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# Worker Node testing for WLCG

- Note: write access for external collaborators can be obtained here.

## Introduction

As of mid September 2012 most of the WLCG sites in EGI are still running the old gLite 3.2 WN version on their worker nodes, despite various issues:

- The old GFAL/lcg\_util code has known bugs that are only fixed in EMI/UMD releases of the WN.
- New products like GFAL2 and features like Xrootd support and federation are not getting real exposure in the production environment.
- Developers who implemented new features (often on our request) may become unavailable when the EMI project has ended.
- It becomes hard to maintain the old build infrastructure and expertise for security patches, should they be needed.
- Even though the old code may be "good enough" for *current* usage by ATLAS and CMS, it certainly is not for the many other VOs that most EGI sites need to support.

ALICE and LHCb are much less affected, at least for SL5, because their jobs bring themselves essentially all they need. For SL6 porting also LHCb will benefit from corresponding test queues.

In the spring of 2012 an initiative was launched to get the EMI-1/UMD-1 WN validated by ATLAS and CMS on a set of sites that together cover all of the relevant SE types:

- BeStMan (as part of EOS)
- CASTOR
- dCache
- DPM
- EOS
- StoRM

Due to other activities with higher priorities at that time, the validation was only completed partially, allowing e.g. CNAF and a few CMS T2 to move their WN to the EMI-1/UMD-1 release.

We now need to restart this activity and keep testing further WN updates regularly, such that we may discover early if a particular update breaks some experiment work flow.

The testing would be done through HammerCloud and participating sites would set up small, essentially permanent test queues for the experiments they support and apply WN updates (automatically?) as they appear in the EMI-2 testing repository:

- [http://emisoft.web.cern.ch/emisoft/dist/EMI/testing/2/s15/x86\\_64/](http://emisoft.web.cern.ch/emisoft/dist/EMI/testing/2/s15/x86_64/)

Meanwhile the EMI-2/UMD-2 WN has been released and it has a much longer lifetime than what was tested earlier, so we should concentrate on that now.

The OS will be mainly SL5 for the time being.

Sites are welcome to join this effort!

## Participating sites and queues

SE type	VOs	Site	CE + queue name	WN version	ATLAS status	CMS status	ALICE status
CASTOR	atlas, cms	RAL	lcgce03.gridpp.rl.ac.uk:8443/cream-pbs-gridTest lcgce05.gridpp.rl.ac.uk:8443/cream-pbs-gridTest lcgce07.gridpp.rl.ac.uk:8443/cream-pbs-gridTest lcgce08.gridpp.rl.ac.uk:8443/cream-pbs-gridTest lcgce09.gridpp.rl.ac.uk:8443/cream-pbs-gridTest	EMI-WN 2.0.0			
dCache	atlas, cms	DESY	grid-cr2.desy.de:8443/cream-pbs-emi2-sl6	EMI-WN 2.0.0 SL6			
dCache	atlas	TRIUMF	ce1.triumf.ca:8443/cream-pbs-test	EMI-WN 2.0.0			
DPM	atlas, cms, lhcb	Brunel	dc2-grid-65.brunel.ac.uk:8443/cream-pbs-atlas dc2-grid-65.brunel.ac.uk:8443/cream-pbs-cms dc2-grid-65.brunel.ac.uk:8443/cream-pbs-lhcb	EMI-WN 2.0.0 SL6			
DPM	atlas, lhcb	Liverpool	hepgrid5.ph.liv.ac.uk:8443/cream-pbs-long	EMI-WN-2.0.0			
DPM	atlas, lhcb	Manchester	vm3.tier2.hep.manchester.ac.uk:8443/cream-pbs-long	EMI-WN-2.2.0			
DPM	atlas, cms	Oxford	t2ce02.physics.ox.ac.uk:8443/cream-pbs-shortfive t2ce02.physics.ox.ac.uk:8443/cream-pbs-mediumfive t2ce02.physics.ox.ac.uk:8443/cream-pbs-longfive	EMI-WN 2.0.0			
StoRM	atlas, cms	CNAF	ce03-lcg.cr.cnaf.infn.it:8443/cream-lsf-emitest	EMI-WN 2.0.0			

## ATLAS test details

- [ATLAS test details](#)

## CMS test details

- [CMS test details](#)

## Summary of fixes to data management components

The latest EMI-2 update [6](#) contains fixes for all known issues related to gfal/lcg\_utils and DPM/LFC clients.

## Result tables (match your site here!)

EMI-2 SL5	ATLAS	CMS	LHCb	ALICE
CASTOR	OK	OK	OK	OK
dCache	<b>NOTE</b>	OK	OK	OK
DPM	OK	OK	OK	OK
EOS	OK	OK	OK	OK
StoRM	OK	OK	OK	OK

- **NOTE:** ATLAS found `gsidcap` access failing for limited (WN) proxies and opened GGUS:87065 [6](#) for the dCache developers.
  - ◆ **Fixed** in EMI-2 Update [6](#) released **Nov 26**.
  - ◆ Also CMS have seen this issue, but currently no CMS site is using that protocol.

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- ◆ For ATLAS sites where only plain `dcap` is used the Oct release was already OK.
- CMS workaround for DPM sites documented here.

EMI-2 SL6	ATLAS	CMS	LHCb	ALICE
CASTOR			OK	OK
dCache		OK	OK	OK
DPM		OK	OK	OK
EOS			OK	OK
StoRM		OK	OK	OK

- See aforementioned CMS workaround for DPM sites.

EMI-1 SL5	ATLAS	CMS	LHCb	ALICE
CASTOR		OK	OK	OK
dCache		OK	OK	OK
DPM	OK	OK	OK	OK
StoRM	OK	OK	OK	OK

- Note: with EMI-1 an upgrade to `lcg_util 1.13.9` may still be needed.
- See aforementioned CMS workaround for DPM sites.

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