

# Testing and Certification report savannah task #23312: BLAH v. 1.18.0 (EMI2)

## Summary

- Product: **BLAH v. 1.18.0**
- Release Task: Task #23312
- ETICS Subsystem Configuration Name: \*\*
- VCS Tag:
- EMI Major Release: EMI 2 (Matterhorn)
- Platform: SL5 epel, SL6 epel
- Author: Sara Bertocco
- Testing report:
- Certification report:
- Date: 3 May 2012
- Outcome: In certification

## Deployment tests

### Clean Installation

- EMI2 BLAH SL5 installation from scratch and configuration log (in CREAM environment) here
- EMI2 BLAH SL6 installation from scratch and configuration log (in CREAM environment) here .

### Upgrade Installation

- EMI2 BLAH SL5 update from EMI1 production version and configuration log (in CREAM environment) here .

## Unit Tests

- SL5 Unit test report available here .
- SL5 Unit test report available here .

## System tests

### Functionality tests

**Check Notifications SL5 - LSF New parser. PASSED with bupdater\_use\_bhlist\_for\_killed="yes" in /etc/blah.config**

Trying with default blah configuration file /etc/blah.config the test on cancelled jobs notifications fails:

```
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
check_notifications_for_cancelled_jobs | FAIL |
NOTIFICATIONS FAILURE != NOTIFICATIONS OK
-----
Tests.Check Notifications For Cancelled Jobs :: Test that notifica... | FAIL |
2 critical tests, 1 passed, 1 failed
2 tests total, 1 passed, 1 failed
=====
Tests.Check Notifications For Normally Finished Jobs :: Test that notificat...
=====
```

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```
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
check_notifications_for_normally_finished_jobs | PASS |
-----
Tests.Check Notifications For Normally Finished Jobs :: Test that ... | PASS |
2 critical tests, 2 passed, 0 failed
2 tests total, 2 passed, 0 failed
=====
Tests.Check Notifications For Suspended Resumed Jobs :: Test that notificat...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
check_notifications_for_suspended_resumed_jobs | PASS |
-----
Tests.Check Notifications For Suspended Resumed Jobs :: Test that ... | PASS |
2 critical tests, 2 passed, 0 failed
2 tests total, 2 passed, 0 failed
=====
Tests | FAIL |
6 critical tests, 5 passed, 1 failed
6 tests total, 5 passed, 1 failed
=====
```

### Changing the configuration file /etc/blah.config adding the row

```
bupdater_use_bhist_for_killed="yes"
```

all notification tests have success.

```
The files of this testsuite will be stored under: /tmp/tmp5KGJmM.cream_testing/
Tests.Check Notifications For Cancelled Jobs :: Test that notifications are...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
check_notifications_for_cancelled_jobs | PASS |
-----
Tests.Check Notifications For Cancelled Jobs :: Test that notifica... | PASS |
2 critical tests, 2 passed, 0 failed
2 tests total, 2 passed, 0 failed
=====
Tests.Check Notifications For Normally Finished Jobs :: Test that notificat...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
check_notifications_for_normally_finished_jobs | PASS |
-----
Tests.Check Notifications For Normally Finished Jobs :: Test that ... | PASS |
2 critical tests, 2 passed, 0 failed
2 tests total, 2 passed, 0 failed
=====
Tests.Check Notifications For Suspended Resumed Jobs :: Test that notificat...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
check_notifications_for_suspended_resumed_jobs | PASS |
-----
Tests.Check Notifications For Suspended Resumed Jobs :: Test that ... | PASS |
2 critical tests, 2 passed, 0 failed
2 tests total, 2 passed, 0 failed
=====
Tests | PASS |
6 critical tests, 6 passed, 0 failed
6 tests total, 6 passed, 0 failed
=====
```

Check Notifications SL5 - LSF New parser. PASSED with bupdater\_use\_bhist\_for\_killed="yes" in /etc/blah.c

**Check Notifications SL5 - LSF Old parser NOT PASSED**

This is because of bug #90085 already a known issue also for EMI-1

```

=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
check_notifications_for_cancelled_jobs | PASS |
-----
Tests.Check Notifications For Cancelled Jobs :: Test that notifica... | PASS |
2 critical tests, 2 passed, 0 failed
2 tests total, 2 passed, 0 failed
=====
Tests.Check Notifications For Normally Finished Jobs :: Test that notificat...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
check_notifications_for_normally_finished_jobs | PASS |
-----
Tests.Check Notifications For Normally Finished Jobs :: Test that ... | PASS |
2 critical tests, 2 passed, 0 failed
2 tests total, 2 passed, 0 failed
=====
Tests.Check Notifications For Suspended Resumed Jobs :: Test that notificat...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
check_notifications_for_suspended_resumed_jobs | FAIL |
_error: Expected status should be in ['HELD'] for job https://cream-48.pd.infn.it:8443/CREAM32910
-----
Tests.Check Notifications For Suspended Resumed Jobs :: Test that ... | FAIL |
2 critical tests, 1 passed, 1 failed
2 tests total, 1 passed, 1 failed
=====
Tests | FAIL |
6 critical tests, 5 passed, 1 failed
6 tests total, 5 passed, 1 failed
=====

```

**Check Notifications SL5 - PBS New parser PASSED**

- For normally finished jobs

ON UI:

```

$ date; glite-ce-job-submit -a -r emi-demo13.cnaf.infn.it:8443/cream-pbs-demo -a /home/bertocco
Thu May 3 15:26:09 CEST 2012
https://emi-demo13.cnaf.infn.it:8443/CREAM431692435
$ date; glite-ce-job-status https://emi-demo13.cnaf.infn.it:8443/CREAM431692435
Thu May 3 15:27:43 CEST 2012

***** JobID=[https://emi-demo13.cnaf.infn.it:8443/CREAM431692435]
Status = [DONE-OK]
ExitCode = [0]

```

On CE CREAM:

```

# grep 431692435 /var/log/cream/glite-ce-bnotifier.log
2012-05-03 15:26:34 Sent for Cream:[BatchJobId="269.emi-demo13.cnaf.infn.it"; JobStatus=2; Change
2012-05-03 15:27:14 Sent for Cream:[BatchJobId="269.emi-demo13.cnaf.infn.it"; JobStatus=4; Change

```

- For cancelled jobs

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### On UI:

```
date; glite-ce-job-submit -a -r emi-demo13.cnaf.infn.it:8443/cream-pbs-demo -a /home/bertocco/t
Thu May 3 15:17:08 CEST 2012
https://emi-demo13.cnaf.infn.it:8443/CREAM585808873
[bertocco@emitestbed08 blah_testing]$ date; glite-ce-job-status https://emi-demo13.cnaf.infn.it:8
Thu May 3 15:17:20 CEST 2012

***** JobID=[https://emi-demo13.cnaf.infn.it:8443/CREAM585808873]
        Status      = [REALLY-RUNNING]

[bertocco@emitestbed08 blah_testing]$ glite-ce-job-cancel https://emi-demo13.cnaf.infn.it:8443/CR

Are you sure you want to cancel specified job(s) [y/n]: y
[bertocco@emitestbed08 blah_testing]$ date; glite-ce-job-status https://emi-demo13.cnaf.infn.it:8
Thu May 3 15:17:43 CEST 2012

***** JobID=[https://emi-demo13.cnaf.infn.it:8443/CREAM585808873]
        Status      = [CANCELLED]
        ExitCode    = []
        Description = [Cancelled by user]
```

### On CE CREAM:

```
# grep 585808873 /var/log/cream/glite-ce-bnotifier.log
2012-05-03 15:17:14 Sent for Cream:[BatchJobId="268.emi-demo13.cnaf.infn.it"; JobStatus=2; Change
2012-05-03 15:18:14 Sent for Cream:[BatchJobId="268.emi-demo13.cnaf.infn.it"; JobStatus=3; Change
```

- For suspended and resumed jobs:

### On UI:

```
$ glite-ce-job-status https://emi-demo13.cnaf.infn.it:8443/CREAM641304895

***** JobID=[https://emi-demo13.cnaf.infn.it:8443/CREAM641304895]
        Status      = [IDLE]

$ glite-ce-job-suspend https://emi-demo13.cnaf.infn.it:8443/CREAM641304895

Are you sure you want to suspend specified job(s) [y/n]: y
[bertocco@emitestbed08 blah_testing]$ glite-ce-job-status https://emi-demo13.cnaf.infn.it:8443/CR

