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WLCG Tier1 Service Coordination Minutes - 19 January 2012

Attendance

Local:

Remote:

Action list review

Release update

Data Management & Other Tier1 Service Issues

Site	Status	Recent changes	Planned changes
CERN	CASTOR 2.1.11-9+SRM-2.11 for all main instances, tapegateway active on CASTORPUBLIC ; xrootd: 2.1.11-1 FTS: 5 nodes in SLC5 3.7.0-3; 7 nodes in SLC4 3.2.1 EOSATLAS: 0.1.1-7/xrootd-3.1; EOSCMS: 0.1.0/xrootd-3.0.4	<ul style="list-style-type: none"> The experience with the new Tape Gateway (2.1.11-9 TG) is satisfactory (since Jan 10) The NS has been migrated to a new HW infrastructure and Oracle 11g on Jan 11 	<ul style="list-style-type: none"> By the end of next week all DB used by CASTOR at CERN will be running against Oracle 11g Plan to switch to TG for all in the next two weeks Intensive tests for 2.1.12 (candidate release for 2012 data taking continuing)
ASGC	CASTOR 2.1.11-6 SRM 2.11-0 DPM 1.8.2-3	Dec 2011: DPM upgraded, both head node and disk servers 31/12/11: unscheduled intervention for tape system due to network switch failure 18/01/12: scheduled intervention for DC power maintenance: CASTOR and DPM were unavailable	None
BNL	dCache 1.9.12.10 (Chimera, Postgres 9 w/ hot backup) http (aria2c) and xrootd/Scalla on each pool	postgres hot backup	None
CNAF	StoRM 1.8.0 (Atlas, CMS, LHCb)	None	None
FNAL	dCache 1.9.5-23 (PNFS, postgres 8 with backup, distributed SRM) httpd=2.2.3 Scalla xrootd 2.9.7/3.1.0.osg Oracle Lustre 1.8.6	use OSG packages for Xrootd	EOS-0.1.1-8 (01/24/2012) Lustre 1.8.7 (opportunity window)

	EOS 0.1.1-4/xrootd 3.1.0.osg with Bestman 2.0.10		
IN2P3	dCache 1.9.5-29 (Chimera) on core servers and pool nodes		Upgrade of core servers and pool servers to 1.9.12-14 (Chimera) on 2012-02-07 (site downtime). New hardware for core servers (more RAM, SSD disks). Move to postgres 9.0.
KIT	dCache atlassrm-fzk.gridka.de: 1.9.12-11 (Chimera) cmssrm-fzk.gridka.de: head nodes 1.9.5-26 (Chimera), pool nodes 1.9.5-6 through -25 gridka-dcache.fzk.de: head nodes 1.9.5-26 (PNFS), pool nodes 1.9.5-24,-25 xrootd (version 20100510-1509_dbg)		
NDGF	dCache 1.9.14 (Chimera) on core servers. Mix of 1.9.13 and 2.0.0 on pool nodes.		
NL-T1	dCache 1.9.12-10 (Chimera) (SARA), DPM 1.7.3 (NIKHEF)	None	None
PIC	dCache 1.9.12-14 (last upgrade to patch release on 14-Dec); PNFS on Postgres 9.0	None	None
RAL	CASTOR 2.1.10-1 2.1.10-0 (tape servers) SRM 2.10-2	none	<ul style="list-style-type: none"> • Beginning of next week: upgrade to SRM 2.11 • Jan 26 2012: upgrade to CASTOR information provider • Feb 14 2012: upgrade to CASTOR 2.1.11-8 and to new Transfer Manager
TRIUMF	dCache 1.9.5-28 with Chimera namespace	None	None

Other site news

- Michael explained the recent changes at BNL. Two new different access protocols were added: http and xrootd access. They allow to access the data even if all dCache servers are down (apart from Chimera). We took advantage of the Local Site Mover: instead of accessing dcache data via dcap, we use a wrapper. So, the new protocols can work as fallback solutions and are also useful for the Federated xrootd Storage. All this is limited to read (not write).

CASTOR news

CERN operations and development

EOS news**xrootd news****dCache news**

- Baseline : 1.9.12-15 : Release Notes [↗](#)
- As of Jan 1, dCache is open source. Mostly AGPL, some libraries LGPL.
- Next dCache workshop scheduled for April 17/18 at DESY/Zeuthen. Agenda will be ready end of next week.

StoRM news**FTS news**

- FTS 2.2.8 now installed on the CERN pilot service. Stress tests from Altas, Phedex transfers, and Oracle 11 db all working.
- gfal2, one of the component libraries for FTS3, has been released for beta testing - <https://svnweb.cern.ch/trac/lcgutil/wiki/gfal2> [↗](#)
 - ◆ srmBringOnline being implemented at LHCb's request

DPM news

- DPM 1.8.3, not yet certified, will concentrate on packaging improvements, in particular EPEL compatibility
- DPM 1.8.2-3 (EMI release) certified
- DPM 1.8.2-3 (gLite release) in staged rollout
 - ◆ fast dpm-drain
 - ◆ filesystem selection algorithm configurable by admin
 - ◆ support for central banning (Argus)
 - ◆ Allow definition of the number of threads for DPM and SRM servers at startup time
 - ◆ <https://savannah.cern.ch/patch/?5005> [↗](#)
 - ◆ <https://savannah.cern.ch/patch/?5006> [↗](#)
- Monthly releases of new unstable components can be followed on the blog: <https://svnweb.cern.ch/trac/lcgdm/blog> [↗](#)
 - ◆ This covers NFSv4.1, WebDAV, Nagios, Catalogue synchronisation & 'perfsuite'.
 - ◆ Latest release: <https://svnweb.cern.ch/trac/lcgdm/blog/unstable-release-1111> [↗](#)

