

Notes from the FSP-CMS Computing Team Phone Meeting August 30th, 2010

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Participants:

RWTH: Thomas Kress

KA: Daniel Martschei, Fedor Radnikov, Guenter Quast

UHH: Hartmut Stadie

DESY: Birgit Lewendel, Christoph Wissing [Protocol]

Guests: Marian Zvada (KA), Andreas Oehler (KA)

Slides of status reports can be found on the following indico page:

<https://indico.desy.de/conferenceDisplay.py?confId=3354>

1.) HappyFace User Space Monitoring

- * Actual space monitor ready and stable since months
- * E-mail notification
 - Technically ready
 - Still a few performance issues, to be addressed by Matthias Edelhoff
 - Present frequency (2h) can be reduced easily
 - Final mail templates to be agreed on, but suggested ones basically o.k.
- * General issue: Need group/institute space for "power users" (s. also later)
- * Can be announced during FSP-Meeting

2.) D-Grid/National Resources at GridKa (NRG)

Status report by Armin/Andreas linked on the agenda page

- * Good progress and our suggested implementation (almost) in place
- * First serious user testing still in September
- * Documentation in preparation - first review by Support team
- * "D-Grid d-Cache" instance
 - Hosts national disk space (~100TB for CMS)
 - Adding a Phedex endpoint would be easy (almost done)
[would allow replication of data-sets from T1 to NRG]

3.) Preparation of the FSP Computing contribution

3.1) Usage of German resources and projected future usage

- * Cover ICHEP activity (=4 week before the conference) - 500 nb-1
- * Attempt to project this to the future with 5pb-1 to 10pb-1 end of 2010
 - Highly non-trivial - resources cannot scale with lumi directly....
- * Metrics to collect (all 4 week before ICHEP)
 - DCMS jobs slots used at each site
 - DCMS CPU/Wall time used at each site
 - NAF jobs run - split by institute
 - NAF CPU/Wall time used - split by institute
 - Data volume imported via Phedex
 - Growth of user space
- * Present some examples of ICHEP result mainly obtained on German compute resources
 - Collectors: Hartmut (HH), Christoph(DESY), Guenter(KA), Thomas(AC)

3.2) User and institute spaces

- * Some power user well above 2TB storage in user area
 - Most stuff used also by others -> should be in some "institute space"
- * Institute space
 - possible location /store/group/<institute-name> (details to be defined)
 - Some budget of ~30TB per institute (3x AC, DESY, KA, UniHH)
 - Would require ~100TB on each T2, assuming equal distribution
 - AC can provide the space soon, DESY not that soon
- * A bit of controversial discussion, what is D-CMS storage
 - DESY hosts >160TB "local" data transferred via Phedex
 - AC seems to need more space for local stage than for additional data sets
- * Current and projected space situation to be evaluated again
 - Present usage
 - Situation in view of new CMS requests (100TB central space + 75TB per PAG)

- What can be provided as D-CMS storage then in 2011
- * Happy Face monitoring would need an extension to sum /store/group/<institute> and data-sets transfered via Phedex
 - Difficult: Phedex stuff sits in /store/mc|data
 - USA sites "flag" the requests in the Phedex comment and do some parsing

4.) AOB

- * Support for D-CMS
 - A support unit should be kept also in NGI-DE although not frequently used
 - We want keep the CMS colleagues from CH and PL included
 - Will be "requested" in TAB (mid of October)
 - German FSP support list could be member of this support unit
- * F2F meeting on Friday September 10th during FSP workshop in Aachen