

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

Name of the component	GridWay		
Release	5.12.0	RT Ticket	#4435
Software Provider	IGE		
Release Contact	Name:	E-Mail	
	Mattias Ellert		
Validator	Name:	E-Mail	
	Álvaro Simón	asimon@cesga.es	
V. Hours Worked	3		
Component status	<b>Verified</b>	Date	23/11/12
Verification start date	23/11/12	Verification end date	23/11/12

**Summary:**

**No issues found during verification process. Sudo race condition bug was fixed for SL5.**

**GGUS Tickets:**

**None**

**Summary of Quality Criteria verification:**

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
<b>TP</b>				
<b>VLD</b>	10	0	0	10
	Specific Quality Criteria			
<b>TP</b>				
<b>VLD</b>	12	0	0	12

Criteria	Quality Criteria verification (Y/N/A)	Accepted (Y/N/A)	Tested (TP/VLD)	Comments
<b>DOCUMENTATION QC</b>				
GENERIC_DOC_1 (Functional Description)	Optional			
GENERIC_DOC_2 (Release Notes)	Y			
GENERIC_DOC_3 (User Documentation)	Optional			
GENERIC_DOC_4 (Online help (man pages))	Optional			
GENERIC_DOC_5 (API Documentation)	Optional			
GENERIC_DOC_6 (Administrator Documentation)	Optional			
GENERIC_DOC_7 (Service Reference Card)	Optional			
GENERIC_DOC_8 (Software License)	Y			
GENERIC_DOC_9 (Release changes testing)	Optional			
<b>SOFTWARE DISTRIBUTION QC</b>				
GENERIC_DIST_1 (Source Code Availability)	Y			
GENERIC_DIST_3 (Binary Distribution)	Y			
<b>SOFTWARE FEATURES QC</b>				
GENERIC_SOFT_1 (Backwards Compatibility)	Y			
GENERIC_SOFT_2 (New features testing)	Y			
<b>SERVICE CRITERIA QC</b>				
GENERIC_SERVICE_1 (Service control and status)	Y			
GENERIC_SERVICE_2 (Log Files)	Y			
GENERIC_SERVICE_3 (Service Reliability)	Optional			
GENERIC_SERVICE_4 (Service Robustness)	Optional			
GENERIC_SERVICE_6 (Default Password Configuration)	Y			
GENERIC_SERVICE_7 (Default Configuration)	Y			
<b>SECURITY QC</b>				
GENERIC_SEC_1 (World Writable Files)	Y			
GENERIC_SEC_3 (Passwords in world readable files)	Y			
<b>MISCELLANEOUS QC</b>				
GENERIC_MISC_1 (Bug Tracking System)	Y			
<b>AUTHENTICATION QC</b>				
AUTHN_CRED_1 (X.509 Certificate support)	Y			
AUTHN_CRED_2 (SHA2 Certificate support)	Optional			
AUTHN_CRED_3 (RFC Proxy support)	Optional			
AUTHN_PROTO_1 (TLS/SSLv3 Support)				
<b>JOB SCHEDULING QC</b>				
JOBSCH_IFACE_1 (Job Scheduling Interface)	Y			
JOBSCH_EXEC_1 (Remote Job Management)	Y			
JOBSCH_EXEC_2 (Remote Resource Information)	Y			
JOBSCH_EXEC_3 (Remote Resource Information)	Y			
JOBSCH_JOB_1 (Simple Job)	Y			
JOBSCH_JOB_2 (Simple Job with input/output)	Y			
JOBSCH_JOB_3 (Cancel Job)	Y			
JOBSCH_JOB_4 (Parallel Job)	Optional			
JOBSCH_JOB_5 (Job List Match)	Y			
JOBSCH_JOB_6 (Parametric Job Submission)	Optional			
JOBSCH_JOB_7 (Job Collection Submission)	Optional			
JOBSCH_JOB_8 (DAG Submission)	Optional			
JOBSCH_SERVICE_1 (Error Messages)	Optional			
JOBSCH_SERVICE_2 (Service Information)	Optional			
JOBSCH_SERVICE_3 (Self Disabling Mechanism)	Optional			
JOBSCH_SERVICE_4 (Job Submission Peak)	Optional			
JOBSCH_SERVICE_5 (Timely Job Status Update)	Optional			
<b>MONITORING PROBES QC</b>				
MON_PROBE_GENERIC_2 (Service Probe)	Optional			
<b>CLIENT TOOLS QC</b>				
CLIENT_TOOLS_1 (Command line options completion)	Optional			
CLIENT_TOOLS_2 (Error Messages)	Optional			

