

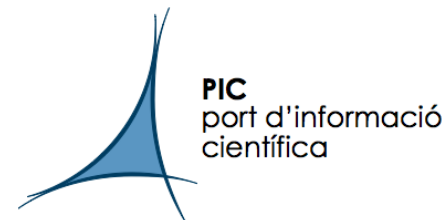
WLCG Ops Coordination [GDB Report]

Josep Flix (PIC/CIEMAT)

On behalf of the WLCG Operations Coordination Team

GDB – CERN

[11th February 2015]



News highlights

- **Nicolò Magini** is moving on: **thanks for the work done!**
- **WLCG site survey** is officially closed
 - ▶ ~100 sites replied: Many thanks!
 - ▶ Answers are being analysed → A summary at the next GDB
- **WLCG Workshop in Okinawa: 11th/12th April 2015** [BOOK NOW ▶](#)
 - ▶ Register through <http://chep2015.kek.jp/>
 - ▶ The final agenda is available in: <http://indico.cern.ch/event/345619/>

Saturday, 11 April 2015		Sunday, 12 April 2015	
09:00 - 18:00	WLCG Status and Operations	09:00 - 18:00	Computing at the HL-LHC timescale
09:00	WLCG security 40' <i>Status and future of authentication, authorisation, identity federations and privacy issues</i>	09:00	Experiment computing models at HL-LHC 2h0'
09:40	Networking in WLCG 40' <i>CERN+Wigner network, LHCOPN, LHCONE, IPv6, SDN, ...</i>	11:00	Coffee Break 20'
10:20	Database services during Run2 30' <i>Role of relational and non-relational databases, DBoD, ...</i>	11:20	Hardware technology trends 30'
10:50	Coffee break 20'	11:50	Resource provisioning 40'
11:10	Optimisation of operational costs 30'	12:30	Lunch break 1h30'
11:40	WLCG monitoring 25'	14:00	OSG plans 30'
12:05	Batch systems 25'	14:30	Operational model 35'
12:30	Lunch break 1h30'	15:05	Software evolution 45' <i>HEP software foundation, etc.</i>
14:00	Experiment session 2h0'	15:50	Coffee break 20'
16:00	Coffee break 20'	16:10	Discussion 1h50'
16:20	Cloud and volunteer computing 40'		
17:00	TBD 30'		
17:30	Discussion 30'		

Middleware: highlights

■ Baselines

- ▶ New version of **FTS 3.2.31** released and installed @ RAL, BNL and CERN
- ▶ New **frontier/squid 2.7.STABLE9-22.1**: sites notified through *frontier-talk*
 - ▶ It is a security update, but there is not a big risk → it is only a DOS for squid3
 - ▶ Upgrade is recommended for those squids exposed to Internet
- ▶ **dCache 2.6.x** end of support is **June 2015** **BEWARE**
 - ▶ Sites running 2.6.x versions are encouraged to move to 2.10.x/2.11.x soon
 - ▶ JNIR-T1 and NDGF recently migrated ; IN2P3 will migrate to 2.10.14+ on 24th Feb.
- ▶ **MW readiness**: StoRM 1.11.5/6 under verification; CREAM 1.16.4 verified
 - ▶ CNAF upgraded StoRM to 1.11.6, for ATLAS

■ MW issues

- ▶ Buffer overflow vulnerability in the GNU C Library (glibc):
 - ▶ **CVE-2015-0235**: the "GHOST" vulnerability "High Risk" → Link to EGI CSIRT [\[here\]](#)
- ▶ **Argus** failures seen with latest *Java* versions [\[GGUS:111505\]](#):
 - ▶ Caused as recent *Java* versions disable SSLv3 by default. A workaround is available
 - ▶ Other MW based in *Java* might be affected...

Tier-0

- **VOMRS decommissioning** & replacement by **VOMS-admin**
 - ▶ New VOMS-admin release made available & deployed
 - ▶ Feedback from the experiments is being collected [\[here\]](#)
 - ▶ VOMRS will be decommissioned on Feb 16th
 - ▶ DB will be frozen – VMs kept (stopped) in case we need to revert back
- Access to the **AFS UI** was closed on Monday 2nd Feb.
 - ▶ No major issues observed (*afaik*)

Experiments 1/2

■ ALICE:

- ▶ High activity over the past weeks
 - ▶ 15th/16th Jan → central services restart w/new certificates & bug discovered
- ▶ **Big data loss** at SARA (NLT1) due to RAID controller failure
 - ▶ 108k ALICE files (~8 TB) lost
 - ▶ catalogue clean-up and re-replication have finished
 - ▶ ~12k files had a single replica there, none of which were very important anymore

■ ATLAS:

- ▶ Prodsys-2 fully validated + Rucio stable
 - ▶ Data-recovery will be soon tested + automatic file(s) recovery
- ▶ High activity w/some hiccups. Production mostly in Multi-Core
- ▶ **Data loss** at SARA: 0.5 M files

Experiments 2/2

■ CMS:

- ▶ Big Run2 MC production on-going
- ▶ Clean-up of full Disk areas in T1s
 - ▶ Some T1s integrated in the Dynamic Data Placement system
- ▶ Tape staging tests at T1s on-going
- ▶ Multi-Core: 50% of T1 resources are requested “partitionable slot mode”
 - ▶ Long pilots preferred and partly n single-core jobs in a multi-core pilot
- ▶ ‘Analysis’ & ‘production’ being moved to a global Condor pool
 - ▶ pilots will no longer have VOMS role ‘production’ → BS re-configurations

■ LHCb:

- ▶ Run1 legacy stripping almost finished
 - ▶ **SARA data-loss**: ~100k files. Many user files w/single replica
- **Note:** SARA SIR is available in the [\[WLCG SIR repo\]](#)

Task Forces 1/3

■ gLExec:

- ▶ Panda testing campaign in progress:
 - ▶ 54 sites covered so far – a ramp up expected in the coming weeks
 - ▶ Almost all are usually ok – some issues are being investigated

■ Machine/Job features:

- ▶ Asking for volunteer sites to deploy MJF on their batch/cloud
 - ▶ Deployment documentation is available
 - ▶ Please, contact [\[Stefan Roiser\]](#) or through [\[MJF mailing list\]](#)

■ IPv6 Validation & Deployment:

- ▶ By April, PS-instances in T1s should be dual-stack (ATLAS req.)

Task Forces 2/3

■ Middleware Readiness WG:

- ▶ The minutes from the Jan 21st meeting are available [\[here\]](#)
- ▶ Excellent participation and follow-up:
 - ▶ Many [\[actions\]](#) are being addressed by MW Officer, experiments and sites
 - ▶ Sites are asked to install the “*MW Package Reporter*” (fully compliant with EGI security requirements)
- ▶ Next meeting **Wed 18 March at 4pm CET**. Please note!

■ Squid Monitoring and HTTP Proxy Discovery:

- ▶ 154/178 squid services registered so far in GOCDB or OIM
 - ▶ targeted campaign to get the remaining squids registered soon
- ▶ Squids that are restricting CVMFS server destinations will need to be updated to allow access to some new Stratum 1s serving *egi.eu* and/or *opensciencegrid.org* repositories
 - ▶ easy to do with pre-defined *acl* in recent frontier-squid releases

Task Forces 3/3

■ Network and Transfer Metrics WG:

- ▶ Input from ATLAS on use-cases/requirements *still pending*
- ▶ perfSONAR infrastructure monitoring available in [\[production\]](#)
- ▶ Pilot versions of *maddash* and *datastore* [\[available\]](#)
- ▶ 28th Jan. perfSONAR operations meeting minutes [\[here\]](#)
 - ▶ Agreed to start full mesh latency testing with top-k sites first
 - ▶ Deadline to migrate to perfSONAR 3.4.1 is 16th Feb. → then, tickets!
- ▶ Experiments encouraged to test the API to access perfSONAR data
 - ▶ Stefan is directing work on extracting data from the MESSAGE BUS of the PerfSONAR box → experiment-agnostic so it can be made available for all
- ▶ perfSONAR WS held in Columbus Ohio Jan. 21-22 → [\[press release\]](#)
- ▶ **Next meeting** to discuss use cases will be held on [\[18th Feb\]](#)

Next OpsCoord meeting & details

- **Next Ops Coord meeting in 19th Feb.**
- T1s and T2s are **encouraged to participate**
 - ▶ There is a slot for them in the agenda to raise any issues regarding WLCG Operations



WLCG Operations coordination twiki

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

Mailing list

ops-coord@cern.ch