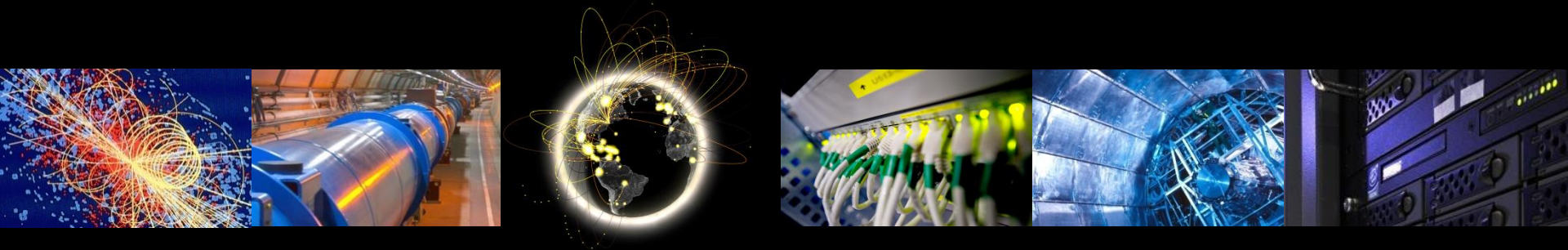# WLCG Operations Coordination report

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With input and on behalf of
the WLCG Operations Coordination team

2015/05/13

Outline

- Two months passed since the last such report at the GDB, due to the Okinawa Workshop & CHEP.
- So, these news cover the March 19th, April 2nd, April 23rd (virtual) and May 7th WLCG Operations Coordination meetings. Minutes' index here.
- Tier-0 news
- Experiment reports
- Status of Task Forces & Working Groups
- Other news
- Last word on the Site Survey
- Conclusions

Middleware news

- StoRM v.1.11.8 is now installed everywhere after MW Readiness testing by QMUL.
- Many dCache versions made available in these last 2 months:
  - 2.10.24 verified by the MW Readiness WG.
  - 2.12.5 announced as Golden Release.
  - Reminder: End of June=End of support for v.2.6.x.
- An openssl security fix was announced on March 19th. Luckily, it wasn't affecting WLCG.
- ARGUS PAP 1.6.2, followed by 1.6.4 were announced in this period to fix blocking issues linked with the Java upgrade.
- FTS3 v.3.2.33 is now available for better REST API performance & memory usage.
- Torque sites should upgrade to version 2.5.13, or downgrade IF they have a problem with version 4.2.10, which was found not compatible with the standard EMI torque installation.

Tier-0 news

- Since May 4th a batch HTCondor pilot (96 CPUs, 2 ARC CEs) is available for grid submission. Atlas and CMS are starting to use it. Other interested experiments, contact the Tier-0 managers.

- Batch overload is the most probable reason for CERN's low WLCG availability figures in March for Atlas and CMS. Argus failures/overload should also be investigated.

Experiment news

- ALICE
  - High activity through-out this reporting period (2 months).
  - Taking advantage of opportunistic resources.
  - Started automatic replication to the Tier-1s, mid-March.
  - Most VOBOXes now moved to RFC proxies.
  - CASTOR instabilities at CERN observed multiple times.
- ATLAS
  - Data taking (cosmics, 1beam...) ongoing. Data replication setup and commissioned
  - Experienced network degradation at/between some sites (CERN, Triumf-RAL).
  - Reminder: All ATLAS sites should provide multicore resources.
  - Rucio/FTS issue causes few missing files due to race condition when job submission killed and retried.
  - Doubled the job length to improve CPU/WALLCLOCK ratio of the jobs and to minimize the draining of the resources at the sites
  - Getting ready for Run-2, Computing Run Coordinator shifts started and the GGUS ALARMs' workflow being verified.

- CMS
  - Work with cosmics and MC.
  - After the vomrs switch-off, voms-admin asked all the VO members to re-sign the AUP.
  - Experienced, temporarily, some problems with various services (EOS, squid, CASTORs, some CEs).
  - Experienced network saturation on busy weeks.

- LHCb
  - Stopped writing into LFC on May 11th. The LFC will stay in read-only mode until June, it will then be decommissioned by the Tier-0 service managers.
  - Data access problems experienced with SARA. Network problems reported for RAL.

Task Forces (TF) news I

- ## gLExec Deployment
  - Testing campaign for gLExec in PanDA on-going. The sites with gLExec are 61 out of 94.

