

# Table of Contents

<b>WLCG Operations Coordination Minutes - February 20, 2014.....</b>	<b>1</b>
Agenda.....	1
Attendance.....	1
News.....	1
Middleware news and baseline versions.....	1
Tier-1 Grid services.....	1
Storage deployment.....	1
FTS deployment.....	3
LFC deployment.....	3
Other site news.....	3
Oracle upgrades.....	3
Experiments operations review and Plans.....	4
ALICE.....	4
ATLAS.....	4
CMS.....	4
LHCb.....	5
Ongoing Task Forces and Working Groups.....	5
FTS3 Deployment TF.....	5
gLExec deployment TF.....	6
IPv6 validation and deployment TF.....	6
Machine/Job features TF.....	6
Middleware readiness WG.....	6
Multicore deployment.....	6
perfSONAR deployment TF.....	6
SHA-2 Migration TF.....	7
Tracking tools evolution TF.....	7
WMS decommissioning TF.....	7
xrootd deployment TF.....	7
Action list.....	7

# WLCG Operations Coordination Minutes - February 20, 2014

## Agenda

- <https://indico.cern.ch/event/280061/>

## Attendance

- Local: Simone, Nicolo, Alessandro D.G., Maite, Alberto, Antonio, Fabrizio, Stefan, Luca, Felix, Oliver K., Oliver G., Maarten, Maria
- Remote: Burt, Alessandro C., Alexander, Antonio P., Carlos, Cheng-Hai, Cristoph, Di Qing, Jeremy, Thomas, Massimo

## News

- Simone - next meeting on March 6th; future meetings including planning meeting to be announced, should follow regular agenda.

## Middleware news and baseline versions

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

- Highlights include a StoRM security fix release, and the release of the proxyrenewal daemon to fix proxy key strength issues.
- Added note about end of security updates for EMI-2 in April 2014.
- OpenSSL issue
  - ◆ EGI broadcast sent Feb 4 describing current state of affairs and recipes for cures
  - ◆ Sites using **HTCondor as batch system** may need to apply one of these configuration changes for now:
    - ◇ `DELEGATE_JOB_GSI_CREDENTIALS = False`
    - ◇ `GSI_DELEGATION_KEYBITS = 1024`
  - ◆ HTCondor v8.0.6 has the default increased to 1024

## Tier-1 Grid services

### Storage deployment

Site	Status	Recent changes	Planned changes
CERN	<b>CASTOR:</b> v2.1.14-5 and SRM-2.11-2 on all instances <b>EOS:</b> ALICE (EOS 0.3.4 / xrootd 3.3.4) ATLAS (EOS 0.3.8 / xrootd 3.3.4 / BeStMan2-2.3.0) CMS (EOS 0.3.7 / xrootd 3.3.4 / BeStMan2-2.3.0) LHCb (EOS 0.3.3 / xrootd 3.3.4 /	LHCb EOS SRM upgraded to SHA-2 compliant version	

	BeStMan2-2.3.0)		
ASGC	CASTOR 2.1.13-9 CASTOR SRM 2.11-2 DPM 1.8.7-3 xrootd 3.3.4-1	None	None
BNL	dCache 2.6.18 (Chimera, Postgres 10 w/ hot backup) http (aria2c) and xrootd/Scalla on each pool	None	None
CNAF	StoRM 1.11.3 emi3 (ATLAS, LHCb) StoRM 1.11.2 emi3 (CMS)	None	None
FNAL	dCache 1.9.5-23 (PNFS, postgres 8 with backup, distributed SRM) httpd=2.2.3 Scalla xrootd 2.9.7/3.2.7.slc EOS 0.3.15-1/xrootd 3.3.6-1.slc5 with Bestman 2.3.0.16	Upgrade to EOS and xrootd	Will begin migrating pool nodes to FNAL_Disk dCache instance
IN2P3	dCache 2.6.18-1 (Chimera) on SL6 core servers and pool nodes Postgres 9.2 xrootd 3.0.4 (Alice T1), xrootd 3.3.4 (Alice T2)	xrootd 3.3.4 (Alice T2)	None
JINR-T1	dCache <ul style="list-style-type: none"> <li>• srm-cms.jinr-t1.ru: 2.6.21</li> <li>• srm-cms-mss.jinr-t1.ru: 2.2.24 with Enstore</li> </ul> xrootd federation host for CMS: 3.3.3	minor dCache version upgrades	None
KISTI	xrootd v3.2.6 on SL5 for disk pools xrootd 20100510-1509_dbg on SL6 for tape pool dpm 1.8.7-3		
KIT	dCache <ul style="list-style-type: none"> <li>• atlasrm-fzk.gridka.de: 2.6.17-1</li> <li>• cmssrm-kit.gridka.de: 2.6.17-1</li> <li>• lhcb-srm-kit.gridka.de: 2.6.17-1</li> </ul> xrootd <ul style="list-style-type: none"> <li>• alice-tape-se.gridka.de 20100510-1509_dbg</li> <li>• alice-disk-se.gridka.de 3.2.6</li> <li>• ATLAS FAX xrootd proxy 3.3.3-1</li> </ul>	None	None
NDGF	dCache 2.3 (Chimera) on core servers. Mix of 2.3 and 2.2 versions on pool nodes.		
NL-T1	dCache 2.2.17 (Chimera) (SURFsara), DPM 1.8.7-3 (NIKHEF)	None	None

PIC	dCache head nodes (Chimera) and doors at 2.2.17-1 xrootd door to VO servers (3.3.4)	None	Scheduled downtime for upgrade to dCache 2.6 cancelled for incompatibility with Enstore.
RAL	CASTOR 2.1.13-9 2.1.14-5 (tape servers) SRM 2.11-1		
TRIUMF	dCache 2.2.18		

- Stefan confirms that EOS SRM for LHCb was upgraded.
- PIC: no information about dCache2.6-Enstore compatibility yet.

## FTS deployment

Site	Version	Recent changes	Planned changes
CERN	2.2.8 - transfer-fts-3.7.12-1		
ASGC	2.2.8 - transfer-fts-3.7.12-1	None	None
BNL	2.2.8 - transfer-fts-3.7.10-1	None	None
CNAF	2.2.8 - transfer-fts-3.7.12-1		
FNAL	2.2.8 - transfer-fts-3.7.12-1		
IN2P3	2.2.8 - transfer-fts-3.7.12-1		
JINR-T1	2.2.8 - transfer-fts-3.7.12-1		
KIT	2.2.8 - transfer-fts-3.7.12-1		
NDGF	2.2.8 - transfer-fts-3.7.12-1		
NL-T1	2.2.8 - transfer-fts-3.7.12-1		
PIC	2.2.8 - transfer-fts-3.7.12-1		
RAL	2.2.8 - transfer-fts-3.7.12-1		
TRIUMF	2.2.8 - transfer-fts-3.7.12-1		

## LFC deployment

Site	Version	OS, distribution	Backend	WLCG VOs	Upgrade plans
BNL	1.8.3.1-1 for T1 and US T2s	SL6, gLite	ORACLE 11gR2	ATLAS	None
CERN	1.8.7-3	SLC6, EPEL	Oracle 11	ATLAS, LHCb, OPS, ATLAS Xroot federations	

## Other site news

## Oracle upgrades

- Luca Canali presents the schedule for Oracle upgrades affecting WLCG
  - ◆ <https://indico.cern.ch/event/280061/contribution/5/material/slides/>
- Points from the discussion:
  - ◆ After the upgrades, the old RACs (RAC10/RAC11) will be without critical power and will host only standby databases; later these will be moved back to critical power on RAC51 (together with DBs currently at SafeHost)
  - ◆ Maarten: status of streams decommissioning? Simone, Alessandro: multiple instances still needed for ATLAS conditions DB; number of streams reduced from 10 to 4, but not planning to switch off completely.

- ◆ LHCBR candidate to migrate to Oracle12 in 2014 because it is less busy and hosts few applications (LHCb LFC, LHCb Dirac bookkeeping), validation is easier. Both applications need to be migrated simultaneously. Should be a short downtime (~2h)
  - ◇ CAPTURE and REPLAY test worked.
  - ◇ LFC developers will test LFC using Oracle11 clients against Oracle12 test instance. LFC is a simple application, problems not expected. Stefan, Oliver K.: LHCb will stop using LFC before Run2, minimize effort.
  - ◇ DIRAC developers currently validating DIRAC bookkeeping.
  - ◇ Rollback is possible because new Oracle12 features will not be enabled.
  - ◇ Stefan to check if March schedule is OK for LHCb. Cannot go beyond mid-may because of unavailability of critical power.
  - ◇ Simone: we agree to proceed with LHCBR upgrade to Oracle12 when we get green light from all of the above.
- ◆ Other DBs (e.g. AIS, LCGR, other experiments) will be migrated to 11.2.0.4 - each instance will have its own schedule, agreed individually. Test instances available. Migration to Oracle12 in winter.
- ◆ Maite: get DB migration schedule as recurrent point in the WLCG Ops Coord meeting agenda. Also update on testing at next meeting.

## Experiments operations review and Plans

### ALICE

- job efficiencies will be fluctuating with the amounts of analysis jobs being run in preparation for the Quark Matter 2014 [☞](#) conference (May 19-24)
- CERN
  - ◆ Wigner vs. Meyrin job failure rates and CPU/wall-time efficiencies
    - ◇ no change
    - ◇ next meeting Feb 28
- KIT
  - ◆ the final number of corrupted files was 26126
    - ◇ 21k other files were salvaged, thanks very much!
  - ◆ many jobs were reading a lot of data remotely from CERN
    - ◇ resolved?
- CNAF
  - ◆ tape SE updated to xrootd v3.3.4 with new checksum plugin successfully validated with test transfers, thanks!
- RRC-KI-T1
  - ◆ careful memory tuning for jobs done, thanks!

### ATLAS

- Nothing to add since the WLCG F2F meeting

### CMS

- DBS3 was put into production! Needed a week long stop of production activity. Production was drained for Feb. 10th and started to ramp back up on Feb. 12th in the CERN evening
- CVMFS
  - ◆ CMS wants to access Integration Builds (~nightly builds) via CVMFS
    - ◇ Needs to be separated from production software releases because of very high activity (2 builds per day)

- ◊ Will start working on establishing an additional CVMFS instance and repository only for nightly builds
- ◆ CVMFS at CERN
  - ◊ testing few LSF nodes with CVMFS instead of AFS
  - ◊ If ok, will inform user community and then plan to switch to CVMFS at CERN
- RAL FTS3 scale test
  - ◆ Sites have to change their local configuration to use the RAL FTS3 server
  - ◆ We will start pushing now that DBS3 is in production
- EOS redirector needed to be restarted, GGUS:101414 [↗](#)
  - ◆ work to introduce redundancy and provide proper critical service instructions started
- T1 scheduling policy
  - ◆ reintroducing 5% share for analysis jobs (/cms/Role=pilot)
  - ◆ needed for SAM tests not timing out and allow more analysis
  - ◆ VO card updated, will discuss with T1 sites soon
- CNAF T1 is in downtime to upgrade storage, production activities were stopped but queues were kept open for analysis reading input via AAA, seems to work fine
- Simone: criticality of glExec SAM test still on hold for T1 analysis scheduling policy? Oliver: yes.

## LHCb

- Started incremental stripping campaign, expected duration of 6-8 weeks, heavy loads on the stager systems foreseen.
  - ◆ LHCb is asking for T1 sites for stager throughput as stated in the table below (same as last campaign)
- WN power at Wigner found to be significantly lower than CERN/Meyrin and other grid sites. As a consequence single payloads will take more wall time to execute for the same work as on other sites.
- EOS/SRM endpoint upgraded to new SHA2 compliant version
- WMS decommissioning no progress in the last two weeks b/c of other priorities. As agreed before the decommissioning of the CERN instance by April is OK for LHCb.

Stager throughput at T1 sites for incremental stripping campaign

Total	Rate (MB/s)
CERN	50
CNAF	153
GRIDKA	124
IN2P3	134
PIC	39
RAL	111
SARA	104

- Simone: power of CERN WNs is vastly different if running at Meyrin or Wigner. Consider using Machine/Job Feature reports to choose correct timeout to use on individual WNs.
- Maarten: also publish correctly in info sys.

