



WLCG Service Report

5 weeks, Feb 14 – March 21

WLCG Management Board, 21st March 2017

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CERN

v1.0

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 April 6:
 - HTCondor accounting work at PIC

Operations Coordination highlights (1)

- Lessons learned from ATLAS tape usage tests
 - Follow up via FTS steering group
- “Mid SLA” computing resources
 - Gain experience at CERN during the next months
- MJF deployment to be ramped up at least for LHCb
- WLCG workshop June 19-22 in Manchester
 - Agenda being prepared
- Data Management steering group kick-off meetings
 - Mandate, tasks and priorities being finalized
- PIC is developing an APEL parser for HTCondor

Operations Coordination highlights (2)

- CentOS/EL7
 - ALICE, ATLAS and LHCb can run on it today
 - CMS: OK if *Singularity* is provided as well
 - To allow the pilot to provide an SL6 environment to the user payload
 - The latest version is available from the WLCG rpm repository
 - EMI WN and UI meta packages are planned for UMD 4.5 to be released in May
 - Provisional versions available from EGI community preview repository

Operations Coordination highlights (3)

■ Singularity

- An easy CLI tool to launch containers and run commands in them
- Currently needs to be *setuid root* for *mount namespace* functionality
- That requirement is expected to be lifted, tentatively as of RHEL 7.4
- 15 OSG sites using it in production for OSG VO
- Deployed at US-CMS T2 sites to be used instead of *gLExec*
- See ATLAS mini workshop on containers
- See workshop on containers at ISGC

Selected items from Operations (1)

- Mostly high activity across the experiments
 - Final preparations for Moriond 2017
- ATLAS
 - Reprocessing campaign for 2016 and 2015
 - ~7 PB pre-staged from tape
 - Tape staging tests
 - Timeout configuration values improved at several T1
 - High load at CNAF came close to a DoS
 - Frontier instances suffered from high loads and central configuration error
 - **Alarm** tickets for BNL (GGUS:126727, GGUS:126749)
 - FTS MySQL database unrecoverable due to crash
 - ATLAS activity shares restored with help from FTS devs

Selected items from Operations (2)

- ALICE
 - New version of AliEn checks and logs WN CVMFS status
 - Low activity on a few days due to major issues affecting the central services
 - **Alarm** ticket GGUS:127202 for CERN
 - Job submissions stopped due to Argus service problem
 - CASTOR overloaded by reco jobs at CERN and T1 sites
 - Cured by limiting concurrent transfers + request queuing
- LHCb
 - **Alarm** ticket GGUS:126874 for CERN
 - Many AUP signature expirations due to VOMS-Admin bug
 - Other experiments also affected
 - Tape systems loaded by data stripping campaign
 - Severe disruption of the production management system over the weekend due to database issues
 - CERN: jobs unexpectedly killed because of memory contention (GGUS:127148)

Selected items from Operations (3)

- Monitoring
 - Several incidents affected ATLAS and CMS
- Middleware
 - Xrootd v4.6.0 affected by 2 important issues ([463](#), [465](#))
 - Should be fixed as of v4.6.1
- FTS
 - Failures after gfal2 library update ([OTG:0036193](#))
 - Affected transfers from CASTOR/StoRM SRM to GridFTP with checksum enabled
 - Cured by downgrade at CERN and RAL
- Security
 - CVE-2017-6074: high risk vulnerability in Linux kernel DCCP module

Selected items from Operations (4)

- CERN
 - External AFS disconnection test mostly OK
 - Many DB instances moved to new HW
 - Big network interventions on March 15 had no major impact
 - 20k additional cores deployed in the HTCCondor cluster
 - LHCOPN/ONE routers update to fix vulnerability (OTG:0036544)
- OSG
 - OSG BDII will be decommissioned April 4

Selected items from Operations (5)

- BNL
 - FTS now dual stack
- KIT
 - CREAM CEs retired
 - ARC CE performance issues under investigation
- NLT1
 - SARA network issues cured by Juniper Qfabric restarts
- PIC
 - dCache upgraded to 2.16

Service Incident Reports

- None

GGUS summary (5 weeks Feb 13 – Mar 20)

VO	User	Team	Alarm	Total
ALICE	3	4	1	8
ATLAS	46	85	2	133
CMS	139	6	0	145
LHCb	2	42	1	45
Totals	190	137	4	331

