

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

Name of the component	globus-gram5-ige		
Release	5.2.3	RT Ticket	4914
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	19/02/2013
Verification start date	20/02/2013	Verification end date	20/02/2013

Summary:

This is a verification of GRAM5 version 5.2.3 with no new functionality introduced. Gram5 5.2.3 improves memory/process management and the scalability and reliability of the product. Verification was performed against fork + pbs jobmanager. No issues were found.

GGUS Tickets:

None

Summary of Quality Criteria verification:

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
TP				
VLD	19		3	21
	Specific Quality Criteria			
TP				
VLD	15		12	27

RELEASE:	IGE.globus-gram5-id	VALIDATOR:	Enol Fernandez	RT TICKET:	
Criteria	Accepted (Y/N/NA)	Tested (TP/VLD)	Comments		
DOCUMENTATION QC					
GENERIC_DOC_1 (Functional Description)	Y	VLD	All docs available from: http://globus.org.eu/toolkit/docs/5.2/5.2.3/gram5/		
GENERIC_DOC_2 (Release Notes)	Y	VLD	All docs available from: http://globus.org.eu/toolkit/docs/5.2/5.2.3/gram5/		
GENERIC_DOC_3 (User Documentation)	Y	VLD	All docs available from: http://globus.org.eu/toolkit/docs/5.2/5.2.3/gram5/		
GENERIC_DOC_4 (Online help (man pages)	Y	VLD	All docs available from: http://globus.org.eu/toolkit/docs/5.2/5.2.3/gram5/		
GENERIC_DOC_5 (API Documentation)	Y	VLD	All docs available from: http://globus.org.eu/toolkit/docs/5.2/5.2.3/gram5/		
GENERIC_DOC_6 (Administrator Document)	Y	VLD	All docs available from: http://globus.org.eu/toolkit/docs/5.2/5.2.3/gram5/		
GENERIC_DOC_7 (Service Reference Card)	Y	VLD	All docs available from: http://globus.org.eu/toolkit/docs/5.2/5.2.3/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/5.2/5.2.3/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	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		
GENERIC_SERVICE_7 (Default Configuration)	NA	VLD	No automatic configuration		
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_1 (Bug Tracking System)	Y	VLD	IGE enrolled in GGUS		
AUTHENTICATION QC					
AUTHN_CRED_1 (X.509 Certificate support)	Y	VLD	Tested with X.509 proxy		
AUTHN_CRED_2 (SHA2 Certificate support)	Y	VLD	Client proxy with SHA2		
AUTHN_CRED_3 (RFC Proxy support)	Y	VLD	Tested with RFC Client proxy		
AUTHN_PROTO_1 (TLSSSLv3 Support)	Not tested	VLD	Not tested, globus uses GSI		
AUTHN_DELEG_1 (Delegation Interface)	NA	VLD	No delegation		
AUTHORISATION QC					
AUTHZ_PCYDEF_3 (Ban UserGroup of use)	Not tested	VLD	Tested in previous release		
AUTHZ_PCYDEF_4 (Allowed users definition)	Not tested	VLD	Tested in previous release		
AUTHZ_PEP_2 (User Mapping)	Y	VLD	See log report		
JOB EXECUTION QC					
JOBEXEC_IFACE_1 (Job Execution Interface)	Y	VLD	GRAM5 interface supported (simple tests)		
JOBEXEC_JOB_1 (Simple Job)	Y	VLD	See report		

JOBEXEC_JOB_2 (Simple Job with inputout	Y	VLD	See report
JOBEXEC_JOB_3 (Cancel Job)	Y	VLD	See report
JOBEXEC_EXECMNGR_1 (Not Invasive De	Y	VLD	No changes needed in the deployment
JOBEXEC_EXECMNGR_2 (Job Managemen	Y	VLD	Indirectly tested by JOBEXEC_JOB_*
JOBEXEC_EXECMNGR_3 (Information Ret	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 Mechan	NA	VLD	Not available
JOBEXEC_AVAIL_4 (Timely Job Status Upd	Y	VLD	See report
PARALLEL JOB QC			
PARALLEL_JOB_1 (Simple parallel job subn	Y	VLD	See report, used count attribute
PARALLEL_JOB_2 (Single machine parallel	NA	VLD	host_count available, not enough resources for testing
PARALLEL_JOB_3 (Fine grained mapping p	NA	VLD	Should be tested with real LRMS
PARALLEL_MPI_1 (Precompiled MPI job Ex	NA	VLD	Functionality not provided by GRAM, may be achieved by external tools
PARALLEL_MPI_2 (MPI job Execution from	NA	VLD	Functionality not provided by GRAM, may be achieved by external tools
PARALLEL_OMP_1 (Precompiled OpenMP	NA	VLD	Functionality not provided by GRAM, may be achieved by external tools
PARALLEL_OMP_2 (OpenMP job Execution	NA	VLD	Functionality not provided by GRAM, may be achieved by external tools
MONITORING PROBES QC			
MON_PROBE_GENERIC_1 (Certificate Life	NA	VLD	No probe available
MON_PROBE_GENERIC_2 (Service Probe)	NA	VLD	No probe available
ACCOUNTING CAPABILITY QC			
ACC_JOBEXEC_1 (Job Execution Appliance	NA	VLD	Not provided by gram5
CLIENT TOOLS QC			
CLIENT_TOOLS_1 (Command line options d	Y	VLD	Man and -h options ok
CLIENT_TOOLS_2 (Error Messages)	Y	VLD	Errors are descriptive

Validator comments:

Installation:

```
[root@test27 yum.repos.d]# yum install ige-meta-globus-gram5
[...]
Installed:
  ige-meta-globus-gram5.noarch 0:3.1-1.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 0:14.9-1.el5
  globus-common-devel.x86_64 0:14.9-1.el5
  globus-common-progs.x86_64 0:14.9-1.el5
  globus-core.x86_64 0:8.9-2.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 0:13.51-1.1.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 0:1.4-1.el5
  globus-gram-job-manager-doc.x86_64 0:13.51-1.1.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-lsf.x86_64 0:1.1-1.el5
  globus-gram-job-manager-lsf-setup-poll.x86_64 0:1.1-1.el5
  globus-gram-job-manager-lsf-setup-seg.x86_64 0:1.1-1.el5
  globus-gram-job-manager-pbs.x86_64 0:1.6-1.el5
  globus-gram-job-manager-pbs-setup-poll.x86_64 0:1.6-1.el5
  globus-gram-job-manager-pbs-setup-seg.x86_64 0:1.6-1.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 0:1.5-2.el5
  globus-gram-job-manager-sge-setup-poll.x86_64 0:1.5-2.el5
  globus-gram-job-manager-sge-setup-seg.x86_64 0:1.5-2.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 0:4.4-1.el5
  globus-gsi-callback-devel.x86_64 0:4.4-1.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 0:4.7-1.el5
globus-scheduler-event-generator-devel.x86_64 0:4.7-1.el5
globus-scheduler-event-generator-doc.x86_64 0:4.7-1.el5
globus-scheduler-event-generator-progs.x86_64 0:4.7-1.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:

```
+ service globus-gatekeeper
Usage: /etc/init.d/globus-gatekeeper
{start|stop|status|restart|condrestart|try-restart|reload|force-reload}
+ service globus-gatekeeper status
globus-gatekeeper is not running
+ service globus-gatekeeper start
Started globus-gatekeeper
+ service globus-gatekeeper status
globus-gatekeeper is running (pid=10922)
+ ps aux
+ grep gatekeeper
```

```

root      10922  0.0  0.0  69648  784 ?        S    16:54   0:00
/usr/sbin/globus-gatekeeper -pidfile /var/run/globus-gatekeeper.pid -p 2119 -l
/var/log/globus-gatekeeper.log
root      10932  0.0  0.0  61220  728 pts/1    R+   16:54   0:00 grep
gatekeeper
+ service globus-gatekeeper stop
Stopped globus-gatekeeper
+ service globus-gatekeeper status
globus-gatekeeper is not running
+ ps aux
+ grep gatekeeper
+ service globus-gatekeeper start
Started globus-gatekeeper
+ tail /var/log/globus-gatekeeper.log
TIME: Tue Feb 19 16:54:36 2013
PID: 10922 -- Failure: Gatekeeper shutdown on signal:15
TIME: Tue Feb 19 16:54:37 2013
PID: 10956 -- Notice: 6: /usr/sbin/globus-gatekeeper pid=10956 starting at
Tue Feb 19 16:54:37 2013

TIME: Tue Feb 19 16:54:37 2013
PID: 10956 -- Notice: 6: GRAM contact:
test27.egi.cesga.es:2119:/DC=es/DC=irisgrid/0=cesga/CN=host/test27.egi.cesga.e
s

TIME: Tue Feb 19 16:54:37 2013
PID: 10956 -- Notice: 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:

```

+ globus-gatekeeper-admin -l
jobmanager-condor [DISABLED]
jobmanager-fork-poll [DISABLED]
jobmanager-fork-seg [DISABLED]
jobmanager-lsf-poll [DISABLED]
jobmanager-lsf-seg [DISABLED]
jobmanager-pbs-poll [DISABLED]
jobmanager-pbs-seg [DISABLED]
jobmanager-sge-poll [DISABLED]
jobmanager-sge-seg [DISABLED]
+ globus-gatekeeper-admin -e jobmanager-fork-poll -n jobmanager
+ globus-gatekeeper-admin -e jobmanager-pbs-poll -n jobmanager-pbs
+ globus-gatekeeper-admin -e jobmanager-pbs-seg -n jobmanager-pbs2
+ globus-gatekeeper-admin -l
jobmanager-condor [DISABLED]
jobmanager-fork-poll [ENABLED]
jobmanager-fork-seg [DISABLED]
jobmanager-lsf-poll [DISABLED]
jobmanager-lsf-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]
+ globus-scheduler-event-generator-admin -e pbs
+ globus-scheduler-event-generator-admin -l
fork [DISABLED]
lsf [DISABLED]
pbs [ENABLED]

```

```
sgc [DISABLED]
+ service globus-scheduler-event-generator status
globus-scheduler-event-generator (pbs) is not running
globus-scheduler-event-generator not running, no LRMs installed
+ service globus-scheduler-event-generator start
Started globus-scheduler-event-generator for (pbs)
+ service globus-scheduler-event-generator status
globus-scheduler-event-generator (pbs) is running (pid=11057)
```

Tests:

1. Created test accounts: enol & test
2. Created grid-mapfile mapping to test
3. Copied valid proxy to enol account

```
+grid-proxy-init
Your identity: /DC=es/DC=irisgrid/O=ifca/CN=Enol-Fernandez-delCastillo
Creating proxy ..... Done
Your proxy is valid until: Wed Feb 20 06:01:57 2013
+grid-proxy-info
subject : /DC=es/DC=irisgrid/O=ifca/CN=Enol-Fernandez-
delCastillo/CN=595015596
issuer : /DC=es/DC=irisgrid/O=ifca/CN=Enol-Fernandez-delCastillo
identity : /DC=es/DC=irisgrid/O=ifca/CN=Enol-Fernandez-delCastillo
type : RFC 3820 compliant impersonation proxy
strength : 512 bits
path : /tmp/x509up_u500
timeleft : 11:59:59
```

4. Job tests with fork:

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

### File transfer:
ls -l myfile
-rw-rw-r-- 1 enol enol 49998 Feb 19 18:01 myfile
job:
&
(executable=/bin/ls)
(arguments=-l)
(file_stage_in = ($(GLOBUSRUN_GASS_URL) # "/home/enol/myfile" afile))
output:
total 60
-rw-r--r-- 1 test test 49998 Feb 19 18:01 afile
-rwxrwxr-x 1 test test 164 Feb 19 17:52 listnodes.sh

### Job Status:
job:
&
(executable=/bin/sleep)
(arguments=1m)
job id:
https://test27.egi.cesga.es:54903/16290001966014143251/4693754395253443984/
Tue Feb 19 18:02:00 CET 2013
Status: ACTIVE
Tue Feb 19 18:02:20 CET 2013
Status: ACTIVE
Tue Feb 19 18:02:40 CET 2013
Status: ACTIVE
Tue Feb 19 18:03:00 CET 2013
Status: ACTIVE
```

```

Tue Feb 19 18:03:20 CET 2013
Status: DONE

### Job Cancel:
job:
&
(executable=/bin/sleep)
(arguments=10m)
Tue Feb 19 18:03:40 CET 2013
job id:
https://test27.egi.cesga.es:54903/16290001966005617231/4693754395253443984/
ACTIVE
Tue Feb 19 18:04:40 CET 2013
Cancelling...
Status post cancel:
DONE

### Parallel job:
job:
&
(executable=/bin/ls)
(arguments=-ltr)
(count=2)
output:
total 60
-rwxrwxr-x 1 test test 164 Feb 19 17:52 listnodes.sh
-rw-r--r-- 1 test test 49998 Feb 19 18:01 afile
total 60
-rwxrwxr-x 1 test test 164 Feb 19 17:52 listnodes.sh
-rw-r--r-- 1 test test 49998 Feb 19 18:01 afile

```

5. Job tests with pbs (poll):

```

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

### File transfer:
ls -l myfile
-rw-rw-r-- 1 enol enol 896 Feb 19 18:04 myfile
job:
&
(executable=/bin/ls)
(arguments=-l)
(file_stage_in = ($(GLOBUSRUN_GASS_URL) # "/home/enol/myfile" afile))
output:
total 8
-rw-r--r-- 1 test test 896 Feb 19 18:04 afile
-rwxrwxr-x 1 test test 164 Feb 19 17:52 listnodes.sh

### Job Status:
job:
&
(executable=/bin/sleep)
(arguments=1m)
job id:
https://test27.egi.cesga.es:54374/16290001963251191671/4693754395253443478/
Tue Feb 19 18:04:49 CET 2013
Status: ACTIVE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
98.test27      STDIN         test          0 R testq
Tue Feb 19 18:05:09 CET 2013

```



```

Status: ACTIVE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
98.test27      STDIN          test          0 R testq
Tue Feb 19 18:05:29 CET 2013
Status: ACTIVE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
98.test27      STDIN          test          0 R testq
Tue Feb 19 18:05:49 CET 2013
Status: ACTIVE
PBS Status:
Tue Feb 19 18:06:09 CET 2013
Status: DONE
PBS Status:

### Job Cancel:
job:
&
(executable=/bin/sleep)
(arguments=10m)
Tue Feb 19 18:06:29 CET 2013
job id:
https://test27.egi.cesga.es:54374/16290001964533536691/4693754395253443478/
ACTIVE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
99.test27      STDIN          test          0 R testq
Tue Feb 19 18:07:29 CET 2013
Cancelling...
PBS Status:
Job id          Name          User          Time Use S Queue
-----
99.test27      STDIN          test          0 R testq
Status post cancel:
DONE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
99.test27      STDIN          test          0 R testq

```

6. Job tests with pbs (seg):

```

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

### File transfer:
ls -l myfile
-rw-rw-r-- 1 enol enol 112920 Feb 19 18:07 myfile
job:
&
(executable=/bin/ls)
(arguments=-l)
(file_stage_in = ($(GLOBUSRUN_GASS_URL) # "/home/enol/myfile" afile))
output:
total 120
-rw-r--r-- 1 test test 112920 Feb 19 18:07 afile
-rwxrwxr-x 1 test test 164 Feb 19 17:52 listnodes.sh

### Job Status:
job:

```

```

&
(executable=/bin/sleep)
(arguments=1m)
job id:
https://test27.egi.cesga.es:54374/16290001962424613081/4693754395253443478/
Tue Feb 19 18:07:32 CET 2013
Status: ACTIVE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
102.test27      STDIN         test          0 R testq
Tue Feb 19 18:07:52 CET 2013
Status: ACTIVE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
102.test27      STDIN         test          0 R testq
Tue Feb 19 18:08:12 CET 2013
Status: ACTIVE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
102.test27      STDIN         test          0 R testq
Tue Feb 19 18:08:32 CET 2013
Status: DONE
PBS Status:

### Job Cancel:
job:
&
(executable=/bin/sleep)
(arguments=10m)
Tue Feb 19 18:08:52 CET 2013
job id:
https://test27.egi.cesga.es:54374/16290003062466237961/4693754395253443478/
ACTIVE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
103.test27      STDIN         test          0 R testq
Tue Feb 19 18:09:53 CET 2013
Cancelling...
PBS Status:
Job id          Name          User          Time Use S Queue
-----
103.test27      STDIN         test          0 R testq
Status post cancel:
DONE
PBS Status:
Job id          Name          User          Time Use S Queue
-----
103.test27      STDIN         test          0 R testq

```

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: