

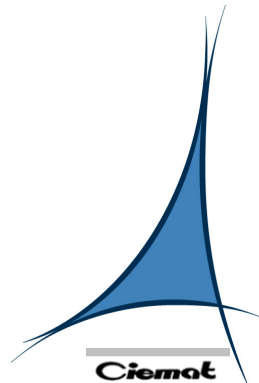
# WLCG monitoring consolidation

## *Input from Operations*

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- WLCG Ops Coordination helping in collecting feedback from sites to the WLCG Monitoring Consolidation project
- A mailing list (*egroup*) list was created last week and asked site experts to join it:

<https://e-groups.cern.ch/e-groups/Egroup.do?egroupId=10098670>

→ As of today: 28 members

- asked the members to have a look into the functionality of the monitoring systems, according to the list compiled in:

<https://twiki.cern.ch/twiki/bin/view/LCG/InitialStatus>

- Not much interaction yet, we do expect to provide more feedback as soon as discussions evolve. So far:

- myWLCG vs SUM vs nagios
- The use of High level views
- Personalized dashboard?
- Perfsonar-PS monitoring
- Data Transfer Monitoring: FAX, AAA, WLCG Transfer Monitoring

- There might be the fear that **experiment SAM tests** - used to calculate availability/reliability – should be improved, as they could not represent the real efficiency of the experiments

- Maybe the concept of site *Usability* should come in

- Maybe the SAM jobs should rather be submitted using the same underlying technology used to submit the pilots (e.g. Condor-G)

- It is quite clear sites treat the SAM tests in a way so they give to them higher **priorities** to enter into the farm. If not, a site should never be marked "unavailable" or "down"

*"jobs correctly waiting to run in the queue" is not the same as "down"*

- Sites normally feed experiment SAM tests to their **local Nagios** monitoring/ alarming systems and they configure own alarms according to site's policies

- Sites prefer all of the e-mail notifications to arrive through their local Nagios instances, where they put all of the logic for their notifications
  - Being subscribed to e-mails from other tools, such as SSB or others, is not seen effective to notify sites about problems (seen as a *complement*)
  - The experiments should provide all the relevant information via Nagios
- In general, sites find much more useful to dig into SAM test history and problems through experiment SUM dashboards [1], rather than myWLCG [2]:

[1] SUM (atlas): <http://dashb-atlas-sum.cern.ch/dashboard/request.py/latestresultssmry-sum>

[2] myWLCG: <http://grid-monitoring.cern.ch/mywlcg>

# High level views and personalized views

- **GridMap [3]** reports in a grouped way myWLCG results; **SiteView [4]** is a similar concept but reports results from the experiments dashboards.

- Sites can understand the appeal of an high level view but there is no high use... too many clicks to reach to the info, when you see a 'red'

[3] <http://grid-monitoring.cern.ch/mywlcg/gridmap/>

[4] <http://dashb-siteview.cern.ch/templates/siteview/index.html>

- Personalized dashboard (Netvibes widgets):

<https://twiki.cern.ch/twiki/bin/view/ArdaGrid/DashboardMashup>

- This might be interesting. Not much publicized... Is it maintained?

# Network and transfer monitorings

- **Perfsonar-PS**: not in the WLCG monitoring pool, however it helps sites to know on the health of the network system. The Perfsonar-PS project is really active in its deployment

- The tools is used quite a lot to debug sites network problems

- Current monitoring is being improved. Could it be WLCG integrated (natural)

- Data Management Monitoring tools: **xrootd** accesses via **FAX(ATLAS)** and **AAA(CMS)**, while **WLCG transfers dashboard** collects other transfer protocols and VOs

- Sites are interested to know on all of the transfers, by protocol and for all of the VOs (not only LHC). Should FAX & AAA → WLCG transfers dashboard?

- Sites have their own tools for network monitoring, but these tools are seen as very good and promising complements