- ## SHA-2 Migration TF
  - The old VOMS server aliases (lcg-)voms.cern.ch were removed on Tue Apr 28th. All due publicity was made. This completes this TF's work. Thanks for this long and hard effort!

- ## RFC Proxies
  - RFC proxy readiness to be followed up per experiment:
    - ALICE done (being used at almost all sites where this matters)
    - CMS users are using RFC proxies since months
  - SAM-Nagios proxy renewal code fix to support RFC proxies, maybe no longer needed after SAM upgrade to UMD-3 (the latest VOMS client enforces the correct proxy type automatically).

- ## Machine/Job Features
  - Started working with UK on deployment of MJF on batch system infrastructures. Also contacted other sites, still low priority issue for them.

Task Forces (TF) news II

- **Multicore Deployment**
  - New memory schemes for memory parameters passing to the batch systems were tested for ARC-CE/HTCondor & CREAM sites in the UK.
- **IPv6 Validation & Deployment TF**
  - FTS3 testbed operational with servers at KIT and Imperial College.
  - Many sites activated IPv6 on the LHCOPN & LHCONE.
  - OSG is testing glideinWMS with IPv6. Observation: they run squid2 but only squid3 is IPv6 compliant.
  - LHCb tested IPv6-compatible DIRAC and discovered a CERN python lib that returned a wrong IPv6 address, hence 50% of client connections failing.
- **Squid Monitoring and HTTP Proxy Discovery**
  - NTR
- **HTTP Deployment:**
  - The kick-off meeting took place on April 29th to agree on Mandate, priorities, methods, documentation. Agenda here.

Working Groups (WG) news I

- **Middleware Readiness**
  - Two meetings took place since the last such GDB report, on March 18th & on May 6th (minutes).
  - After one year of full Readiness Verification activity, the WG is making a check-point of goals and priorities.
  - ATLAS and CMS were invited to review their workflow twikis for possible changes in the MW products to verify.
  - LHCb and ALICE are invited to declare if and for which products they plan to contribute to the MW Readiness WG.
  - The pakiti client is available for reporting the rpms under verification by the Volunteer sites. Installation instructions here.
  - Another application is being developed to offer an automated way to display Baseline versions instead of the current, manually updated, table.
  - All this is possible thanks to the dedication of the MW Officer, the quality code of our pakiti expert &, above all, the active participation of the Volunteer sites.
  - The next vidyo MW Readiness WG meeting will take place on Wednesday June 17th at 4pm CEST

WG news II

- ## Network and Transfer Metrics WG
  - The WG held 3 meetings in this reporting period, on March 18th, April 8th & May 6th.
  - All WLCG sites to make sure they run PerfSONAR toolkit v.3.4.2-12.pSPS & have NDT/NPAD disabled & auto-update enabled.
  - A network performance follow-up procedure was put in place. Document [here](#).
  - FTS performance study integrated in the WG.
  - Preparing a dedicated GGUS Support Unit, for network issues, clearly showing the distinction from the existing ones: "Network Operations" & "WLCG PerfSONAR Support".
  - Next meeting: June 3rd at 4pm CEST.

Other news

- A presentation on Data Preservation activities was given at the April 2nd WLCG Ops Coord meeting. Slides here.

- EGI, in a presentation given at the May 7th WLCG Ops Coord meeting, confirmed that CentOS7 is not yet a viable option for sites, but many products are ready for it and more will be in the coming months. Slides here.

- There were 2 GGUS Releases since the last such GDB report, on March 23rd & April 29th. Release notes here. Next release on June 24th (no May release!)

A last word on the Site Survey

- This was the first time a survey of this amplitude was launched in the 10 years of WLCG.
- It was also the first and most significant occasion to collect feedback from the Tier2 and Tier3 sites, with which meeting opportunities are not as frequent, as desired.
- The WLCG Ops Coord Team is grateful to the site managers for their detailed feedback.
- Detailed presentations were given in Okinawa. All details here.
- The results analysis showed possible areas of improvement, including:
  - The reduction and simplification of services deployed at sites (to be followed-up with MW providers).
  - The documentation quality & ease of retrieval (an operations portal).
  - The information exchange within the community.
  - The adoption of common solutions & industry standards.
- The WLCG Operations team will have to define and implement a roadmap describing all these measures in detail in order to optimise the WLCG operational cost.

Conclusions

- Cost Optimisation conclusions deduced by the Site Survey presented at Okinawa and written in the relevant CHEP paper.

- Next meeting on May 21st at 3:30pm CEST.

WLCG
Worldwide LHC Computing Grid