



WLCG Service Report

6 weeks, Dec 8 – Jan 19

WLCG Management Board, 19th Jan 2016

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v1.1

Operations Coordination highlights (1)

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

- Operations Coordination team changes
 - Andrea Sciabà and Pablo Saiz have moved to new activities and are thanked for their contributions!
 - The current chairs are:
 - Alessandra Forti
 - Maria Alandes
 - Maria Dimou
 - Pepe Flix
- Workshop for HTCondor and ARC CE users in Barcelona Feb 29 – March 4
 - <https://indico.cern.ch/e/Spring2016HTCondorWorkshop>
 - Overlaps with the ATLAS software week

Operations Coordination highlights (2)

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

- BDII slapd crashes: RedHat did **not yet** release the openldap fixes that we tested successfully
 - Foreseen for RHEL 6.8, release date to be announced
 - RedHat also agreed to release the fix in CentOS/EL7
- Globus GSI change: 2 tickets for new service certificates were still open
 - CNAF largely done, FNAL solved on Jan 22
- Reminder: EGI set **April 30** as deadline for the **decommissioning** of **SL5** services
- Middleware Readiness
 - Inclusion of gfal2-util testing on the WN

Operations Coordination highlights (3)

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

- CERN: steady ramp-up of HTCondor resources
 - 96 kHS06 out of a total of 784 kHS06 on Jan 7
- ASGC: CASTOR decommissioned
- Multicore accounting
 - EMI3(WLCG), Tier1 and Tier2 views in the portal include cores
 - EGI view does not (yet)
 - ATLAS working on comparison of Dashboard and APEL accounting records
- Memory limits management in batch queues
 - <https://twiki.cern.ch/twiki/bin/view/LCG/BatchSystemsConfig>
 - Sites are asked to report their recipes
 - Tickets were opened for CERN and T1 and had good response

Operations Coordination highlights (4)

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

- Information System evolution
 - Proposal for a new WLCG InfoSys presented in the Dec GDB
 - Good discussions on definitions of benchmarks and computing capacities
- HTTP deployment
 - ETF Nagios monitoring running for ATLAS and LHCb
 - First set of tickets opened for ~20 sites
- Network and Transfer Metrics
 - Stable perfSONAR operations
 - LHCb DIRAC bridge available
- Machine/Job Features
 - 2nd and 3rd draft of the HSF technical note

Selected items from Operations (1)

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

- **Successful** conclusion of the heavy-ion data taking
- **High activity** before, during and after the end-of-year break
- **ALICE**
 - CASTOR disk servers were consolidated into a single pool for convenient use of all resources
 - High-memory arrangements for heavy-ion reconstruction were undone because not needed
 - CASTOR transfer manager got stuck a few times, blocking file accesses
 - Developers added more debug info
 - Instabilities due to EOS being close to full (mitigated)

Selected items from Operations (2)

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

- ATLAS
 - Network problem between EU and Canada Jan 11-13
 - [GGUS:118730](#) and [GGUS:118748](#)
 - Handled by WLCG Network Throughput support unit
 - Large amount of dark data created over the end-of-year break
 - Cleanup campaign ongoing
 - 2015 p-p reprocessing (~1.8 PB raw input data) almost completely finished during the end-of-year break
 - In the past comparable campaigns took 4-6 weeks
 - Several FTS issues, see next page

Selected items from Operations (3)

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

- FTS incidents
 - Expired CRLs at BNL cured by "service httpd graceful" cron job
 - Overload and timeouts due to large staging activities for ATLAS raw data
 - Fixed as of 3.4.0
 - On the CERN pilot instance since mid Dec
 - REST MySQL interface bug led to small data loss for ATLAS
 - Developers advised service managers to change a MySQL configuration setting
 - Done at BNL, CERN and RAL

Selected items from Operations (4)

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

- CMS
 - Heavy-ion data taking pushed storage, transfers and reconstruction to their limits
 - CMS Tier 0 computing could only use a fraction of its quota (GGUS:118546)
 - OpenStack issue to be fixed upstream
 - Issues in accessing heavy-ion data on some Wigner machines (GGUS:118082)
- LHCb
 - Steady data processing, no major issue
- OSG
 - Transition from OSG CA to CERN CA in place for US ATLAS

Selected items from Operations (5)

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

- dCache: serious bug discovered by NDGF after upgrade
 - Large number of files became cache copies, i.e. could normally have been erased without penalty
 - Bug was introduced already in Jan last year, affecting 2.12, 2.13 and 2.14
 - NDGF lost ~17k files, mostly of ATLAS
 - A few T1 and other sites were potentially affected
 - Depending on DB flavor, deployment and operations
 - Advisories were sent by dcache.org and WLCG MW Officer
 - <https://twiki.cern.ch/twiki/pub/LCG/WLCGBaselineVersions/dcache-bug.txt>

Service Incident Reports

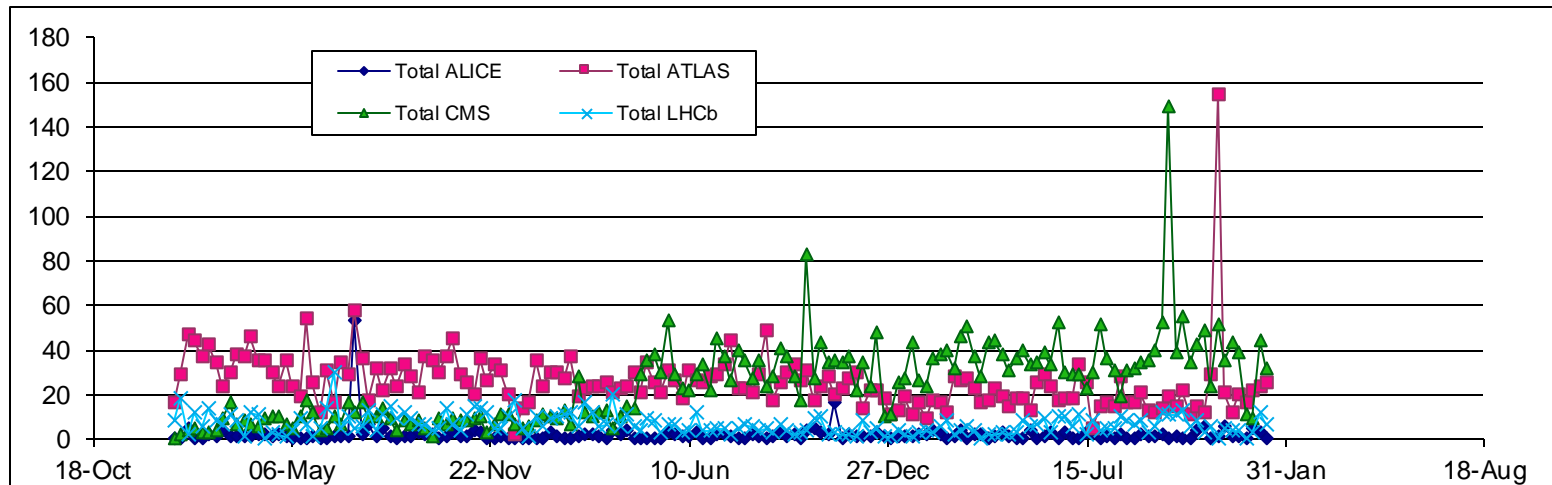
<https://twiki.cern.ch/twiki/bin/view/LCG/WLCGServiceIncidents>

- None

GGUS summary (6 weeks 7/12/15 - 17/1/16)

by Pablo Saiz

VO	User	Team	Alarm	Total
ALICE	5	4	1	10
ATLAS	40	79	0	119
CMS	173	4	1	178
LHCb	11	18	1	30
Totals	229	105	3	337



Significant events

- Release on the **9th of Dec**
 - New Support Unit: WLCG HTTP Deployment
 - Updated documentation of Ticket Categories
 - Minor changes in the UI
- Next release scheduled for **27th Jan**
- 3 alarms for CERN:
 - [ALICE Castor](#) (18th Dec)
 - [CMS Openstack](#) (8th Dec)
 - [LHCb FTS](#) (18th Dec)