



WLCG Service Report

6 weeks, Aug 16 – Sep 26

WLCG Management Board, Sep 26th 2017

Katarzyna Dzedziniewicz-Wojcik
CERN

v1.6

Operations Coordination meetings

- These meetings normally are held **once** per month
 - Usually on the first Thursday
- Each meeting has a **standard agenda** plus at least one **dedicated topic**, announced in advance
- Experiments and sites are kindly asked to have the **relevant experts** attend, depending on the topic(s)
- Next meeting:
 - Oct 5 – Providing reliable storage

Operations Coordination highlights (1)

- CVMFS stratum-1 configuration changes
 - The stratum-1 server ports for *cern.ch* repositories have been changed to 8000 in the EGI configuration repository
 - Other repositories already use port 8000 by default
 - ASGC stratum 1 started to block port 80 by default because of DDoS attacks
- Theme: Providing reliable storage
 - This time CNAF presented best practices, questions and wishes
 - More such contributions are planned

Operations Coordination highlights (2)

- Data transfer monitoring
 - New dashboards are part of MONIT migration
 - Dashboards can be created and customized
 - Rules can be created for alarming
 - To be available this week
- Accounting TF
 - CERN accounting for CMS shows low efficiency that needs investigation

Operations Coordination highlights (3)

- IPv6 Validation and Deployment TF
 - T2 deployment campaign in preparation
 - GGUS support unit for IPv6 has been created
- Middleware
 - CentOS 7 WN available in UMD 4.5

Selected items from Operations (1)

- Overall high activity across the experiments
- ATLAS
 - 350k jobs running, 700k peaks using NERSC_Cori
 - Technical Interchange Meeting last week
 - Number of technical discussions on HPC, Singularity and data access
 - CERN: many jobs failing due to Python issue in one WN (GGUS:130139)
 - CERN: Central Monitoring backlog (GGUS:130354)
 - Transfer failures at RAL-LCG2-ECHO due to Ceph bug (GGUS:130138)
 - ~20k files were lost
 - Overlay job concurrency was raised to 1600. Frontier service stability is monitored.

Selected items from Operations (2)

- CMS
 - Heavy data transfer and staging activities
 - Issues encountered at T0 and various T1 sites
 - CERN EOS issues are now resolved
 - PhEDEx connection timeouts from T0 ([GGUS:130363](#))
 - Partially unplanned staging campaign overloaded CNAF tape robot ([GGUS:130211](#))
 - CMS EOS out of Data Federation ([GGUS:130459](#))
 - CPU efficiency of pilots being investigated
 - Improvements implemented

Selected items from Operations (3)

- ALICE
 - No major issues
- LHCb
 - CERN: **Alarm** ticket for EOS transfers failing (GGUS:130137)
 - CERN: python installation broken on multiple WN (GGUS:130018)
 - Failed transfers from IC to SARA due to IPv6 issue (GGUS:129946)
 - CERN: **Alarm** ticket because of VOBOX being down (GGUS:130183)

Selected items from Operations (4)

- CERN
 - Network incident: 1 of 3 parallel 40GE ports corrupted packets for the Ceph service (OTG:0039608)
 - Many high-level services affected
 - FTS link optimizer overloaded by unplanned very high number of transfer submissions by ATLAS
 - Performance improvements being investigated
 - Oracle cloud resource project in openlab
 - 10k cores for 2 months
 - Reusing components from preceding cloud projects
 - Already used by ALICE, other experiments will follow
 - Storage
 - EOSALICE was upgraded to Citrine release

Selected items from Operations (4)

- Networks
 - IPv6 issue between IC and SARA ([GGUS:129946](#))
- CNAF
 - Tape robot overload due to unintended staging of many small files by CMS
 - One robot arm broke and was out for a week
 - IPv6 will be enabled for all experiments next month
- NDGF
 - 1 dCache pool for ALICE down, 70 TB being rescued
- NLT1
 - SARA SRM down for 11h due to network switch
- RAL
 - ~20k ATLAS files lost due to Ceph bug
 - CMS filled their CASTOR disk
 - Frontier host reboots after overload by ATLAS jobs

Service Incident Reports

- None

GGUS summary (6 weeks Aug 14 – Sep 24)

VO	User	Team	Alarm	Total
ALICE	7	3	0	10
ATLAS	10	107	0	117
CMS	224	1	0	225
LHCb	1	38	2	41
Totals	242	149	2	393