***** JobID=[https://emi-demo13.cnaf.infn.it:8443/CREAM641304895]
        Status      = [HELD]

$ glite-ce-job-resume https://emi-demo13.cnaf.infn.it:8443/CREAM641304895

Are you sure you want to resume specified job(s) [y/n]: y
[bertocco@emitestbed08 blah_testing]$ glite-ce-job-status https://emi-demo13.cnaf.infn.it:8443/CR

***** JobID=[https://emi-demo13.cnaf.infn.it:8443/CREAM641304895]
        Status      = [HELD]

$ glite-ce-job-status https://emi-demo13.cnaf.infn.it:8443/CREAM641304895

***** JobID=[https://emi-demo13.cnaf.infn.it:8443/CREAM641304895]
        Status      = [IDLE]

$ glite-ce-job-status https://emi-demo13.cnaf.infn.it:8443/CREAM641304895

***** JobID=[https://emi-demo13.cnaf.infn.it:8443/CREAM641304895]
        Status      = [DONE-OK]
        ExitCode    = [0]
```

Check Notifications SL5 - PBS New parser PASSED

On CE CREAM:

```
# grep 641304895 /var/log/cream/glite-ce-bnotifier.log
[BatchJobId="291.emi-demo13.cnaf.infn.it"; JobStatus=1; ChangeTime="2012-05-03 15:54:46"; ClientJ
2012-05-03 15:56:14 Sent for Cream:[BatchJobId="291.emi-demo13.cnaf.infn.it"; JobStatus=5; Change
[BatchJobId="291.emi-demo13.cnaf.infn.it"; JobStatus=1; ChangeTime="2012-05-03 15:57:16"; ClientJ
[BatchJobId="291.emi-demo13.cnaf.infn.it"; JobStatus=2; ChangeTime="2012-05-03 16:03:36"; WorkerN
[BatchJobId="291.emi-demo13.cnaf.infn.it"; JobStatus=4; ChangeTime="2012-05-03 16:04:36"; WorkerN
```

**Check Notifications SL5 - PBS Old parser Not Tested**

**Check Notifications SL6 - LSF New parser Not Tested**

**Check Notifications SL6 - LSF Old parser Not Tested**

- Noramally finished jobs Passed ---+++++ Check Notifications SL6 - PBS New parser PASSED
- For normally finished jobs

ON UI:

```
$ glite-ce-job-status https://emitestbed29.cnaf.infn.it:8443/CREAM400857385
```

```
***** JobID=[https://emitestbed29.cnaf.infn.it:8443/CREAM400857385]
Status = [REALLY-RUNNING]
```

```
$ glite-ce-job-status https://emitestbed29.cnaf.infn.it:8443/CREAM400857385
```

```
***** JobID=[https://emitestbed29.cnaf.infn.it:8443/CREAM400857385]
Status = [DONE-OK]
ExitCode = [0]
```

ON CE CREAM:

```
# grep 400857385 /var/log/cream/glite-ce-bnotifier.log
2012-05-03 16:38:46 Sent for Cream:[BatchJobId="36.emitestbed29.cnaf.infn.it"; JobStatus=2; Chang
2012-05-03 16:39:46 Sent for Cream:[BatchJobId="36.emitestbed29.cnaf.infn.it"; JobStatus=4; Chang
```

- For cancelled jobs:

ON UI:

```
date; glite-ce-job-submit -a -r emitestbed29.cnaf.infn.it:8443/cream-pbs-demo -a /home/bertocco
Thu May 3 16:42:28 CEST 2012
```

```
https://emitestbed29.cnaf.infn.it:8443/CREAM060970469
```

```
$ glite-ce-job-status https://emitestbed29.cnaf.infn.it:8443/CREAM060970469
```

```
***** JobID=[https://emitestbed29.cnaf.infn.it:8443/CREAM060970469]
Status = [REALLY-RUNNING]
```

```
$ glite-ce-job-cancel https://emitestbed29.cnaf.infn.it:8443/CREAM060970469
```

```
Are you sure you want to cancel specified job(s) [y/n]: y
```

```
$ glite-ce-job-status https://emitestbed29.cnaf.infn.it:8443/CREAM060970469
```

```
***** JobID=[https://emitestbed29.cnaf.infn.it:8443/CREAM060970469]
Status = [CANCELLED]
ExitCode = []
Description = [Cancelled by user]
```

On CE CREAM:

Check Notifications SL5 - PBS Old parser Not Tested

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```
# grep 060970469 /var/log/cream/glite-ce-bnotifier.log
2012-05-03 16:42:46 Sent for Cream:[BatchJobId="37.emitestbed29.cnaf.infn.it"; JobStatus=3; Chang
```

- For suspended and resumed jobs:

### On UI:

```
# glite-ce-job-submit -a -r emitestbed29.cnaf.infn.it:8443/cream-pbs-demo -a /home/bertocco/tes
https://emitestbed29.cnaf.infn.it:8443/CREAM535518208
```

```
$ glite-ce-job-status https://emitestbed29.cnaf.infn.it:8443/CREAM535518208
```

```
***** JobID=[https://emitestbed29.cnaf.infn.it:8443/CREAM535518208]
        Status      = [IDLE]
```

```
$ glite-ce-job-suspend https://emitestbed29.cnaf.infn.it:8443/CREAM535518208
```

```
Are you sure you want to suspend specified job(s) [y/n]: y
```

```
$ glite-ce-job-status https://emitestbed29.cnaf.infn.it:8443/CREAM535518208
```

```
***** JobID=[https://emitestbed29.cnaf.infn.it:8443/CREAM535518208]
        Status      = [HELD]
```

```
$ glite-ce-job-resume https://emitestbed29.cnaf.infn.it:8443/CREAM535518208
```

```
Are you sure you want to resume specified job(s) [y/n]: y
```

```
$ glite-ce-job-status https://emitestbed29.cnaf.infn.it:8443/CREAM535518208
```

```
***** JobID=[https://emitestbed29.cnaf.infn.it:8443/CREAM535518208]
        Status      = [DONE-OK]
        ExitCode     = [0]
```

### On CE CREAM:

```
grep 535518208 /var/log/cream/glite-ce-bnotifier.log
[BatchJobId="40.emitestbed29.cnaf.infn.it"; JobStatus=1; ChangeTime="2012-05-03 17:00:09"; Client
2012-05-03 17:00:46 Sent for Cream:[BatchJobId="40.emitestbed29.cnaf.infn.it"; JobStatus=5; Chang
2012-05-03 17:01:06 Sent for Cream:[BatchJobId="40.emitestbed29.cnaf.infn.it"; JobStatus=2; Chang
[BatchJobId="40.emitestbed29.cnaf.infn.it"; JobStatus=2; ChangeTime="2012-05-03 17:01:10"; Worker
2012-05-03 17:02:46 Sent for Cream:[BatchJobId="40.emitestbed29.cnaf.infn.it"; JobStatus=4; Chang
```

### Check Notifications SL6 - PBS Old parser Not Tested

### Regression tests

Note: All bug tests are performed on CREAM EMI 2 SL5 old and new parser. Bugs signed with 'NA' are not certified because difficult to reproduce.

### Verification attached bugs

**bug #86238: blahpd doesn't check the status of its daemons when idling** **FIXED**

```
=====
Bug 86238 :: Regression test of bug #86238 blahpd doesn't check the status ...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
bug_86238 | PASS |
-----
```

### Check Notifications SL6 - LSF Old parser Not Tested

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Bug 86238 :: Regression test of bug #86238 blahpd doesn't check th... | PASS |  
2 critical tests, 2 passed, 0 failed  
2 tests total, 2 passed, 0 failed  
=====