## Validator comments:

### \* Installation

```
#yum install ige-meta-gridway
```

```
=====
Package Arch Version Repository
Size
=====
Installing:
ige-meta-gridway noarch 3.0-1.e15
IGE.gridway.s15.x86_64 2.5 k
Installing for dependencies:
db4-devel x86_64 4.3.29-10.e15 sl-base
2.0 M
db4-utils x86_64 4.3.29-10.e15 sl-base
122 k
globus-common-progs x86_64 14.7-1.e15 UMD-2-updates
34 k
globus-gass-server-ez x86_64 4.3-1.e15 UMD-2-updates
15 k
globus-gass-server-ez-progs x86_64 4.3-1.e15
IGE.gridway.s15.x86_64 11 k
globus-gram-client x86_64 12.4-1.e15 UMD-2-updates
22 k
globus-gram-protocol x86_64 11.3-4.e15 UMD-2-updates
40 k
globus-gsi-cert-utils-progs x86_64 8.3-1.e15 UMD-2-updates
26 k
gridway-BES x86_64 5.12-0.e15
IGE.gridway.s15.x86_64 5.6 M
gridway-GT5 x86_64 5.12-0.e15
IGE.gridway.s15.x86_64 22 k
gridway-core x86_64 5.12-0.e15
IGE.gridway.s15.x86_64 835 k
gridway-gLite x86_64 5.12-0.e15
IGE.gridway.s15.x86_64 60 k
xalan-j2 x86_64 2.7.0-6jpp.1 sl-base
4.6 M

Transaction Summary
=====
Install 14 Package(s)
Upgrade 0 Package(s)

Total download size: 13 M
```

```
# yum install emi-ui [OK]
```

```
*Config GW (gwd.conf) to use cream UI and VO dteam resources
# vi /usr/etc/gwd.conf
{{{
...
# MADs for gLiteIM_MAD = bdii:gw_im_mad_bdii:-s topbdii.core.ibergrid.eu -q (GlueCEAccessControlBaseRule=V0:dteam)
(GlueCEImplementationName=CREAM):dummy:cream
EM_MAD = cream:gw_em_mad_cream::jdl
TM_MAD = dummy:gw_tm_mad_dummy:-g
...
}}}
```

```
#usermod -G gwusers asimon
#cat /etc/sudoers
...
...
...
Defaults:gwadmin !requiretty
Runas_Alias
GWUSERS = %gwusers
gwadmin ALL=(GWUSERS) NOPASSWD: /usr/bin/gw_em_mad_gram2 *
gwadmin ALL=(GWUSERS) NOPASSWD: /usr/bin/gw_tm_mad_ftp *
gwadmin ALL=(GWUSERS) NOPASSWD: /usr/bin/gw_im_mad_static *
gwadmin ALL=(GWUSERS) NOPASSWD: /usr/bin/gw_im_mad_bdii *
gwadmin ALL=(GWUSERS) NOPASSWD: /usr/bin/gw_em_mad_ws *
gwadmin ALL=(GWUSERS) NOPASSWD: /usr/bin/gw_em_mad_cream *
gwadmin ALL=(GWUSERS) NOPASSWD: /usr/bin/gw_em_mad_cream.bin *
gwadmin ALL=(GWUSERS) NOPASSWD: /usr/bin/gw_em_mad_ssh *
gwadmin ALL=(GWUSERS) NOPASSWD: /usr/bin/gw_tm_mad_ftp *
gwadmin ALL=(GWUSERS) NOPASSWD: /usr/bin/gw_tm_mad_dummy *
gwadmin ALL=(GWUSERS) NOPASSWD: /usr/bin/gw_tm_mad_dummy.bin *
gwadmin ALL=(GWUSERS) NOPASSWD: /usr/bin/gw_tm_mad_ssh *
gwadmin ALL=(GWUSERS) NOPASSWD: /usr/bin/grid-proxy-info *
Defaults>GWUSERS env_keep="GW_LOCATION GLOBUS_LOCATION GLOBUS_TCP_PORT_RANGE"
```

```
Create /etc/profile.d/gw.sh file:
for i in `groups`; do
if [ "$i" = 'gwusers' ]; then
export GW_LOCATION=/usr
export GLOBUS_LOCATION=/usr
```

```

export PATH=$PATH:$GW_LOCATION/bin
export JAVA_HOME=/usr/java/latest
fi
done

Start gwd daemon and check gwd logs (/usr/share/gridway/5.8.0/var/gwd.log):
# /etc/init.d/gwd start
Testing
Create dteam proxy:
#voms-proxy-init --voms dteam
* List available resources:
$ gwhost
HID PRI OS
ARCH
MHZ
%CPU
MEM(F/T) DISK(F/T)
NODES(U/F/T) LRMS
HOSTNAME
0 1 ScientificSLBor x86_64 2500 0 16000/16000 0M/0M 0/0/4032 cream-pbs ce07.pic.es
1 1 ScientificSLBor x86_64 2500 0 16000/16000 0M/0M 0/36/4032 cream-pbs ce10.pic.es
2 1 ScientificSLBor x86_64 2500 0 16000/16000 0M/0M 0/20/4032 cream-pbs ce08.pic.es
3 1 ScientificSLBor x86_64 2500 0 16000/16000 0M/0M 0/0/4032 cream-pbs ce09.pic.es
4 1 ScientificSLBor x86_64 2800 0 4096/4096 0M/0M 0/0/12 cream-pbs 5 1 ScientificSLBor x86_64 2530 0 18000/18000 0M/0M
0/84/84 cream-pbs 6 1 ScientificCERNS x86_64 1800 0 2048/2048 0M/0M 0/2/1944 cream-pbs creamce.ijs.si
7 1 ScientificCERNS x86_64 1800 0 2048/2048 0M/0M 0/1/1944 cream-pbs glitece.ijs.si
8 1 ScientificSLBor x86_64 2667 0 16000/16000 0M/0M 0/47/48 cream-pbs 9 1 ScientificSLBor x86_64 2270 0 2048/2048
0M/0M 0/25/4800 cream-pbs grid-cr4.desy.de
10 1 ScientificSLBor x86_64 2270 0 2048/2048 0M/0M 0/36/4800 cream-pbs grid-cr5.desy.de
11 1 ScientificSLBor x86_64 2500 0 4096/4096 0M/0M 0/66/66 cream-pbs gt2.pnpi.nw.ru
12 1 ScientificSLBor x86_64 2500 0 4096/4096 0M/0M 0/0/232 cream-pbs gt3.pnpi.nw.ru
}}
* Create a new job
$ cat sleep.jt
EXECUTABLE = script.sh
ARGUMENTS
= 10 1
INPUT_FILES =
OUTPUT_FILES = env.txt env.txt.${JOB_ID} , outfile
RESTART_FILES = outfile
ENVIRONMENT
STDOUT_FILE =
= VAL1="example", VAL2="other"
oo${JOB_ID}
,VAL4=234
egice.polito.it
ce.basnet.by
ce.hail.or.thSTDERR_FILE =
ee${JOB_ID}
REQUIREMENTS =
RANK
= CPU_MHZ
$ cat script.sh
#!/bin/sh
/usr/bin/env > env.txt
if [ -f outfile ]; then
I=`tail -n 1 outfile | cut -f1 -d' '`
else
I=0
fi
while [ $I -lt $1 ]; do
sleep $2
DATE=`date`
HOST=`uname -n`
echo "$I $DATE $HOST"
echo "$I $DATE $HOST" >> outfile
I=`expr $I + 1`
done
* Submit a job
[asimon@test28 sleep]$ gws submit -v -t sleep.jt
JOB ID: 4
[asimon@test28 sleep]$ gwps
USER JID DM
EM
START
END
EXEC
XFER
EXIT NAME
HOST
asimon:0 0 done ---- 16:23:36 16:26:11 0:02:35 0:00:00 0 sleep.jt golp-ce.ist.utl.pt/cream-pbs
asimon:0 1 done ---- 16:23:36 16:28:16 0:04:40 0:00:00 0 sleep.jt golp-ce.ist.utl.pt/cream-pbs
asimon:0 2 done ---- 16:23:36 16:27:21 0:03:45 0:00:00 0 sleep.jt golp-ce.ist.utl.pt/cream-pbs
asimon:0 3 done ---- 16:23:36 16:27:31 0:03:55 0:00:00 0 sleep.jt golp-ce.ist.utl.pt/cream-pbs
asimon:0 4 wrap pend 10:36:58 --:--:-- 0:00:03 0:00:00 -- sleep.jt golp-ce.ist.utl.pt/cream-pbs
[asimon@test28 sleep]$ gwps
USER JID DM
asimon:0 0
EM
START
END
EXEC
XFER
EXIT NAME
done ---- 16:23:36 16:26:11 0:02:35 0:00:00 0
sleep.jt
HOST
golp-ce.ist.utl.pt/cream-pbasimon:0 1 done ---- 16:23:36 16:28:16 0:04:40 0:00:00 0 sleep.jt
golp-ce.ist.utl.pt/cream-pbs
asimon:0 2 done ---- 16:23:36 16:27:21 0:03:45 0:00:00 0 sleep.jt golp-ce.ist.utl.pt/cream-pbs
asimon:0 3 done ---- 16:23:36 16:27:31 0:03:55 0:00:00 0 sleep.jt golp-ce.ist.utl.pt/cream-pbs
asimon:0 4 done ---- 10:36:58 10:44:28 0:07:27 0:00:00 0 sleep.jt golp-ce.ist.utl.pt/cream-pbs
$ ls -ltr *4

```

```
-rw----- 1 asimon asimon 4401 May 7 10:37 env.txt.4  
-rw----- 1 asimon asimon 580 May 7 10:37 oo4  
-rw----- 1 asimon asimon 0 May 7 10:37 ee4  
}}}
```

**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):**

- Review criteria xxxx
- Add criteria xxxx

**Comments for SR (TSA1.3):**

**Comments for DMSU (TSA2.5):**

**Comments for TP:**