

Quality Criteria Verification
Executive Summary
For QCV, Stage Rollout, DMSU and EGI internal

Name of the component	Globus-gram5		
Release	5.2.2	RT Ticket	4425
Software Provider	IGE		
	Mattias Ellert	mattias.ellert@fysast.uu.se	
Validator	Name:	E-Mail	
	Enol Fernández	enolfc@ifca.unican.es	
V. Hours Worked	1:00		
Component status	Accepted	Date	26/10/2012
Verification start date	25/10/2012	Verification end date	26/10/2012

Summary:

This is a release of GRAM5 that introduces mostly bug fixes and internal improvements. Tested with a single host with fork and torque (a very simple installation was performed in the same GRAM5 machine). In both cases the tests were successful.

GGUS Tickets:

None

Summary of Quality Criteria verification:

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
TP				
VLD	15		2	17
	Specific Quality Criteria			
TP				
VLD	18		13	31

RELEASE:	IGE.globus-gram5.s	VALIDATOR:	Enol Fernandez	RT TICKET:
Criteria	Accepted (Y/N/NA)	Tested (TP/VLD)	Comments	

4425

DOCUMENTATION QC

GENERIC_DOC_1 (Functional Description)	Y	VLD	All docs available from: http://globus.org.eu/toolkit/docs/5.2/5.2.2/gram5/
GENERIC_DOC_2 (Release Notes)	Y	VLD	All docs available from: http://globus.org.eu/toolkit/docs/5.2/5.2.2/gram5/
GENERIC_DOC_3 (User Documentation)	Y	VLD	All docs available from: http://globus.org.eu/toolkit/docs/5.2/5.2.2/gram5/
GENERIC_DOC_4 (Online help (man pages))	Y	VLD	All docs available from: http://globus.org.eu/toolkit/docs/5.2/5.2.2/gram5/
GENERIC_DOC_5 (API Documentation)	Y	VLD	All docs available from: http://globus.org.eu/toolkit/docs/5.2/5.2.2/gram5/
GENERIC_DOC_6 (Administrator Documentation)	Y	VLD	All docs available from: http://globus.org.eu/toolkit/docs/5.2/5.2.2/gram5/
GENERIC_DOC_7 (Service Reference Card)	Y	VLD	All docs available from: http://globus.org.eu/toolkit/docs/5.2/5.2.2/gram5/
GENERIC_DOC_8 (Software License)	Y	VLD	Apache
GENERIC_DOC_9 (Release changes testing)	Y	VLD	All docs available from: http://globus.org.eu/toolkit/docs/5.2/5.2.2/gram5/

SOFTWARE DISTRIBUTION QC

GENERIC_DIST_1 (Source Code Availability)	Y	VLD	Source available at globus repo
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	Binary installed without issues

SOFTWARE FEATURES QC

GENERIC_SOFT_1 (Backwards Compatibility)	Not tested	VLD	No previous UI available for testing
GENERIC_SOFT_2 (New features testing)	Y	VLD	Changes are internal improvements, tested basic features

SERVICE CRITERIA QC

GENERIC_SERVICE_1 (Service control and status)	Y	VLD	Startup scripts available and working
GENERIC_SERVICE_2 (Log Files)	Y	VLD	Log files in standard locations available
GENERIC_SERVICE_3 (Service Reliability)	NA	VLD	Tests available at Quality Report
GENERIC_SERVICE_4 (Service Robustness)	NA	VLD	Tests available at Quality Report
GENERIC_SERVICE_6 (Default Password Config)	Y	VLD	No default password config

SECURITY QC

GENERIC_SEC_1 (World Writable Files)	Y	VLD	See log report
GENERIC_SEC_3 (Passwords in world readable)	Y	VLD	No passwords stored in files

MISCELLANEOUS QC

GENERIC_MISC_2 (Bug Tracking System)	Y	VLD	IGE enrolled in GGUS
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AUTHENTICATION QC

