

## *Workload Managment meeting*

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# Workload Managment: news

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- We have a Workload Managment dedicated mailing list

[cms-ccs-wm@cern.ch](mailto:cms-ccs-wm@cern.ch)

- Today 12 people
- Join it!

- Dedicated web page

<http://cmsdoc.cern.ch/cms/ccs/wm/www/>

- Still empty...

Important/interesting issues we should address in the near future

In addition to those I have presented during CMS week (CCS and APROM meeting)

- gLite / EGEE

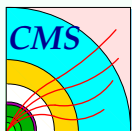
- Julia presented the actual status during CMS week (CCS meeting)
- She asked for some volunteer to test gLite functionality from CMS analyst point of view
- Feedback very important for further development and usage
- How gLite middleware matches with proposed workflow?
- Which new functionalities can we use (eg job splitting)

- Other very interesting presentation by LHCb concerning DIRAC, their tool to submit jobs to the grid
- Uses a complete different approach:
  - send “dummy” pilot jobs to WN
  - Pilot checks environment
  - if ok pull real jobs from a stack managed directly by DIRAC
- By-pass many LCG components
- It could be interesting to understand if this different approach (or a part of it) could be useful for us also

- Decision taken by PRS to have a “standard” CMS tree with information at level of AOD (so smaller wrt DST contents), for the next  $\sim 6$  months work
- Which are the implication for workload?
- Many user will run on tree and not on DST (or Digis)
- Some user will access DST/Digis anyway!
- Much depends on tree size:
  - If small enough to fit user HD, no problem for WM!
  - If not we should foresee root-batch analysis over the grid!
- In any case publication information of root tree(s) crucial (use PubDB? How?)
- Tree production can be seen as a standard analysis job: we can do it over the grid. Production team will be certainly involved in massive production.
- Must follow strictly scenario

- Not much experience on running Famos up to now
- Will be used by many people in the future!
- How a famos job looks like? How to run it on grid resources?
- Actual scenario (from Patrick J.)
  - Input `.orcarc` only. Event generation done internally (interface to generator)
  - Possible to start from cmkin ntuple or ORCA DB
  - Output histos and trees/ntuples OR DST (POOL)
  - Timing: goal  $\sim 1$  ev/s: depending on user just one interactive job or batch submission
- Situation not yet clear but we should follow it: it might well become an important use case

- Claudio wrote a document summarizing requirements:
- Scenarios:
  - Official code on proprietary resources (typical Production)
  - Partly private code on proprietary resources (typical Analysis accessing existing data)
    - Private code packed, shipped and deployed on top of pre-installed sw
  - Same for opportunistic resources (not CMS controlled) e.g. Famos, small/no input and small/simple output.
    - Pack. & deploy. in compact form: no external dependencies!
- Discussion going on usage of existing tool in above scenarios



# Today AGENDA



- Introduction SL
- Status report on RB-PubDB interface (Data Location Interface) Heinz Stockinger
- GridIce toolkit
  - infrastructure Sergio Fantinel
  - JAM (Job Application Monitoring) Giacinto Donvito
- PubDB developement Alexei Filine
- RunJob and Data Processing Service Greg Graham
- GRAPE for analysis: status Federica Fanzago