LFC news

- LFC 1.8.2-3 (EMI release) certified
- LFC 1.8.2-2 (gLite release) in staged rollout
 - ◆ fix for read-only replica operation (LHCb)
 - ◆ support for central banning (Argus)
 - ◆ <https://savannah.cern.ch/patch/?5003> [↗](#)
 - ◆ <https://savannah.cern.ch/patch/?5004> [↗](#)

LFC deployment

Site	Version	OS, n-bit	Backend	Upgrade plans
ASGC	NA	NA	NA	NA
BNL	1.8.0-1	SL5, 64-bit	Oracle	None
CERN	1.8.2-0 64-bit	SLC5	Oracle	

				Upgrade to SLC5 64-bit only pending for lfcshared1/2
CNAF	1.8.0-1	SL5 64-bit	Oracle	None
FNAL	N/A			Not deployed at Fermilab
IN2P3	1.8.2-2	SL5 64-bit	Oracle 11g	
KIT	1.7.4-7	SL5 64-bit	Oracle	Oracle backend migration pending
NDGF	1.7.4.7-1	Ubuntu 10.04 64-bit	MySQL	None
NL-T1	1.7.4-7	CentOS5 64-bit	Oracle	
PIC	1.7.4-7	SL5 64-bit	Oracle	
RAL	1.7.4-7	SL5 64-bit	Oracle	
TRIUMF	1.7.3-1	SL5 64-bit	MySQL	None

Experiment issues

WLCG Baseline Versions

- Release report: deployment status wiki page
- WLCG Baseline versions: table

Status of open GGUS tickets

- Experiments reported no issues.
- IN2P3 reported progress on the long-standing network issues they are experiencing with remote sites in the USA and in Japan. Many GGUS tickets are involved and both ATLAS and CMS are affected. If the IN2P3 LAN re-configuration is of any help, VOs, please, update GGUS:75983 [↗](#) and GGUS:74268 [↗](#).

Review of recent / open SIRs and other open service issues

Conditions data access and related services

- The validation of COOL query performance on Oracle 11g servers has been completed. It is confirmed that the problems previously observed in the tests on Oracle 11.2.0.2 servers were due bug 10405897 in this Oracle server version, as described in task #23366 [↗](#).
 - ◆ This bug is fixed in Oracle 11.2.0.3, which is the version being deployed by IT-DB on the databases of all LHC experiments.
 - ◆ It should be noted that this bug was absent in 11.2.0.1 and was introduced in 11.2.0.2, i.e. in a minor patch update. For the future, this suggests that performance validation may be needed also for minor patch updates.
 - ◆ More details about the COOL performance validation, together with detailed reports including performance plots and execution plans for the relevant queries, may be found on the COOL twiki. For instance, this is the COOL performance report on Oracle 11.2.0.3

Database services

- Experiment reports:
 - ◆ ALICE: New online database being prepared.
 - ◆ ATLAS: ATONR, ATLR, ADCR databases upgraded (+ migration to new hw) to 11g in the last 2 weeks. ATLARC and ATLDSC (downstream capture) upgraded (+ migration to new hw) to 11g before Xmas. Few incidents affecting Streams replication (Streams Capture Aborting With ORA-26767 Due To Temp Tables Created By DBMS_COMPRESSION [ID

1082323.1] and logminer issue with compatible parameter) fully understood and fixed.

- ◆ CMS: New online database being prepared. Upgrade scheduled to be confirmed. CMSARC database upgraded to 11g.
- ◆ LHCb: New online database being prepared. LHCbR upgrade confirmed on 24th January.

- Site reports:

Site	Status, recent changes, incidents, ...	Planned interventions
BNL	Deployment of CPU patches 12/12/2011 and 12/13/2011 in oracle databases. No issues observed/reported per deployment of these patches	None
CNAF		LHCb database upgrade scheduled on 31st January
KIT	Nothing to report	ATLAS- and LHCb databases upgrades to 11g on Tue 24.01 and Wed 01.02
IN2P3	ATLAS database upgraded on 19th January	LHCb database upgrade scheduled on 2nd February
PIC	Upgraded TAGs database to 11.2.0.3 on 12th of January	LHCb database upgrade scheduled on 30th January. FTS upgrade (and LFC stop) to be scheduled
RAL	ATLAS database upgraded on 18th January. Castor DB have been moved to two new 3-nodes RAC. Waiting on Atlas to move the LFC back to CERN after that we will upgrade FTS to 11g	LHCb database upgrade scheduled on 31st January
SARA	Tested the upgrade to 11.2.0.3 twice on a stand-alone Oracle database (no RAC cluster)	Upgrade to 11g scheduled on February 1st
TRIUMF	Nothing to report	ATLAS 3D Oracle Upgrade to 11.2.0.3 scheduled for Monday Jan 23rd

- CPU patches (January 2012):

- ◆ Oracle has released the quarterly security patches on January 18th.
- ◆ One of the issues fixed in the Oracle database has been highlighted in the news (<http://www.teamshatter.com/topics/general/team-shatter-exclusive/teamshatters-analysis-of-the-january-18-2012>), <http://www.infoworld.com/d/security/revealed-fundamental-oracle-flaw-184163?page=0,0&source=feed>).
- ◆ We have been validating a number of the databases using the Oracle provided script (see http://blogs.oracle.com/security/entry/learning_more_about_oracle_database), no database have been found to be in a worrying state.
- ◆ We will deploy the patches in the coming weeks, starting with dev/test/integration systems.

AOB

-- AndreaSciaba - 18-Jan-2012

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