AUTHN_IFACE_1 (X.509 Certificate support)	Y	VLD	Tested with proxies
AUTHN_DELEG_1 (Delegation Interface)	NA	VLD	No delegation

AUTHORISATION QC

AUTHZ_PCYDEF_3 (Ban User/FQAN)	NA	VLD	Only white-list users, no banning
AUTHZ_PCYDEF_4 (Allowed users definition)	Y	VLD	Only with users (no groups)
AUTHZ_PEP_1 (Policy Enforcement)	Y	VLD	Correct enforcement of policy
AUTHZ_PEP_2 (User Mapping)	Y	VLD	Simple accounts correctly mapped

JOB EXECUTION QC

JOBEXEC_IFACE_1 (Job Execution Interface)	Y	VLD/TP	GRAM5 interface supported (simple tests + reports from TP)
JOBEXEC_JOB_1 (Simple Job)	Y	VLD	See report
JOBEXEC_JOB_2 (Simple Job with input/output)	Y	VLD	See report
JOBEXEC_JOB_3 (Cancel Job)	Y	VLD	See report

JOBEXEC_EXECMNGR_1 (Not Invasive Deploy)	Y	VLD	No changes needed in the deployment
JOBEXEC_EXECMNGR_2 (Job Management)	Y	VLD	Indirectly tested by JOBEXEC_JOB_*
JOBEXEC_EXECMNGR_3 (Information Retrieval)	NA	VLD	No info published
JOBEXEC_AVAIL_1 (Service Redundancy)	Y	VLD	No problem in having more than one GRAM5
JOBEXEC_AVAIL_2 (Self Disabling Mechanism)	NA	VLD	Not available
JOBEXEC_AVAIL_4 (Timely Job Status Updates)	Y	VLD	See report
PARALLEL JOB QC			
PARALLEL_JOB_1 (Simple parallel job submission)	Y	VLD	See report, used count attribute
PARALLEL_JOB_2 (Single machine parallel job)	NA	VLD	host_count available, not enough resources for testing
PARALLEL_JOB_3 (Fine grained mapping parallel)	NA	VLD	Should be tested with real LRMS
PARALLEL_MPI_1 (Precompiled MPI job Execution)	NA	VLD	Functionality not provided by GRAM, may be achieved by external tools
PARALLEL_MPI_2 (MPI job Execution from source)	NA	VLD	Functionality not provided by GRAM, may be achieved by external tools
PARALLEL_OMP_1 (Precompiled OpenMP job Execution)	NA	VLD	Functionality not provided by GRAM, may be achieved by external tools
PARALLEL_OMP_2 (OpenMP job Execution from source)	NA	VLD	Functionality not provided by GRAM, may be achieved by external tools
MONITORING PROBES QC			
MON_PROBE_GENERIC_1 (Certificate Lifetime)	NA	VLD	No probe available
MON_PROBE_GENERIC_2 (Service Probe)	NA	VLD	No probe available
ACCOUNTING CAPABILITY QC			
ACC_JOBEXEC_1 (Job Execution Appliances Available)	NA	VLD	Not provided by gram5
CLIENT TOOLS QC			
CLIENT_TOOLS_1 (Command line Options coherence)	Y	VLD	Man and -h options ok
CLIENT_TOOLS_2 (Error Messages)	Y	VLD	Errors are descriptive

Validator comments:

Installation:

```
# wget http://admin-repo.egi.eu/sw/unverified/umd-2.ige.globus-gram5.sl5.x86_64/5/2/2/repofiles/IGE.globus-gram5.sl5.x86_64.repo -O /etc/yum.repos.d/verification.repo
--2012-10-24 16:07:39-- http://admin-repo.egi.eu/sw/unverified/umd-2.ige.globus-gram5.sl5.x86_64/5/2/2/repofiles/IGE.globus-gram5.sl5.x86_64.repo
Resolving admin-repo.egi.eu... 195.251.54.94
Connecting to admin-repo.egi.eu|195.251.54.94|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 341 [text/plain]
Saving to: `/etc/yum.repos.d/verification.repo'

100%[=====>] 341
--.-K/s   in 0s

2012-10-24 16:07:39 (2.83 MB/s) - `/etc/yum.repos.d/verification.repo' saved
[341/341]

[root@test27 ~]# yum install ige-meta-globus-gram5
Loaded plugins: kernel-module, protectbase
133 packages excluded due to repository protections
Setting up Install Process
Resolving Dependencies
[...]
Installed:
  ige-meta-globus-gram5.noarch 0:3.0-1.el5

Dependency Installed:
  e2fsprogs-devel.x86_64 0:1.39-23.el5
  fedora-usermgmt.noarch 0:0.8.91-1.el5
  fedora-usermgmt-core.noarch 0:0.8.91-1.el5
  fedora-usermgmt-default-fedora-setup.noarch 0:0.8.91-1.el5
  fedora-usermgmt-shadow-utils.noarch 0:0.8.91-1.el5
  globus-callout.x86_64 0:2.2-1.el5
  globus-callout-devel.x86_64 0:2.2-1.el5
  globus-common.x86_64 0:14.7-1.el5
  globus-common-devel.x86_64 0:14.7-1.el5
  globus-common-progs.x86_64 0:14.7-1.el5
  globus-core.x86_64 0:8.9-1.el5
  globus-ftp-client.x86_64 0:7.4-1.el5
  globus-ftp-control.x86_64 0:4.4-1.el5
  globus-gass-cache.x86_64 0:8.1-2.el5
  globus-gass-cache-program.x86_64 0:5.2-1.el5
  globus-gass-copy.x86_64 0:8.6-1.el5
  globus-gass-copy-progs.x86_64 0:8.6-1.el5
  globus-gass-server-ez.x86_64 0:4.3-1.el5
  globus-gass-transfer.x86_64 0:7.2-1.el5
  globus-gatekeeper.x86_64 0:9.14-1.el5
  globus-gram-audit.noarch 0:3.2-1.el5
  globus-gram-client.x86_64 0:12.4-1.el5
  globus-gram-client-devel.x86_64 0:12.4-1.el5
  globus-gram-client-doc.x86_64 0:12.4-1.el5
  globus-gram-client-tools.x86_64 0:10.4-1.el5
  globus-gram-job-manager.x86_64 0:13.48-1.1.el5
  globus-gram-job-manager-callout-error.x86_64 0:2.1-2.el5
  globus-gram-job-manager-callout-error-devel.x86_64 0:2.1-2.el5
  globus-gram-job-manager-callout-error-doc.x86_64 0:2.1-2.el5
  globus-gram-job-manager-condor.noarch 0:1.3-1.el5
  globus-gram-job-manager-doc.x86_64 0:13.48-1.1.el5
  globus-gram-job-manager-fork.x86_64 0:1.5-1.el5
  globus-gram-job-manager-fork-setup-poll.x86_64 0:1.5-1.el5
  globus-gram-job-manager-fork-setup-seg.x86_64 0:1.5-1.el5
  globus-gram-job-manager-pbs.x86_64 0:1.5-1.el5
```

globus-gram-job-manager-pbs-setup-poll.x86_64 0:1.5-1.el5
globus-gram-job-manager-pbs-setup-seg.x86_64 0:1.5-1.el5
globus-gram-job-manager-scripts.noarch 0:4.2-2.el5
globus-gram-job-manager-scripts-doc.noarch 0:4.2-2.el5
globus-gram-job-manager-sge.x86_64 0:1.5-1.el5
globus-gram-job-manager-sge-setup-poll.x86_64 0:1.5-1.el5
globus-gram-job-manager-sge-setup-seg.x86_64 0:1.5-1.el5
globus-gram-protocol.x86_64 0:11.3-4.el5
globus-gram-protocol-devel.x86_64 0:11.3-4.el5
globus-gram-protocol-doc.x86_64 0:11.3-4.el5
globus-gsi-callback.x86_64 0:4.3-1.el5
globus-gsi-callback-devel.x86_64 0:4.3-1.el5
globus-gsi-cert-utils.x86_64 0:8.3-1.el5
globus-gsi-cert-utils-devel.x86_64 0:8.3-1.el5
globus-gsi-cert-utils-progs.x86_64 0:8.3-1.el5
globus-gsi-credential.x86_64 0:5.3-1.el5
globus-gsi-credential-devel.x86_64 0:5.3-1.el5
globus-gsi-openssl-error.x86_64 0:2.1-2.el5
globus-gsi-openssl-error-devel.x86_64 0:2.1-2.el5
globus-gsi-proxy-core.x86_64 0:6.2-1.el5
globus-gsi-proxy-core-devel.x86_64 0:6.2-1.el5
globus-gsi-proxy-ssl.x86_64 0:4.1-2.el5
globus-gsi-proxy-ssl-devel.x86_64 0:4.1-2.el5
globus-gsi-sysconfig.x86_64 0:5.3-1.el5
globus-gsi-sysconfig-devel.x86_64 0:5.3-1.el5
globus-gss-assist.x86_64 0:8.6-1.el5
globus-gss-assist-devel.x86_64 0:8.6-1.el5
globus-gssapi-error.x86_64 0:4.1-2.el5
globus-gssapi-error-devel.x86_64 0:4.1-2.el5
globus-gssapi-gsi.x86_64 0:10.7-1.el5
globus-gssapi-gsi-devel.x86_64 0:10.7-1.el5
globus-io.x86_64 0:9.3-1.el5
globus-io-devel.x86_64 0:9.3-1.el5
globus-openssl-module.x86_64 0:3.2-1.el5
globus-openssl-module-devel.x86_64 0:3.2-1.el5
globus-proxy-utils.x86_64 0:5.0-2.el5
globus-rsl.x86_64 0:9.1-2.el5
globus-rsl-devel.x86_64 0:9.1-2.el5
globus-rsl-doc.x86_64 0:9.1-2.el5
globus-scheduler-event-generator.x86_64 0:4.6-1.el5
globus-scheduler-event-generator-devel.x86_64 0:4.6-1.el5
globus-scheduler-event-generator-doc.x86_64 0:4.6-1.el5
globus-scheduler-event-generator-progs.x86_64 0:4.6-1.el5
globus-usage.x86_64 0:3.1-2.el5
globus-xio.x86_64 0:3.3-1.el5
globus-xio-devel.x86_64 0:3.3-1.el5
globus-xio-gsi-driver.x86_64 0:2.3-1.el5
globus-xio-gsi-driver-devel.x86_64 0:2.3-1.el5
globus-xio-popen-driver.x86_64 0:2.3-1.el5
gridengine.x86_64 0:6.1u4-1.el5.1
keyutils-libs-devel.x86_64 0:1.2-1.el5
krb5-devel.x86_64 0:1.6.1-70.el5
libselinux-devel.x86_64 0:1.33.4-5.7.el5
libsepol-devel.x86_64 0:1.15.2-3.el5
libtool-ltdl.x86_64 0:1.5.22-7.el5_4
libtorque.x86_64 0:2.5.7-7.el5
munge.x86_64 0:0.5.8-8.el5
munge-libs.x86_64 0:0.5.8-8.el5
openssl-devel.x86_64 0:0.9.8e-22.el5_8.4
perl-Compress-Zlib.x86_64 0:1.42-1.fc6
perl-DBI.x86_64 0:1.52-2.el5
perl-HTML-Parser.x86_64 0:3.55-1.fc6
perl-HTML-Tagset.noarch 0:3.10-2.1.1
perl-URI.noarch 0:1.35-3
perl-XML-Parser.x86_64 0:2.34-6.1.2.2.1
perl-libwww-perl.noarch 0:5.805-1.1.1
pkgconfig.x86_64 1:0.21-2.el5
torque.x86_64 0:2.5.7-7.el5
torque-client.x86_64 0:2.5.7-7.el5

```
zlib-devel.x86_64 0:1.2.3-3
```

Complete!

