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# LCG Service Co-ordination Meeting Status – 07–Oct–2009

Indico Agenda: <http://indico.cern.ch/categoryDisplay.py?categId=654>

This Page: <https://twiki.cern.ch/twiki/bin/view/LCG/LcgScmStatus>

This page is dynamically constructed from each of the individual service reports.

## Deployment Status

Last update of PPSCoordinationWorkLog 07–Oct–2009 by AntonioReticco

## Now in Production

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2009–10–06: *gLite 3.1 PPS Update 56* released to production

This update contains the CREAM CE version 1.5 (PATCH:3259)

Among others it fixes 2 high-risk vulnerabilities (1 potential root exploit) and brings *many* improvements to the robustness of CREAM services:

Vulnerability advisories:

- ◆ <http://www.gridpp.ac.uk/gsvg/advisories/advisory-55615.txt>
- ◆ <http://www.gridpp.ac.uk/gsvg/advisories/advisory-55616.txt>

VOMS server host certs are not required anymore in the CREAM CE node (the `/etc/grid-security/vomsdir/*/*.lsc` files are sufficient)

First release of new BLAH blparser for LSF and PBS/Torque (use of batch system status/history commands instead of parsing the log files)

IPv6 support for BLAH

Several bug fixes, in particular:

- ◆ Fix for a problem with purge (not deleting the job sandbox dir in some cases)
- ◆ Fix for a problem for which there could be at most 32000 active jobs per user
- ◆ Fix for a problem for which the produced accounting logs (used by APEL and DGAS) was not properly filled if the CREAM CE is not the Torque server

Release notes: <http://glite.web.cern.ch/glite/packages/R3.1/updates.asp>

## Now in PPS

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2009–10–06: *gLite 3.1.0 PPS Update 52* went through deployment test in PPS

And it is now being installed on the remaining services

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Security fix

## Soon in Production

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2009-10-07: *News from Certification and Release teams:*

Priority in the last three weeks was given to the preparation of a security fix for a vulnerability affecting an important number of node types in production.

The fixes are now certified and will be moved to PPS tomorrow 8/10

A corresponding update to production has to be expected next week

The application of the patch won't require a reconfiguration of the nodes but likely the services will need to be re-started

2009-09-15: gLite 3.1 baseline (SL4) : Staged roll-out

New versions of some middleware components are going to be released to the production sites in the next days with a controlled roll-out, Namely:

VOMS Admin Server 2.0.18-1, VOMS Admin Client 2.0.10-1 (PATCH:2913, 3047)

GLUE 2.0 Enabled BDII (PATCH:3204)

## PPS News and Info

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2009-09-06: *Tests of Cream CE in production:* in progress

CMS is testing the WMS-based submission to CREAM CES at CERN, CNAF, FZK and RAL

The tests so far haven't shown any performance limitation in ICE, the upgrade to the latest version, released with gLite 3.1 Update 55 is however recommended

A known issue in CREAM, reported with BUG:52651 "CREAM file descriptor overuse" was hit at CNAF

Supporting sites are now updating to the last version of CREAM (released on the 6th) that fixes the bug

2009-10-05: SAM tests for CREAM available in the SAM Validation instance.

SAM validation: <https://sam-val.cern.ch:8443/sam/sam.py>

CREAM CE test results: <http://tinyurl.com/creamtests>

ROCs please check

## Data Management Services

Last update of LcgScmStatusDms 07-Oct-2009 by GavinMcCance

### Castor

Currently running 2.1.8-12 on all VO instances

Plans: DB hardware move this month on all instances – shutdown 1 hour – to be scheduled.

Startup: 2.1.9-2 will be deployed on `public` and `c2cern3`. Possible upgrade of LHC experiment instances to be discussed per experiment.

## SRM

CMS, ATLAS and ALICE currently running SRM 2.7–19. LHCb running 2.8.0 (better support for TURLs, checksums and better operational logging).

- ◆ 2.8.1 to be deployed on PPS, LHCb, ALICE asap. CMS and ATLAS to schedule (still testing on PPS). (2.8.1 fixes some checksum issues). Aim to have everyone at  $\geq 2.8$  for startup.
- ◆ 2.9.0 is the pipeline (for deployment with Castor 2.1.9, adding syslog logging).

## FTS

FTS 2.2 being stress-tested on large PPS service with ATLAS.

- ◆ First version to provide checksum support.
- ◆ It changes the way it interacts with the SRMs for the first time in 4 years, and therefore requires a significant scale test.
- ◆ To schedule test with other VOs
- ◆ Status of T1 testing? (some sites had volunteered).
- ◆ Startup: dependant on test results. Plan B: backport checksums and use FTS 2.1.

## LFC

Running version 1.7.2–4.

Plan to move support for CMS to `prod-lfc-shared-central`, and to decommission `=prod-lfc-cms-centra=l`. Important: no data import/export, so all CMS data will be "lost". No date fixed yet.

All nodes are going out of warranty and will be replaced by new ones (except CMS). No date fixed yet.

## Database Services

Last update of LcgScmStatusDb 07–Oct–2009 by EvaDafonte

April security patch update and Oracle recommended bundle patches have been successfully installed on all production databases. Some issues have been observed during the patching:

- ◆ ATLAS offline DB (ATLR) has suffered from severe performance degradation between 16:40 and 17:20 (on Tuesday 12th May), due to high load generated by ATLAS DQ2
- ◆ CMS online DB (CMSONR) was temporarily (around 11:00, 14th May) not accessible to some applications due to wrong connection string.

Oracle Enterprise Grid Control agents have been upgraded to version 10.2.0.5.

Streams:

- ◆ Replication from CERN to IN2P3 (Lyon) was stopped on Sunday 03.05 due to a cooling problem at the computing center. ATLAS, LHCb and LFC replication was resumed on Monday 04.05 around 14:00.
- ◆ A network problem at RAL affected ATLAS replication from Sunday 03.05 until Tuesday 05.05.
- ◆ ATLAS requested to stop the apply process at IN2P3 (Lyon) during part of the ATLAS Stress tests. Apply was disabled from Tuesday 12.05 to Wednesday 13.05.

## Workload Management

Last update of LcgScmStatusWms 07–Oct–2009 by RicardoSilva

## Status

LXPLUS has 2 new aliases: lxplus4 and lxplus5 and the SLC4 motd was revised to encourage users to move to SLC5.

## Work in progress

Upgrade of SLC5 WN to gLite version 3.2.3-0 is being tested (preprod). It will be deployed with the next scheduled linux upgrades.

4 new LCG CEs will be put into production soon submitting to SLC5, these will replace 4 LCG-CEs which are being retired soon. The number of LCG CEs submitting to SLC5 will be increased from 2 to 6 when this operation is completed.

CREAM CEs instabilities lately. Will install brand new release asap.

SLC5 BDII is being prepared.

## Issues

### Authentication and Authorisation – VOMS, VOMRS.

Last update of LcgScmStatusAas 07-Oct-2009 by SteveTraylen

Submitted by SteveTraylen

Voms has been running with out incident since April.

As of the 30th September there has been a change in behaviour.

- ◆ A voms-proxy-init across 12 VOs used to take around 15 seconds and now takes 70 seconds.
- ◆ VomsPostMortem2009x10x01 – work in progress.

No updates are pending at the moment.

- ◆ A voms and voms-admin is in certification but not SL5

A new vo *vo.delphi.cern.ch* (?) will added in the near future it looks like.

MyProxy

- ◆ Hardware warranty issues: both `myproxy` and `myproxy-fts` will be moved this month
- ◆ Would still aim to remove `myproxy-fts` – negotiate with CMS.
- ◆ The newer VOMS enabled MyProxy software is being looked at for SLC5. Not aiming for this for startup.

### Monitoring, Logging and Reporting.

Last update of LcgScmStatusMLR 29-Apr-2009 by JamesCasey

Ongoing work to get latest MoU pledges into a DB for use by the other monitoring applications.  
Updating with latest numbers post RRB

### Miscellaneous Services

Last update of LcgScmStatusMisc 26-Nov-2008 by SteveTraylen

Not a service but the index page for this meeting, LcgScmStatus is becoming to slow to load. I see how to speed it up. The START/END LCGSCM tags will change for next meeting. After todays meeting I will retrofit to this weeks and then send a mail around before the following meeting.

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# Minutes

Last update of LcgScmStatusMinutes 07–Oct–2009 by SteveTraylen

## Present

SteveT (minutes), Gavin, Jamie (chair), Maria, Andrea, Harry, Sophie, Riccardo, Antonio, Olaf, Eva, Miguel, Maarten, JanI

## Introduction

There has not been a meeting for a while partly because things are running smoothly  
Most of LHC at 2 or 3 degrees – something will happen soon.

## LCG Quarterly Report

## WLCG Service Reports

See above for individual reports.

## Production Services

Production release , small but mega important for cream – 3.1 update 56 fixes two high risk vulnerabilities and some outstanding bugs in CREAM.

One for accounting , records are now filled in the case of pbs\_server/cream CE on split nodes.  
Other functional issues, mainly from CERN.  
New BLParser for LSF.

Future releases going to PPS tomorrow with corresponding release to production next week presumably.  
Moving now to new process the staged rollout. First voms and glue 2.0 enabled BDII. Unclear if new VO–Box will go with old or new process.

question

What is the staged roll–out process?

answer

Releases go essentially to production first, a club of sites will be early adopters. Interested sites can take part.

question

Is the cream CE now as *good* as the lcg–ce?

answer

certainly one item is fixed but needs testing on the submission side. First release to consider production rather than special. There are now SAM tests in place.

Over night 8 cream CEs were updated with around 11 (that publish) to go Current Status of cream CEs.

question

Will there be a WMS release?

answer

There is minor release on the way.

Maarten

List of minimum versions will be revamped shortly.

Olaf

Following releases as they go is not always easy.

Jamie

Hopefully better in an SSC world.

Olaf

Yesterday's cream CE may also contain config changes that slows deployment.

Antonio

The Cream CE deployment is small and the current one is *broken* anyway. This also includes the rpath RPM fixes which allowed time for the changes already to have extensive certification.

Jan

Work around for current deployments is always appreciated.

Antonio

Security fixes do in other cases block addition of new features , e.g rpath fixes.

## Data Managment

See Data Management Services above.

## Castor

Miguel

Main new castor feature is throttling , particularly interesting to CMS and Atlas.

Harry

What is the latest date for this change?

Miguel

Feature not released, due for release first week of November.

Jamie

Late so should it wait till it shutdown at XMAS?

Miguel

We want to install on the non-LHC instances and be ready for LHC VOs if they demand it.

Jamie

Gap is widening with castor version from Tier0 to Tier1.

Miguel

Up to the Tier1s

Jamie

Does it mean that the old version will no longer supported.

## FTS

SRM interaction does change hence the need for scale testing which is now underway.

Jamie: ATLAS need new FTS with checksum support at all Tier1s?

Gavin: Certainly atlas are interested to have it.

Jamie: It seems difficult to imagine tier1s doing this before xmas, model was to run here for a month anyway with the new version.

## LFC

CMS not using their prod LFC so will be merged into General LFC. CMS happy but needs some wider advertisement.



## Database

See report above.

Migration to RHEL4 despite validation on RHEL5 but problems found there.

## Workload Management.

See report above.

Two new aliases for slc4/5 lxplus. Encourage users to move in this direction.

Harry

Are there too many slc4 CEs over slc5 CEs?

Riccardo

Work in progress, news CE nodes are being deployed for slc5.

Maarten

Newer lcg-ces are better anyway from load point of view.

Harry

How is the doubling of WN capacity going? Will it be there in October?

Olaf

Is delayed at delivery at the moment but FIO is ready to deploy when it arrives.

## Authentication

See voms report above

MyProxy – trying to remove myproxy-fts from production service.

On the horizon the voms enabled version of myproxy.

## AOB

How often do we meet? Every two weeks – usual clashes with GDB/F2F SSC/TMB. *4th November* for sure and possibly in two weeks time.

## Reports and Minutes from Previous Meetings

LCG\_LcgScmStatus20080709.pdf: LCG SCM Status from 9th July 2008

LCG\_LcgScmStatus20080806.pdf: LCG\_LcgScmStatus20080806.pdf

LCG\_LcgScmStatus20080903.pdf: LCG SCM Status from 3rd September 2008

LCG\_LcgScmStatus20080917.pdf: LCG SCM from 17th September 2008

LCG\_LcgScmStatus20081001.pdf: LCG SCM from 1st October 2008

LCG\_LcgScmStatus20081001.pdf: LCG SCM from 1st October 2008

LCG\_LcgScmStatus20081105.pdf: LCG\_LcgScmStatus20081105.pdf

LCG\_LcgScmStatus20081105.pdf: LCG SCM from 5th November 2008

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LCG\_LcgScmStatus20081126.pdf: LCG SCM from 26th November 2008

LCG\_LcgScmStatus20090429.PDF: LCG SCM from 29th April 2009

LCG\_LcgScmStatus20090527.PDF: LCG SCM from 27th May 2009

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This topic: LCG > LcgScmStatus

Topic revision: r29 – 27–May–2009 – 13:13:32 – NickThackray



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