



WLCG Service Report

5 weeks, Aug 16 – Sep 20

WLCG Management Board, 20th Sep 2016

Luca Mascetti
CERN
v 0.6

Operations Coordination highlights (1)

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

- **New accounting portal with WLCG view ready for validation:**
 - <https://accounting-next.egi.eu>
 - Feedback to wlcg-accounting-portal@cern.ch
- **Regular Monitoring Consolidation WG and Traceability WG reports available in the Operations Coordination meeting**
- **Presented EL7 plans from experiments (see next slide)**
 - Site plans to be collected by WLCG Operations
- **Next Operations Coordination meeting 29 September**

Operations Coordination highlights (2)

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

CentOS7 – Experiments plans and info for sites (1)

- Challenges of CentOS7 migration
 - Time for feedback on EL7 for bug fixes and missing functionality is now!
 - Unprivileged mount namespace **rejected** for CentOS 7.3
 - Because of **security concerns** that needs more investigation
 - Will be asked again for CentOS 7.4 next year
 - To allow pilots to create fully functional containers for payloads
 - Without the needs for a setuid-root helper utility
 - **Full MW stack** should be all **available in CentOS7** by end of 2016
 - Only few packages missing

Operations Coordination highlights (3)

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

CentOS7 – Experiments plans and info for sites (2)

- ALICE
 - Ready to run on CentOS7
- ATLAS
 - SW built on SL6 being tested on CentOS7
 - SW built on EL7 being tested on CentOS7
- CMS
 - Not possible to run SL6 binaries on CentOS7
 - SW built on EL7 but not tested
 - Container solution is being investigated
- LHCb
 - SW built on SL6 successfully tested on CentOS7

Operations Coordination highlights (4)

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

CentOS7 – Experiments plans and info for sites (3)

- Official timeline announced by WLCG to move to EL7
 - Is after Run 2 has ended
 - This needs to be reassessed!
- Many sites need to buy new HW and want to move directly to EL7
 - A virtualization infrastructure is not an option for every site

Selected items from Operations (1)

CERN

- **Issues with links connecting Geneva and Wigner**
 - Aug17th ~15min, Aug 26th ~7h, Sep 3rd ~26h, Sep 16th ~2h
 - Impacting EOS performance (mainly CMS & ATLAS)
 - Reconfiguration recipe in place to cope with these situations
- **Recurrent instabilities in the monitoring infrastructure**
 - Experienced both by ATLAS and CMS
 - Suggestion by SCODs to keep track of all cases via GGUS tickets
 - Monitoring team joins weekly operation meeting and report on the follow up
- **Upgrade of two LCG distribution routers (~7min reboot)**
 - Loss of connectivity for LCG services in the vault
- LSF instance for public batch reached its supported limit (5000 nodes)
 - Further capacity increase in HTCondor pools
- The External Cloud resources (T-Systems) 4000 cores processed jobs from all LHC experiments

Selected items from Operations (2)

JINR

- **Lost main and backup link to Moscow** on 28th Aug affecting all experiments

NL-T1

- **SARA testing a network failover** to prepare datacentre move
 - Datacentre move planned for first two weeks of October

PIC

- **Network upgraded** from 10Gbit/s to 20Gbit/s

KISTI

- the CRL of the **KISTI CA expired** on Fri morning CEST
 - no new jobs could be submitted and the site **gradually drained**
 - the CA was contacted and the CRL got **fixed** on Sat

Selected items from Operations (3)

ATLAS

- Lower activity in the grid in mid-August, then back to normal utilization
- Tested Grid spillover for Tier-0 jobs

CMS

- Successful data taking with high logging rates
- Using the same pilot at all sites
- Large disk cleaning campaign finished, tape ongoing
- Found issues with IPv6 in the AAA xrootd federation
 - Experts mitigate the issue with a workaround

ALICE

- Very high activity
 - New record of 110636 concurrent jobs
- ALARM ticket for CERN CREAM/LSF not working for ALICE from 15th Sep ([GGUS:123929](#))
 - Caused by LSF instabilities affecting also the BDI

LHCb

- High activity
- ALARM ticket for Vobox inaccessible at CERN due to hypervisor issue ([GGUS:123484](#))
- CERN LSF CEs were down for ~30+ hours from 15th Sep morning

GGUS summary (5 weeks 15/8/2016 – 17/9/2016)

VO	User	Team	Alarm	Total
ALICE	3	2	1	6
ATLAS	20	76	0	96
CMS	149	1	0	150
LHCb	3	26	1	30
Totals	175	105	2	282