Check services:

```
[root@test27 ~]# service globus-gatekeeper
Usage: /etc/init.d/globus-gatekeeper
{start|stop|status|restart|condrestart|try-restart|reload|force-reload}
[root@test27 ~]# service globus-gatekeeper status
globus-gatekeeper is not running
[root@test27 ~]# service globus-gatekeeper start
Started globus-gatekeeper
[root@test27 ~]# service globus-gatekeeper status
globus-gatekeeper is running (pid=3640)
[root@test27 ~]# ps -w 3640
  PID TTY          STAT       TIME COMMAND
 3640 ?            S          0:00 /usr/sbin/globus-gatekeeper -pidfile
/var/run/globus-gatekeeper.pid -p 2119 -l /var/log/globus-gatekeeper
[root@test27 ~]# service globus-gatekeeper stop
Stopped globus-gatekeeper
[root@test27 ~]# service globus-gatekeeper status
globus-gatekeeper is not running
[root@test27 ~]# ps aux | grep gatekeeper
[root@test27 ~]# service globus-gatekeeper start
Started globus-gatekeeper
[root@test27 ~]# ps aux | grep gatekeeper
root      3676  0.0  0.0 69644  888 ?        S    16:21   0:00
/usr/sbin/globus-gatekeeper -pidfile /var/run/globus-gatekeeper.pid -p 2119 -l
/var/log/globus-gatekeeper.log
root      3679  0.0  0.0 61220  776 pts/0    R+   16:21   0:00 grep
gatekeeper
[root@test27 ~]# tail /var/log/globus-gatekeeper.log
TIME: Wed Oct 24 16:21:36 2012
PID: 3640 -- Failure: Gatekeeper shutdown on signal:15
TIME: Wed Oct 24 16:21:51 2012
PID: 3675 -- Notice: 6: /usr/sbin/globus-gatekeeper pid=3675 starting at Wed
Oct 24 16:21:51 2012

TIME: Wed Oct 24 16:21:51 2012
PID: 3675 -- Notice: 6: GRAM contact:
test27.egi.cesga.es:2119:/DC=es/DC=irisgrid/0=cesga/CN=host/test27.egi.cesga.e
s
TIME: Wed Oct 24 16:21:51 2012
PID: 3675 -- ice: 0: GATEKEEPER_ACCT_FD=6 (/var/log/globus-gatekeeper.log)
```

Logs:

- log created in standard location: /var/log/globus-gatekeeper.log and under /var/log/globus

Configuration:

```
[root@test27 torque]# globus-gatekeeper-admin -l
jobmanager-condor [DISABLED]
jobmanager-fork-poll [DISABLED]
jobmanager-fork-seg [DISABLED]
jobmanager-pbs-poll [DISABLED]
jobmanager-pbs-seg [DISABLED]
jobmanager-sge-poll [DISABLED]
jobmanager-sge-seg [DISABLED]
[root@test27 torque]# globus-gatekeeper-admin -e jobmanager-fork-poll -n
jobmanager
```

```

[root@test27 torque]# globus-gatekeeper-admin -e jobmanager-pbs-poll -n
jobmanager-pbs
[root@test27 torque]# globus-gatekeeper-admin -e jobmanager-pbs-seg -n
jobmanager-pbs2
[root@test27 torque]# globus-gatekeeper-admin -l
jobmanager-condor [DISABLED]
jobmanager-fork-poll [ENABLED]
jobmanager-fork-seg [DISABLED]
jobmanager-pbs-poll [ENABLED]
jobmanager-pbs-seg [ENABLED]
jobmanager-sge-poll [DISABLED]
jobmanager-sge-seg [DISABLED]
jobmanager [ALIAS to jobmanager-fork-poll]
jobmanager-pbs [ALIAS to jobmanager-pbs-poll]
jobmanager-pbs2 [ALIAS to jobmanager-pbs-seg]
[root@test27 torque]# globus-scheduler-event-generator-admin -e pbs
[root@test27 torque]# globus-scheduler-event-generator-admin -l
fork [DISABLED]
pbs [ENABLED]
sge [DISABLED]
[root@test27 torque]#
[root@test27 torque]# service globus-scheduler-event-generator status
globus-scheduler-event-generator (pbs) is not running
globus-scheduler-event-generator not running, no LRMs installed
[root@test27 torque]# service globus-scheduler-event-generator start
Started globus-scheduler-event-generator for (pbs)
[root@test27 torque]# service globus-scheduler-event-generator status
globus-scheduler-event-generator (pbs) is running (pid=4056)

```

Tests:

1. Created test accounts: enol & test
2. Created grid-mapfile mapping "/DC=es/DC=irisgrid/O=ifca/CN=Enol-Fernandez-delCastillo" to test
3. Copied valid proxy to enol account
4. Job tests with fork:

```

*** Using jobmanager ***
### Simple whoami:
test

### File transfer:
ls -l myfile
-rw-rw-r-- 1 enol enol 73386 Oct 24 16:36 myfile
job:
&
(executable=/bin/ls)
(arguments=-l)
(file_stage_in = ($(GLOBUSRUN_GASS_URL) # "/home/enol/myfile" afile))
output:
total 76
-rw-r--r-- 1 test test 73386 Oct 24 16:36 afile

### Job Status:
job:
&
(executable=/bin/sleep)
(arguments=1m)
job id:
https://test27.egi.cesga.es:35674/16290056541618153796/4693754399514881721/
Wed Oct 24 16:37:00 CEST 2012
Status: ACTIVE
ps -u test:
PID TTY          TIME CMD

```

```

4430 ?      00:00:00 globus-job-mana
4445 ?      00:00:00 globus-job-mana
4478 ?      00:00:00 sleep
Wed Oct 24 16:37:20 CEST 2012
Status: ACTIVE
ps -u test:
  PID TTY          TIME CMD
4430 ?      00:00:00 globus-job-mana
4445 ?      00:00:00 globus-job-mana
4478 ?      00:00:00 sleep
Wed Oct 24 16:37:40 CEST 2012
Status: ACTIVE
ps -u test:
  PID TTY          TIME CMD
4430 ?      00:00:00 globus-job-mana
4445 ?      00:00:00 globus-job-mana
4478 ?      00:00:00 sleep
Wed Oct 24 16:38:00 CEST 2012
Status: ACTIVE
ps -u test:
  PID TTY          TIME CMD
4430 ?      00:00:00 globus-job-mana
Wed Oct 24 16:38:20 CEST 2012
Status: DONE
ps -u test:
  PID TTY          TIME CMD
4430 ?      00:00:00 globus-job-mana

### Job Cancel:
job:
&
(executable=/bin/sleep)
(arguments=10m)
Wed Oct 24 16:38:40 CEST 2012
job id:
https://test27.egi.cesga.es:35674/16290056541722164096/4693754399514881721/
ACTIVE
ps -u test:
  PID TTY          TIME CMD
4430 ?      00:00:00 globus-job-mana
4513 ?      00:00:00 globus-job-mana
4519 ?      00:00:00 sleep
Wed Oct 24 16:39:40 CEST 2012
Cancelling...
ps -u test:
  PID TTY          TIME CMD
4430 ?      00:00:00 globus-job-mana
4513 ?      00:00:00 globus-job-mana
Status post cancel:
DONE
ps -u test:
  PID TTY          TIME CMD
4430 ?      00:00:00 globus-job-mana
4513 ?      00:00:00 globus-job-mana

### Parallel job:
job:
&
(executable=/bin/ls)
(arguments=-ltr)
(count=2)
output:
total 76
-rw-r--r-- 1 test test 73386 Oct 24 16:36 afile
total 76
-rw-r--r-- 1 test test 73386 Oct 24 16:36 afile

```


5. Job tests with pbs (poll):

```
*** Using jobmanager-pbs ***
### Simple whoami:
test

### File transfer:
ls -l myfile
-rw-rw-r-- 1 enol enol 118938 Oct 24 16:41 myfile
job:
&
(executable=/bin/ls)
(arguments=-l)
(file_stage_in = ($(GLOBUSRUN_GASS_URL) # "/home/enol/myfile" afile))
output:
total 124
-rw-r--r-- 1 test test 118938 Oct 24 16:41 afile

### Job Status:
job:
&
(executable=/bin/sleep)
(arguments=1m)
job id:
https://test27.egi.cesga.es:51662/16290056542228456921/4693754399514824124/
Wed Oct 24 16:41:10 CEST 2012
Status: ACTIVE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
67.test27       STDIN         test          0 R testq
Wed Oct 24 16:41:30 CEST 2012
Status: ACTIVE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
67.test27       STDIN         test          0 R testq
Wed Oct 24 16:41:50 CEST 2012
Status: ACTIVE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
67.test27       STDIN         test          00:00:00 R testq
Wed Oct 24 16:42:10 CEST 2012
Status: DONE
PBS Status:

### Job Cancel:
job:
&
(executable=/bin/sleep)
(arguments=10m)
Wed Oct 24 16:42:30 CEST 2012
job id:
https://test27.egi.cesga.es:51662/16290057638208286986/4693754399514824124/
ACTIVE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
68.test27       STDIN         test          0 R testq
Wed Oct 24 16:43:31 CEST 2012
Cancelling...
PBS Status:
Status post cancel:
DONE
PBS Status:
```

6. Job tests with pbs (seg):

```
*** Using jobmanager-pbs2 ***
### Simple whoami:
test

### File transfer:
ls -l myfile
-rw-rw-r-- 1 enol enol 37393 Oct 24 16:32 myfile
job:
&
(executable=/bin/ls)
(arguments=-l)
(file_stage_in = ($(GLOBUSRUN_GASS_URL) # "/home/enol/myfile" afile))
output:
total 40
-rw-r--r-- 1 test test 37393 Oct 24 16:32 afile

### Job Status:
job:
&
(executable=/bin/sleep)
(arguments=1m)
job id:
https://test27.egi.cesga.es:53367/16290055441000236951/4693754399514878647/
Wed Oct 24 16:32:08 CEST 2012
Status: PENDING
PBS Status:
Job id          Name          User          Time Use S Queue
-----
63.test27      STDIN          test          0 R testq
Wed Oct 24 16:32:28 CEST 2012
Status: ACTIVE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
63.test27      STDIN          test          0 R testq
Wed Oct 24 16:32:48 CEST 2012
Status: ACTIVE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
63.test27      STDIN          test          00:00:00 R testq
Wed Oct 24 16:33:09 CEST 2012
Status: ACTIVE
PBS Status:
Wed Oct 24 16:33:29 CEST 2012
Status: DONE
PBS Status:

### Job Cancel:
job:
&
(executable=/bin/sleep)
(arguments=10m)
Wed Oct 24 16:33:49 CEST 2012
job id:
https://test27.egi.cesga.es:53367/16290055440462389971/4693754399514878647/
PENDING
PBS Status:
Job id          Name          User          Time Use S Queue
-----
64.test27      STDIN          test          0 R testq
Wed Oct 24 16:34:50 CEST 2012
Cancelling...
```

```
PBS Status:  
Status post cancel:  
DONE  
PBS Status:
```

7. Look for world writable files:

```
# find / -xdev -type f -perm -o+w -exec ls -l {} \;
```

Not applicable Quality Criteria

Specific Functional Tests to be repeated in SR:

Test number	Description	Motivation

Specific Non-functional tests (Scalability, etc...) to be repeated in SR:

Test number	Description	Motivation

Comments for UMD QC definition (TSA2.2):

Comments for SR (TSA1.3):

Comments for DMSU (TSA2.5):

Comments for TP: