

# BLAH Testplan

## Unit tests

Not available

## Deployment tests

Since BLAH is deployed as part of the CREAM-CE, the installation and configuration of a CREAM CE should be considered. This is documented in the CREAM system administrator guide .

## System tests

### Basic functionality tests

#### Test submission

On each supported batch system (now LSF, PBS and GE) the following tests should be performed:

- Test plain submission
- Test submission with file transfers

The first two tests are implemented with the attached scripts.

To run it:

- Log on on the CREAM CE as user tomcat
- Create the directory /tmp/blex and cd on this directory
- Copy a proxy of yours and install it in this directory. Call it /tmp/blex/proxy. It should have tomcat.tomcat as ownership
- wget and untar the blex.tar.gz
- Edit and customize the file blex\_local\_conf.sh:
  - ◆ blex\_x509userproxy should be "/tmp/blex/proxy"
  - ◆ blex\_blah\_path= should be "/usr/bin/blahpd"
  - ◆ blex\_iwd should be "/tmp/blex"
  - ◆ blex\_file\_storage should be "/tmp"
  - ◆ blex\_desired\_batchsystem should be set to "lsf" or "pbs" or "sge" according to the batch system where to perform the test
  - ◆ blex\_desired\_queue should be set to the queue where to submit the jobs
  - ◆ blex\_setup\_glexec should be set to 0
  - ◆ blex\_setup\_sudo should be set to 1
  - ◆ blex\_setup\_sudo\_user should be set to a valid existing local account
  - ◆ blex\_proxy\_in\_submit\_cmd should be set to 1
  - ◆ blex\_n\_DEFAULT\_jobs should be set to 0
  - ◆ blex\_n\_HOLDRELEASE\_jobs should be set to 0
  - ◆ blex\_n\_RENEWAL\_jobs should be set to 0
  - ◆ blex\_n\_TRANSFERFILES\_jobs should be set to the number of jobs to be submitted. 1000 can be a valid value
- Run the script blah\_exerciser.sh
- Check its output in the stdout. It should report that all jobs succeeded and 0 failed.

## BLParser test

The following test of the blparser (configured in old and new way) should be performed:

- Test that notifications are sent for a job which finishes normally
  - Test that notifications are sent for a job which is cancelled
  - Test that notifications are sent for a job which is suspended and then resumed
- 

Test that notifications are sent for a job which finishes normally with old blparser

First of all configure a CREAM-CE using the old blparser configured in the old way as described at:

[http://wiki.italiangrid.it/twiki/bin/view/CREAM/SystemAdministratorGuideForEMI1#1\\_2\\_4\\_Choose\\_the\\_BLAH\\_BLAH](http://wiki.italiangrid.it/twiki/bin/view/CREAM/SystemAdministratorGuideForEMI1#1_2_4_Choose_the_BLAH_BLAH)

Submit this JDL to a CREAM-CE using the `glite-ce-job-submit` command:

```
glite-ce-job-submit -a -r <CEId> test1.jdl
```

```
test1.jd:
```

```
[
executable="/bin/sleep";
arguments="100";
]
```

After the job completed its execution (it must be needed to then wait for a couple of minutes), check the log file `/var/log/cream/glite-xxxparser.log`. For the relevant job there should be:

- A notification with JobStatus=1 (this can be missing)
  - A notification with JobStatus=2 (this can be missing)
  - A notification with JobStatus=4 (this must be there)
- 

Test that notifications are sent for a job which is cancelled with old blparser

First of all configure a CREAM-CE using the old blparser configured in the old way as described at:

[http://wiki.italiangrid.it/twiki/bin/view/CREAM/SystemAdministratorGuideForEMI1#1\\_2\\_4\\_Choose\\_the\\_BLAH\\_BLAH](http://wiki.italiangrid.it/twiki/bin/view/CREAM/SystemAdministratorGuideForEMI1#1_2_4_Choose_the_BLAH_BLAH)

Submit this JDL to a CREAM-CE using the `glite-ce-job-submit` command:

```
glite-ce-job-submit -a -r <CEId> test1.jdl
```

```
test1.jd:
```

```
[
executable="/bin/sleep";
arguments="100";
]
```

Then cancels the job with `glite-ce-job-cancel`.

After the job is actually cancelled (it must be needed to then wait for a couple of minutes), check the log file `/var/log/cream/glite-xxxparser.log`. For the relevant job there should be:

- A notification with JobStatus=1 (this can be missing)
- A notification with JobStatus=2 (this can be missing)

- A notification with JobStatus=3 (this must be there)
- 

Test that notifications are sent for a job which is suspended and then resumed with old blparser

First of all configure a CREAM-CE using the old blparser configured in the old way as described at:

[http://wiki.italiangrid.it/twiki/bin/view/CREAM/SystemAdministratorGuideForEMI1#1\\_2\\_4\\_Choose\\_the\\_BLAH\\_BL](http://wiki.italiangrid.it/twiki/bin/view/CREAM/SystemAdministratorGuideForEMI1#1_2_4_Choose_the_BLAH_BL)

Submit this JDL to a CREAM-CE using the `glite-ce-job-submit` command:

```
glite-ce-job-submit -a -r <CEId> test1.jdl
```

test1.jdl:

```
[
executable="/bin/sleep";
arguments="200";
]
```

Then suspends the job with `glite-ce-job-suspend`.

Check the batch system and verify than the job is actually suspended. Then wait for 5 minutes and then resume the job using the `glite-ce-job-resume` command.

After the job finishes (it must be needed to then wait for a couple of minutes), check the log file `/var/log/cream/glite-xxxparser.log`. For the relevant job there should be:

- A notification with JobStatus=1 (this can be missing)
- A notification with JobStatus=2 (this can be missing)
- A notification with JobStatus=5 (this must be there)
- A notification with JobStatus=2 (this can be missing)
- A notification with JobStatus=4 (this must be there)

Note that with PBS and SGE it is possible to suspend only IDLE (i.e. not yet running) jobs.

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Test that notifications are sent for a job which finishes normally with new blparser

First of all configure a CREAM-CE using the new blparser configured in the old way as described at:

[http://wiki.italiangrid.it/twiki/bin/view/CREAM/SystemAdministratorGuideForEMI1#1\\_2\\_4\\_Choose\\_the\\_BLAH\\_BL](http://wiki.italiangrid.it/twiki/bin/view/CREAM/SystemAdministratorGuideForEMI1#1_2_4_Choose_the_BLAH_BL)

Submit this JDL to a CREAM-CE using the `glite-ce-job-submit` command:

```
glite-ce-job-submit -a -r <CEId> test1.jdl
```

test1.jdl:

```
[
executable="/bin/sleep";
arguments="100";
]
```

After the job completed its execution (it must be needed to then wait for a couple of minutes), check the log file `/var/log/cream/glite-ce-bnotifier.log`. For the relevant job there should be:

- A notification with JobStatus=1 (this can be missing)

- A notification with JobStatus=2 (this can be missing)
  - A notification with JobStatus=4 (this must be there)
- 

Test that notifications are sent for a job which is cancelled with new blparser

First of all configure a CREAM-CE using the old blparser configured in the new way as described at:

[http://wiki.italiangrid.it/twiki/bin/view/CREAM/SystemAdministratorGuideForEMI1#1\\_2\\_4\\_Choose\\_the\\_BLAH\\_BL](http://wiki.italiangrid.it/twiki/bin/view/CREAM/SystemAdministratorGuideForEMI1#1_2_4_Choose_the_BLAH_BL)

Submit this JDL to a CREAM-CE using the `glite-ce-job-submit` command:

```
glite-ce-job-submit -a -r <CEId> test1.jdl
```

test1.jdl:

```
[
executable="/bin/sleep";
arguments="100";
]
```

Then cancels the job with `glite-ce-job-cancel`.

After the job is actually cancelled (it must be needed to then wait for a couple of minutes), check the log file `/var/log/cream/glite-ce-bnotifier.log`. For the relevant job there should be:

- A notification with JobStatus=1 (this can be missing)
  - A notification with JobStatus=2 (this can be missing)
  - A notification with JobStatus=3 (this must be there)
- 

Test that notifications are sent for a job which is suspended and then resumed with new blparser

First of all configure a CREAM-CE using the old blparser configured in the new way as described at:

[http://wiki.italiangrid.it/twiki/bin/view/CREAM/SystemAdministratorGuideForEMI1#1\\_2\\_4\\_Choose\\_the\\_BLAH\\_BL](http://wiki.italiangrid.it/twiki/bin/view/CREAM/SystemAdministratorGuideForEMI1#1_2_4_Choose_the_BLAH_BL)

Submit this JDL to a CREAM-CE using the `glite-ce-job-submit` command:

```
glite-ce-job-submit -a -r <CEId> test1.jdl
```

test1.jdl:

```
[
executable="/bin/sleep";
arguments="200";
]
```

Then suspends the job with `glite-ce-job-suspend`.

Check the batch system and verify than the job is actually suspended. Then wait for 5 minutes and then resume the job using the `glite-ce-job-resume` command.

After the job finishes (it must be needed to then wait for a couple of minutes), check the log file `/var/log/cream/glite-ce-bnotifier.log`. For the relevant job there should be:

- A notification with JobStatus=1 (this can be missing)
- A notification with JobStatus=2 (this can be missing)

- A notification with JobStatus=5 (this must be there)
- A notification with JobStatus=2 (this can be missing)
- A notification with JobStatus=4 (this must be there)

Note that with PBS and SGE it is possible to suspend only IDLE (i.e. not yet running) jobs.

### **Regression tests**

See: <http://wiki.italiangrid.it/twiki/bin/view/CREAM/RegressionTestWorkPlan>

### **Standard compliance and conformance tests**

Not available

### **Inter-component tests**

Not available

-- MassimoSgaravatto - 2011-12-20

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This topic: CREAM > BlahTestWorkPlan

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