**bug #86918: Request for passing all submit command attributes to the local configuration script. FIXED**

### On CREAM

```
cat /tmp/filewithenv
MANPATH=/opt/glite/share/man::
ceid=emi-demo13.cnaf.infn.it:8443/cream-pbs-demo
HOSTNAME=emi-demo13.cnaf.infn.it
TERM=vanilla
SHELL=/bin/sh
GRID_ENV_LOCATION=/usr/libexec
HISTSIZE=1000
CATALINA_HOME=/usr/share/tomcat5
BLAHPD_CONFIG_LOCATION=/etc/blah.config
ClientJobId=cream_483887197
X509_CERT_DIR=/etc/grid-security/certificates/
GRIDMAPDIR=/etc/grid-security/gridmapdir
USER=tst22
LS_COLORS=
SUDO_USER=tomcat
SUDO_UID=91
LCG_LOCATION=/usr
USERNAME=tst22
MAIL=/var/spool/mail/tst22
PATH=/bin:/usr/bin:/home/tst22/bin
GLITE_HOST_KEY=/home/glite/.certs/hostkey.pem
uniquejobid=CREAM483887197
INPUTRC=/etc/inputrc
PWD=/var/tmp
LANG=en_US.UTF-8
GLITE_USER=glite
gridType=pbs
x509UserProxySubject=CN=Sara Bertocco,L=Padova,OU=Personal Certificate,O=INFN,C=IT
BLAHPD_LOCATION=/usr
HOME=/home/tst22
SUDO_COMMAND=/usr/libexec/pbs_submit.sh -x /var/cream_sandbox/testers/CN_Sara_Bertocco_L_Padova_O
SHLVL=2
GLITE_LOCATION_VAR=/var
GLOBUS_TCP_PORT_RANGE=20000,25000
VirtualOrganisation=testers.eu-emi.eu
LOGNAME=tst22
queue=demo
LESSOPEN=|/usr/bin/lesspipe.sh %s
x509UserProxyFQAN="userFQAN=/testers.eu-emi.eu/Role=NULL/Capability=NULL"
SUDO_GID=91
GLITE_LOCATION=/usr
GLITE_HOST_CERT=/home/glite/.certs/hostcert.pem
G_BROKEN_FILENAMES=1
_=/bin/env

# cat /tmp/filewithenv |grep x509UserProxySubject
x509UserProxySubject=CN=Sara Bertocco,L=Padova,OU=Personal Certificate,O=INFN,C=IT
[root@emi-demo13 ~]# cat /tmp/filewithenv |grep x509UserProxyFQAN
x509UserProxyFQAN="userFQAN=/testers.eu-emi.eu/Role=NULL/Capability=NULL"
```

**bug #89504: Repeated notification problem for BLParserLSF NA**

**bug #86238: blahpd doesn't check the status of its daemons when idling FIXED**

**bug #90082: BUdaterPBS workaround if tracejob is in infinite loop NA**

**bug #90101: Missing 'lwd' Attribute when transferring files with the 'TransferInput' attribute may cause thread to loop NA**

**bug #91318: Request to change functions in blah\_common\_submit\_functions.sh FIXED**

Verified, in /usr/libexec/blah\_common\_submit\_functions.sh the requested rows are present:

```
748 function bls_add_job_wrapper ()
749 {
750   bls_start_job_wrapper >> $bls_tmp_file
751   bls_finish_job_wrapper >> $bls_tmp_file
752   bls_test_working_dir
753 }
```

**bug #92554: BNotifier problem can leave connection in CLOSE\_WAIT state NA**

**bug #84261: BNotifier on CREAM CE seems to not restart cleanly FIXED**

```
=====
Bug 84261 :: Regression test of bug #84261 BNotifier on CREAM CE seems to n...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
bug_84261 | PASS |
-----
Bug 84261 :: Regression test of bug #84261 BNotifier on CREAM CE s... | PASS |
2 critical tests, 2 passed, 0 failed
2 tests total, 2 passed, 0 failed
=====
```

- Report

**Verification old bugs**

**bug #81824: yaim-cream-ce should manage the attribute bupdater\_loop\_interval FIXED**

```
=====
Bug 81824 :: Regression test of bug #81824 yaim-cream-ce should manage the ...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
bug_81824 | PASS |
-----
Bug 81824 :: Regression test of bug #81824 yaim-cream-ce should ma... | PASS |
2 critical tests, 2 passed, 0 failed
2 tests total, 2 passed, 0 failed
=====
```

- Report

-- SaraBertocco - 2012-05-03

This topic: IGIRelease > Task23312  
Topic revision: r6 - 2012-05-08 - MassimoSgaravatto



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