file must change
  - The job agent jdl of Alice contains the attribute OutputSandbox
    - Containing the std.err and std.out of the job agent
  - Of this attribute is specified then the CREAM CE forces the existence of another attribute: OutputSandboxDestURI
    - Specify the gridFTP server where the files listed into the OutputSandbox have to be transferred at job completion
      - How to retrieve them to the VOBOX?
      - In purpose the gLite3.1 VOBOX is NOT longer running a gridftp server

More ....

- Testing directly the gridftp server of the WMS via globus-url-copy
- Creation the CREAM-UI configuration file to export it later to all sites
- The VOBOX will have to change to include the CREAM-UI
- LCG.pm pilot once tests finished at FZK