

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

Name of the component	Globus-gram5		
Release	5.2.0	RT Ticket	3672
Software Provider	IGE		
	Mattias Ellert	mattias.ellert@fysast.uu.se	
Validator	Name:	E-Mail	
	Enol Fernández	enolfc@ifca.unican.es	
V. Hours Worked	0:30		
Component status	Accepted	Date	04/05/2012
Verification start date	04/05/2012	Verification end date	04/05/2012

Summary:

This is a release of GRAM5 that adds support for SLURM. No changes from previous release are included, hence verification consists on installation and basic testing. NO tests of the SLURM support was performed.

GGUS Tickets:

None

Summary of Quality Criteria verification: (from previous verification)

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
TP				
VLD	14		3	17
	Specific Quality Criteria			
TP				
VLD	13		17	30

Validator comments:

Installation:

```
Installed:
  ige-meta-globus-gram5.noarch 0:2.1-1.el5

Dependency Installed:
  e2fsprogs-devel.x86_64 0:1.39-23.el5          fedora-
  usermgmt.noarch 0:0.8.91-1.el5                 fedora-
  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 0:2.1-2.el5                     globus-
  globus-callout-devel.x86_64 0:2.1-2.el5        globus-
  common.x86_64 0:14.5-4.el5                     globus-
  globus-common-devel.x86_64 0:14.5-4.el5        globus-
  common-progs.x86_64 0:14.5-4.el5               globus-ftp-
  globus-core.x86_64 0:8.5-2.el5                 globus-ftp-
  client.x86_64 0:7.2-2.el5                      globus-gass-
  globus-ftp-control.x86_64 0:4.2-2.el5          globus-gass-
  cache.x86_64 0:8.1-2.el5                      globus-gass-
  globus-gass-cache-program.x86_64 0:5.0-3.el5   globus-gass-
  copy.x86_64 0:8.2-2.el5                       globus-gass-
  globus-gass-copy-progs.x86_64 0:8.2-2.el5     globus-gass-
  server-ez.x86_64 0:4.1-2.el5                   globus-
  globus-gass-transfer.x86_64 0:7.1-2.el5       globus-
  gatekeeper.x86_64 0:9.6-3.el5                  globus-gram-
  globus-gram-audit.noarch 0:3.1-2.el5           globus-gram-
  client.x86_64 0:12.3-2.el5                     globus-gram-
  globus-gram-client-devel.x86_64 0:12.3-2.el5   globus-gram-
  client-doc.x86_64 0:12.3-2.el5                 globus-gram-
  globus-gram-client-tools.x86_64 0:10.0-3.el5   globus-gram-
  job-manager.x86_64 0:13.14-2.1.el5             globus-gram-
  globus-gram-job-manager-callout-error.x86_64 0:2.1-2.el5
  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
  job-manager-condor.noarch 0:1.0-2.el5          globus-gram-
  globus-gram-job-manager-doc.x86_64 0:13.14-2.1.el5
  job-manager-fork.x86_64 0:1.0-2.el5            globus-gram-
  globus-gram-job-manager-fork-setup-poll.x86_64 0:1.0-2.el5
  job-manager-fork-setup-seg.x86_64 0:1.0-2.el5  globus-gram-
  globus-gram-job-manager-pbs.x86_64 0:1.1-2.el5
  job-manager-pbs-setup-poll.x86_64 0:1.1-2.el5
  globus-gram-job-manager-pbs-setup-seg.x86_64 0:1.1-2.el5
  job-manager-scripts.noarch 0:4.2-2.el5         globus-gram-
  globus-gram-job-manager-scripts-doc.noarch 0:4.2-2.el5
  job-manager-sge.x86_64 0:1.0-2.el5             globus-gram-
  globus-gram-job-manager-sge-setup-poll.x86_64 0:1.0-2.el5
  job-manager-sge-setup-seg.x86_64 0:1.0-2.el5  globus-gram-
  globus-gram-protocol.x86_64 0:11.2-2.el5       globus-gram-
  protocol-devel.x86_64 0:11.2-2.el5             globus-gsi-
  globus-gram-protocol-doc.x86_64 0:11.2-2.el5  globus-gsi-
  callback.x86_64 0:4.1-2.el5                    globus-gsi-
  globus-gsi-callback-devel.x86_64 0:4.1-2.el5  globus-gsi-
  cert-utils.x86_64 0:8.1-2.el5                  globus-gsi-
  globus-gsi-cert-utils-devel.x86_64 0:8.1-2.el5
  cert-utils-progs.x86_64 0:8.1-2.el5           globus-gsi-
  globus-gsi-credential.x86_64 0:5.1-2.el5       globus-gsi-
  credential-devel.x86_64 0:5.1-2.el5           globus-gsi-
  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-
  globus-gsi-proxy-core.x86_64 0:6.1-2.el5      globus-gsi-
  proxy-core-devel.x86_64 0:6.1-2.el5          globus-gsi-
  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 0:5.1-2.e15                globus-gsi-
sysconfig-devel.x86_64 0:5.1-2.e15
    globus-gss-assist.x86_64 0:8.1-2.e15                 globus-gss-
assist-devel.x86_64 0:8.1-2.e15
    globus-gssapi-error.x86_64 0:4.1-2.e15              globus-
gssapi-error-devel.x86_64 0:4.1-2.e15
    globus-gssapi-gsi.x86_64 0:10.2-2.e15                globus-
gssapi-gsi-devel.x86_64 0:10.2-2.e15
    globus-io.x86_64 0:9.2-2.e15                         globus-io-
devel.x86_64 0:9.2-2.e15
    globus-openssl-module.x86_64 0:3.1-2.e15            globus-
openssl-module-devel.x86_64 0:3.1-2.e15
    globus-proxy-utils.x86_64 0:5.0-2.e15               globus-
rsl.x86_64 0:9.1-2.e15
    globus-rsl-devel.x86_64 0:9.1-2.e15                 globus-rsl-
doc.x86_64 0:9.1-2.e15
    globus-scheduler-event-generator.x86_64 0:4.4-2.e15 globus-
scheduler-event-generator-devel.x86_64 0:4.4-2.e15
    globus-scheduler-event-generator-doc.x86_64 0:4.4-2.e15 globus-
scheduler-event-generator-progs.x86_64 0:4.4-2.e15
    globus-usage.x86_64 0:3.1-2.e15                     globus-
xio.x86_64 0:3.2-2.e15
    globus-xio-devel.x86_64 0:3.2-2.e15                 globus-xio-
gsi-driver.x86_64 0:2.1-2.e15
    globus-xio-gsi-driver-devel.x86_64 0:2.1-2.e15     globus-xio-
popen-driver.x86_64 0:2.2-2.e15
    gridengine.x86_64 0:6.1u4-1.e15.1                  keyutils-
libs-devel.x86_64 0:1.2-1.e15
    krb5-devel.x86_64 0:1.6.1-70.e15                    libselinux-
devel.x86_64 0:1.33.4-5.7.e15
    libsepol-devel.x86_64 0:1.15.2-3.e15                libtool-
ltdl.x86_64 0:1.5.22-7.e15_4
    libtorque.x86_64 0:2.5.7-7.e15                      munge.x86_64
0:0.5.8-8.e15
    munge-libs.x86_64 0:0.5.8-8.e15                     openssl-
devel.x86_64 0:0.9.8e-22.e15_8.3
    perl-Compress-Zlib.x86_64 0:1.42-1.fc6                perl-
DBI.x86_64 0:1.52-2.e15
    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.e15
    torque.x86_64 0:2.5.7-7.e15                          torque-
client.x86_64 0:2.5.7-7.e15
    zlib-devel.x86_64 0:1.2.3-3
Complete!

```

Configuration:

```

# 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]
jobmanager-slurm [DISABLED]

# globus-scheduler-event-generator-admin -l
fork [DISABLED]
pbs [DISABLED]

```

```

sgc [DISABLED]

# globus-gatekeeper-admin -e jobmanager-fork-poll -n jobmanager
# globus-gatekeeper-admin -l
globus-gatekeeper-admin -l
jobmanager-condor [DISABLED]
jobmanager-fork-poll [ENABLED]
jobmanager-fork-seg [DISABLED]
jobmanager-pbs-poll [DISABLED]
jobmanager-pbs-seg [DISABLED]
jobmanager-sge-poll [DISABLED]
jobmanager-sge-seg [DISABLED]
jobmanager-slurm [DISABLED]
jobmanager [ALIAS to jobmanager-fork-poll]

# /etc/init.d/globus-scheduler-event-generator start
globus-scheduler-event-generator: no LRMS installed

---- Edit /etc/sysconfig/globus-scheduler-event-generator ...

# /etc/init.d/globus-scheduler-event-generator start
Started globus-scheduler-event-generator for (sge)

```

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:

```

enol@test16 ~]$ globus-job-run test16.egi.cesga.es/jobmanager-fork-poll
/usr/bin/whoami
test
[enol@test16 ~]$ globus-job-run test16.egi.cesga.es/jobmanager-fork-poll
/bin/pwd
/home/test
[enol@test16 ~]$ cat job1.rsl
&
(executable=/bin/ls)
(arguments=-l)
(file_stage_in = ($(GLOBUSRUN_GASS_URL) # "/home/enol/myfile" afile))

[enol@test16 ~]$ ls -l myfile
-rw-rw-r-- 1 enol enol 64 May  4 17:41 myfile
[enol@test16 ~]$ globusrun -s -f job1.rsl -r test16.egi.cesga.es
total 4
-rw-r--r-- 1 test test 64 May  4 17:42 afile

```

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: