

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

Name of the component	IGE.GridWay SL5		
Release	5.14.0	RT Ticket	#5522
Software Provider	IGE		
Release Contact	Name:	E-Mail	
	Mattias Ellert	mattias.ellert@fysast.uu.se	
Validator	Name:	E-Mail	
	Alvaro Simon	asimon@cesga.es	
V. Hours Worked	4		
Component status	Accepted	Date	19/07/13
Verification start date	19/07/13	Verification end date	19/07/13

Summary:
No issues found during the verification process.

GGUS Tickets:
None

Summary of Quality Criteria verification:

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
TP				
VLD	5	0/0	0	5
	Specific Quality Criteria			
TP				
VLD	15	0	0	15

Quality Criteria verification cheatsheet:

Criteria	Accepted (Y/N/N	Tested (TP/VLD)	Comments
DOCUMENTATION QC			
GENERIC_DOC_1 (Functional Description)	Optional		
GENERIC_DOC_2 (Release Notes)	Y	VLD	
GENERIC_DOC_3 (User Documentation)	Optional		
GENERIC_DOC_4 (Online help (man pages))	Optional		
GENERIC_DOC_5 (API Documentation)	Optional		
GENERIC_DOC_6 (Administrator Documentat	Optional		
GENERIC_DOC_7 (Service Reference Card)	Optional		
GENERIC_DOC_8 (Software License)	Y	VLD	
GENERIC_DOC_9 (Release changes testing)	Optional		
SOFTWARE DISTRIBUTION QC			
GENERIC_DIST_1 (Source Code Availability)	Y	VLD	
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	
SOFTWARE FEATURES QC			
GENERIC_SOFT_1 (Backwards Compatibility)	Y	VLD	
GENERIC_SOFT_2 (New features testing)			
SERVICE CRITERIA QC			
GENERIC_SERVICE_1 (Service control and s	Y	VLD	
GENERIC_SERVICE_2 (Log Files)	Y	VLD	
GENERIC_SERVICE_3 (Service Reliability)	Optional		
GENERIC_SERVICE_4 (Service Robustness)	Optional		
GENERIC_SERVICE_6 (Default Password Co	Y	VLD	
GENERIC_SERVICE_7 (Default Configuration	Y	VLD	
SECURITY QC			
GENERIC_SEC_1 (World Writable Files)	Y	VLD	
GENERIC_SEC_3 (Passwords in world readab	Y	VLD	
MISCELLANEOUS QC			
GENERIC_MISC_1 (Bug Tracking System)			
AUTHENTICATION QC			
AUTHN_CRED_1 (X509 Certificate support)	Y	VLD	
AUTHN_CRED_2 (SHA2 Certificate support)	Optional		
AUTHN_CRED_3 (RFC Proxy support)	Optional		
AUTHN_PROTO_1 (TLSSSLv3 Support)			
JOB SCHEDULING QC			
JOBSCH_IFACE_1 (Job Scheduling Interface)	Y	VLD	
JOBSCH_EXEC_1 (Remote Job Management)	Y	VLD	
JOBSCH_EXEC_2 (Remote Resource Informa	Y	VLD	
JOBSCH_EXEC_3 (Remote Resource Informa	Y	VLD	
JOBSCH_JOB_1 (Simple Job)	Y	VLD	
JOBSCH_JOB_2 (Simple Job with inputoutput	Y	VLD	
JOBSCH_JOB_3 (Cancel Job)	Y	VLD	
JOBSCH_JOB_4 (Parallel Job)	Optional		
JOBSCH_JOB_5 (Job List Match)	Y	VLD	
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 Mechan	Optional		
JOBSCH_SERVICE_4 (Job Submission Peaks	Optional		
JOBSCH_SERVICE_5 (Timely Job Status Upd	Optional		
MONITORING PROBES QC			
MON_PROBE_GENERIC_2 (Service Probe)	Optional		
CLIENT TOOLS QC			
CLIENT_TOOLS_1 (Command line options col	Optional		
CLIENT_TOOLS_2 (Error Messages)	Optional		