## Ongoing Task Forces and Working Groups

### FTS3 Deployment TF

- Deployment proposal presented at F2F
- RAL FTS3 incident on Feb 18th - case for multiple server deployment

- Oli: upcoming RAL FTS3 downtime? Andrew: rescheduled, no planned FTS3 downtime at the moment
- Alessandro: current DDM requires a couple of hours for manual FTS3 server switch in case of incident. Upcoming discussion with FTS3 developers on how to perform FTS3 server switch in Rucio.

## gLExec deployment TF

- 77 tickets closed and verified, 18 still open
- Deployment tracking page

## IPv6 validation and deployment TF

### Machine/Job features TF

- For batch we do have a prototype installation ready for testing. For cloud usage there was a concern about the usage of the "meta-data service" for providing the job features
  - ◆ A prototype based on couchdb has been tested and after some stress testing proved to be reliable. Currently discussing with CERN/Openstack on further steps of installing this tool.
- Asked remaining VOs to give feedback by end of February (as agreed in the TF) on the current prototype installation on the CERN batch infrastructure.
- Also good progress in interaction with Igor Sfiligoi's project (for bidirectional communication)

### Middleware readiness WG

- Minutes of the Feb 6 meeting are linked from the agenda [↗](#). They include conclusions on repositories, answering concerns raised on 2014/02/19 in the e-group, namely:
  - ◆ PTs will continue using the repo of their preference today (also stated on slide 3 of the presentation at the Feb 11th f2f Ops Coord meeting [↗](#)).
  - ◆ INFN's official statement of assurance for the EMI repo maintenance in the foreseeable future (section 3.D. in this direct link to the minutes [↗](#) labelled "Conclusion on repositories").
  - ◆ The preferred repos per PT are here.
- Next meeting to be decided in this doodle [↗](#). It currently shows that we meet on **Mon March 10th at 3:30pm CET**. If you wish to change this, please keep voting.

### Multicore deployment

- Reported in detail last week on the F2F meeting:
  - ◆ First round of meetings with initial reports from experiment activities status (ATLAS and CMS).
  - ◆ First impressions from sites.
- Next meetings dedicated to batch system mini-workshops (HTCondor, SGE, Torque/Maui, Slurm).
- Next TF meeting to be skipped for clash with GDB in Bologna. Pre-GDB will be about batch systems, so it will touch multicore scheduling among other topics.

### perfSONAR deployment TF

- No news since F2F.
- Wait before declaring perfSONAR 3.3.2 as baseline.

## SHA-2 Migration TF

- EOS SRM for LHCb **OK** since Feb 17
- VOMRS
  - ◆ the VOMS-Admin test cluster is **available** since Feb 17
    - ◇ experiment VO admins are trying it out and reporting feedback, thanks!
  - ◆ host certs of our future VOMS servers are from the new SHA-2 CERN CA
    - ◇ we will do a campaign to get the new servers recognized across the grid well before we start using them
    - ◇ for convenience we will provide the configuration files also in rpms
- Need to make sure that new VOMS services are not used too early. Clients accidentally connecting to new VOMS should get error, not hang.

## Tracking tools evolution TF

- No update since F2F

## WMS decommissioning TF

- all looks fine for decommissioning the WMS instances for experiments by the end of April
  - ◆ draining as of early April
- the SAM instances have their own timeline

## xrootd deployment TF

## Action list

1. Investigate how to separate Disk and Tape services in GOCDB
  - ◆ proposal submitted via GGUS:93966
  - ◆ **in progress** - ticket updated, current solution to be validated. PIC reported that they had issues, make sure that their experience is reported to the developers in the ticket.
2. Agree with IT-PES on a clear timeline to migrate OPS and the LHC VOs from VOMRS to VOMS-Admin
  - ◆ **in progress**
    - ◇ voms-admin is available
    - ◇ experiment VO managers are testing
    - ◇ pending validation
    - ◇ <https://twiki.cern.ch/twiki/bin/view/GridServices/VomsAdminTestInstance>

-- NicoloMagini - 17 Feb 2014

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