Validator comments:

```
* Update
* Set GW environmet:
{{{
# cat /etc/profile.d/gw.sh
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
}}}
```

```
[root@test28 ~]# rpm -qa|grep gridway
gridway-EMIES-5.14-0.el6.x86_64
ige-meta-gridway-3.2-1.el6.noarch
gridway-core-5.14-0.el6.x86_64
gridway-BES-5.14-0.el6.x86_64
gridway-GT5-5.14-0.el6.x86_64
```

```
# yum install gridway-gLite
```

```
=====
Package Arch Version
Repository Size
=====
Installing:
gridway-gLite x86_64 5.14-0.el6
IGE.gridway.s16.x86_64 52 k
Installing for dependencies:
globus-gass-server-ez x86_64 4.3-1.el6
IGE.gridway.s16.x86_64 14 k
globus-gass-server-ez-progs x86_64 4.3-1.el6
IGE.gridway.s16.x86_64 11 k
=====
```

Transaction Summary

```
=====
Install      3 Package(s)
=====
```

```
Total download size: 77 k
Installed size: 244 k
```

Transaction Check Error:

```
file /usr/bin/gw_tm_mad_dummy.bin from install of gridway-gLite-5.14-0.el6.x86_64 conflicts with file from package
gridway-EMIES-5.14-0.el6.x86_64
file /usr/bin/gw_tm_mad_dummy.bin from install of gridway-gLite-5.14-0.el6.x86_64 conflicts with file from package
gridway-BES-5.14-0.el6.x86_64
```

Error Summary

```
[root@test28 yum.repos.d]# cat IGE.gridway.s15.x86_64.repo
{{{
# EGI Software Repository - REPO META (releaseId,repositoryId,repofileId) - (3672,448,374)
```

```
[IGE.gridway.s15.x86_64]
name=IGE.gridway.s15.x86_64
baseurl=http://admin-repo.egi.eu/sw/unverified/ige.gridway.s15.x86_64/5/10/1/
enabled=1
protect=1
priority=1
gpgcheck=1
gpgkey=http://repo-rpm.ige-project.eu/RPM-GPG-KEY-IGE
}}}
```

```
* Install and configure EMI-UI
```

```
# yum install emi-ui
# /opt/glite/yaim/bin/yaim -c -s site-info.def -n UI
```

```
* Install and configure GW
```

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

```
*Config GW (gwd.conf) to use cream UI and VO dteam resources
```

```
# vi /usr/etc/gwd.conf
{{{
...
# MADs for gLite
```

```

IM_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
...
}}

```

```

* For a multi-user environment we have to include each user to GW group:
{{{
#usermod -G gwusers asimon
}}}

```

```

* Start gwd daemon and check gwd logs (/var/log/messages):
{{{
# /etc/init.d/gwd start
Starting GridWay Metascheduler:           [ OK ]
# /etc/init.d/gwd status
gwd (pid 24341) is running...
}}}

```

* TESTING as regular user

```

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  egice.polito.it
5  1  ScientificSLBor x86_64 2530   0 18000/18000   0M/0M      0/84/84  cream-pbs  ce.basnet.by
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  ce.haii.or.th
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 = VAL1="example", VAL2="other" ,VAL4=234

STDOUT_FILE = oo${JOB_ID}
STDERR_FILE = ee${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
}}

```

Edit sudoers file

```

{{{
..
..
Runas_Alias    GWUSERS = %gwusers

gwadmin ALL=(GWUSERS)    NOPASSWD: /usr/bin/gw_em_mad_gram5 *
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_bdi1 *
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_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_ssh *
gwadmin ALL=(GWUSERS)    NOPASSWD: /usr/bin/grid-proxy-info *

Defaults>GWUSERS env_keep="GW_LOCATION GLOBUS_LOCATION GLOBUS_TCP_PORT_RANGE"
}}}

```

Submit a job

```

{{{
[asimon@test28 sleep]$ gwsuubmit -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  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  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
}}}

```

```

[asimon@test28 sleep]$ gckill 1
[asimon@test28 sleep]$ gwps
USER      JID DM  EM  START      END      EXEC      XFER      EXIT  NAME      HOST
asimon:0  0  wrap pend 11:59:23 --:--:-- 0:03:02 0:00:00 --  sleep.jt  golp-ce.ist.utl.pt/cream-pbs

```

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: