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

Name of the component	EMI.wms.sl6.x86_64 3.4.0		
Release	24/10/12	RT Ticket	4501
Software Provider	EMI		
Release Contact	Name:	E-Mail	
	Cristina Aiftimei	cristina.aiftimiei@pd.infn.it	
Validator	Name:	E-Mail	
	Pablo Briongos	pablo.briongos@ific.uv.es	
V. Hours Worked	VERIFIED		
Component status	30h	Date	31ᵗʰ October, 2012
Verification start date	24ᵗʰ October, 2012	Verification end date	31ᵗʰ October, 2012

Summary:

*EMI.wms.sl6.x86_64-3.4.0, first release of WMS in EMI-2, was successfully installed from scratch and configured in a clean Scientific Linux 6.3 (carbon) node, collocated with LB 3.2.9 SL6 release for EMI-2.

*During the first configuration with YAIM we had a know issue (not resolved yet) related to this old GGUS ticket: *https://ggus.eu/tech/ticket_show.php?ticket=81750*:

```
[...]
  INFO  Executing function: config_host_certs
  INFO  Executing function: config_edgusers

groupadd: GID '156' already exists
 ERROR Group infosys with gid '156' failed to be created.
 ERROR Error when creating a group !
 ERROR Error when creating a group !

[…]
```

It's said in that GGUS ticket: "*A fix for this issue has already been released with EMI-2.*", but it's not true, as you can see. So this issue is not fixed with EMI-2 and should be fixed to automate the configuring process and make it easier. It occurs also in SL5 releases.
As workaround you can modify */opt/glite/yaim/examples/edgusers.conf* and change BDII_USER ID to another ID not used in your system.

*As the component is a new major release (there aren't previous bugs in this SL6 release), we checked all the QC's and the results were fine. We performed also basic tests and checked the new GLUE 2.0 support in purchaser and match-making modules.

GGUS Tickets:

Summary of Quality Criteria verification:

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
TP				
VLD	21	0	1	22
	Specific Quality Criteria			
TP	2			2
VLD	27	0	4	31

Quality Criteria verification cheatsheet:

DOCUMENTATION QC

GENERIC_DOC_1 (Functional Description)	Y	VLD	http://web.infn.it/gLiteWMS/index.php/techdoc/howtosandguides/57-archoverview
GENERIC_DOC_2 (Release Notes)	Y	VLD	https://wiki.italiangrid.it/twiki/bin/view/WMS/WMS34ExtendedReleaseNotes
GENERIC_DOC_3 (User Documentation)	Y	VLD	http://web.infn.it/gLiteWMS/images/WMS/Docs/wmproxy-guide.pdf
GENERIC_DOC_4 (Online help (man pages))	Y	VLD	
GENERIC_DOC_5 (API Documentation)	Y	VLD	http://web.infn.it/gLiteWMS/wmproxy-api/egee-jra1-wm/glite-wmproxy-api-index.shtml
GENERIC_DOC_6 (Administrator Documentation)	Y	VLD	http://wiki.italiangrid.org/twiki/bin/view/WMS/WMSSystemAdministratorGuide
GENERIC_DOC_7 (Service Reference Card)	Y	VLD	http://wiki.italiangrid.org/twiki/bin/view/WMS/EMIWMSServiceRefCard
GENERIC_DOC_8 (Software License)	Y	VLD	https://wiki.italiangrid.it/twiki/bin/view/WMS/GLiteWMSLicence
GENERIC_DOC_9 (Release changes testing)	Y	VLD	View executive summary

SOFTWARE DISTRIBUTION QC

GENERIC_DIST_1 (Source Code Availability)	Y	VLD	Source code and rpm's available in product page
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	Available in product page

SOFTWARE FEATURES QC

GENERIC_SOFT_1 (Backwards Compatibility)	NA	VLD	Not applicable as it is the first major release
GENERIC_SOFT_2 (New features testing)	Y	VLD	View executive summary

SERVICE CRITERIA QC

GENERIC_SERVICE_1 (Service control and status)	Y	VLD	/etc/init.d/gLite status|start|stop|restart goes fine
GENERIC_SERVICE_2 (Log Files)	Y	VLD	Located in /var/log/wms
GENERIC_SERVICE_3 (Service Reliability)	Y	VLD	
GENERIC_SERVICE_4 (Service Robustness)	Y	VLD	
GENERIC_SERVICE_5 (Automatic Configuration)	Y	VLD	Configuration with YAIM succesful
GENERIC_SERVICE_6 (Default Password Configuration)	Y	VLD	

SECURITY QC

GENERIC_SEC_1 (World Writable Files)	Y	VLD	Tested with: rpm -qa | grep glite | xargs rpm -ql | xargs --replace=filex find -L filex -perm -g=w
GENERIC_SEC_3 (Passwords in world readable files)	Y	VLD	

MISCELLANEOUS QC

GENERIC_MISC_2 (Bug Tracking System)	Y	VLD	TP enlisted has 3rd level support in GGUS

AUTHENTICATION QC

AUTHN_IFACE_1 (X.509 Certificate support)	Y	VLD	X.509 certificates accepted
AUTHN_DELEG_1 (Delegation Interface)	Y	VLD	Delagation works fine, in this case, GridSite delegation. Automatic (-a) or delegating to an id (-d)

AUTHORISATION QC

AUTHZ_ PCYDEF_3 (Ban User/FQAN)	Y	VLD	Ban users goes fine. Specify ban politics in /etc/glite-wms/glite_wms_wmproxy.gacl
AUTHZ_ PCYDEF_4 (Allowed users definition)	Y	VLD	FQAN and user DN policies can be defined
AUTHZ_ PEP_1 (Policy Enforcement)	Y	VLD	Policies are enforced correctly
AUTHZ_ PEP_2 (User Mapping)	Y	VLD	Gridmap file mapping OK

JOB SCHEDULING QC

JOBSCH_IFACE_1 (Job Scheduling Interface)	Y	VLD	gLite WMS interface functionality tested OK
JOBSCH_EXEC_1 (Remote Job Management)	Y	VLD	
JOBSCH_EXEC_2 (Remote Resource Information)	Y	VLD	
JOBSCH_JOB_1 (Simple Job)	Y	VLD	View executive summary
JOBSCH_JOB_2 (Simple Job with input/output files)	Y	VLD	View executive summary
JOBSCH_JOB_3 (Cancel Job)	Y	VLD	View executive summary
JOBSCH_JOB_4 (Parallel Job)	Y	TP	Reported in: https://wiki.italiangrid.it/twiki/bin/view/IGIRelease/WMSTask21060SL6#Parallel_job_PASSED
JOBSCH_JOB_5 (Job List Match)	Y	VLD	View executive summary
JOBSCH_JOB_6 (Parametric Job Submission)	Y	VLD	View executive summary
JOBSCH_JOB_7 (Job Collection Submission)	Y	VLD	View executive summary
JOBSCH_JOB_8 (DAG Submission)	Y	VLD	View executive summary
JOBSCH_WMS_1 (Proxy Renewal)	Y	VLD	View executive summary
JOBSCH_WMS_2 (Job Resubmission)	Y	VLD	View executive summary
JOBSCH_WMS_3 (JDL Acceptance Limits)	Y	VLD	Tested with a 30MB JDL file
JOBSCH_WMS_SEC_1 (Security Advisory 1502)	Y	TP	Reported to be fixed in https://savannah.cern.ch/patch/?4736
JOBSCH_WMS_BUG_1 (Long Proxy Chain Support)	Y	VLD	
JOBSCH_SERVICE_1 (Error Messages)	Y	VLD	Troubleshooting: https://twiki.cern.ch/twiki/bin/view/LCG/GLiteWMSTroubleshooting
JOBSCH_SERVICE_2 (Service Information)	NA	VLD	No test provided
JOBSCH_SERVICE_3 (Self Disabling Mechanism)	NA	VLD	Optional
JOBSCH_SERVICE_4 (Job Submission Peaks)	Y	VLD	Good performance after submit 500 jobs sequentially in background
JOBSCH_SERVICE_5 (Timely Job Status Updates)	Y	VLD	Can do this executing glite-wms-job-status command. It doesn't show any relevant delays under high load conditions

MONITORING PROBES QC

MON_PROBE_GENERIC_1 (Certificate Lifetime Probe)	Y	VLD	Probe included in WMS Nagios
MON_PROBE_GENERIC_2 (Service Probe)	NA	VLD	Optional. State of Nagios service probes: https://twiki.cern.ch/twiki/bin/view/EMI/NagiosProbes
MON_PROBE_JOBSCH_1 (WMS Probes)	Y	VLD	View executive summary

ACCOUNTING CAPABILITY QC

ACC_JOBSCH_1 (Job Scheduling Appliances Accounting)	NA	VLD	Optional. It can be done with glite-wms-job-status with 1 singular job, but it's pretty difficult to retrieve all these information from LB

CLIENT TOOLS QC

CLIENT_TOOLS_1 (Command lineOptions coherency)	Y	VLD	
CLIENT_TOOLS_2 (Error Messages)	Y	VLD	

Validator comments:

Extra information and logging about some QC and major changes:

*AUTHZ_PCYDEF_3 (Ban UserFQAN): PASSED → The test consists in ban my own user (in /etc/glite-wms/glite_wms_wmproxy.gacl) and check I can't submit nothing:

-bash-3.2$ glite-wms-job-delegate-proxy -d $USER

Connecting to the service https://cg03.ific.uv.es:7443/glite_wms_wmproxy_server

Warning - Unable to delegate the credential to the endpoint: https://cg03.ific.uv.es:7443/glite_wms_wmproxy_server

AuthorizationException: Authorization error: user not authorized

at checkGaclUserAuthZ()[/builddir/build/BUILD/glite-wms-wmproxy-3.3.4/build/../src/authorizer/wmpauthorizer.cpp:417]

at checkGaclUserAuthZ()[/builddir/build/BUILD/glite-wms-wmproxy-3.3.4/build/../src/authorizer/wmpauthorizer.cpp:282]

at authorize()[/builddir/build/BUILD/glite-wms-wmproxy-3.3.4/build/../src/authorizer/wmpauthorizer.cpp:150]

at getProxyReq()[/builddir/build/BUILD/glite-wms-wmproxy-3.3.4/build/../src/server/wmpoperations.cpp:627]

Switching to next WMProxy Server...
Error - Operation failed
Unable to find any endpoint where to perform service request

*INFOMODEL_SCHEMA_1 (GlueSchema Support): PASSED → We check here GLUE 1.3 and GLUE 2.0 compliance:

[root@cg03 config]# glue-validator -t glue1 -h cg03.ific.uv.es -p 2170 -b o=grid

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

----

Ran 40 tests in 0.006s

OK

[root@cg03 config]# glue-validator -t glue2 -h cg03.ific.uv.es -p 2170 -b o=glue

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

Validating data types. ... ok

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

Verifying single-valued attributes only have one value. ... ok

----

Ran 40 tests in 0.006s

OK

JOBSCH_JOB_1 (Simple Job); JOBSCH_JOB_2 (Simple Job with input/output files); JOBSCH_JOB_3 (Cancel Job); JOBSCH_JOB_5 (Job List Match)

PASSED

-bash-3.2$ glite-wms-job-delegate-proxy -c glite_wms_personal.conf -d $USER

Connecting to the service https://cg03.ific.uv.es:7443/glite_wms_wmproxy_server

================== glite-wms-job-delegate-proxy Success ==================

Your proxy has been successfully delegated to the WMProxy(s):
https://cg03.ific.uv.es:7443/glite_wms_wmproxy_server
with the delegation identifier: briongos

==

```
-bash-3.2$ glite-wms-job-list-match -c glite_wms_personal.conf -d $USER hello_world.jdl
```

Connecting to the service https://cg03.ific.uv.es:7443/glite_wms_wmproxy_server

==

COMPUTING ELEMENT IDs LIST
 The following CE(s) matching your job requirements have been found:

            CEId
 - ce02.ific.uv.es:8443/cream-pbs-infbandIficL
 - ce02.ific.uv.es:8443/cream-pbs-infbandShort
 - ce03.ific.uv.es:8443/cream-pbs-ificL
 - ce03.ific.uv.es:8443/cream-pbs-short
 - ce05.ific.uv.es:8443/cream-pbs-long
 - ce05.ific.uv.es:8443/cream-pbs-short

==


```
-bash-3.2$ glite-wms-job-submit -c glite_wms_personal.conf -d $USER hello_world.jdl
```

Connecting to the service https://cg03.ific.uv.es:7443/glite_wms_wmproxy_server

===================== glite-wms-job-submit Success =====================

The job has been successfully submitted to the WMProxy
Your job identifier is:

https://cg03.ific.uv.es:9000/M_Kf93v968gEjinHiX67zA

==


```
-bash-3.2$ glite-wms-job-status https://cg03.ific.uv.es:9000/M_Kf93v968gEjinHiX67zA
```


===================== glite-wms-job-status Success =====================
BOOKKEEPING INFORMATION:

Status info for the Job : https://cg03.ific.uv.es:9000/M_Kf93v968gEjinHiX67zA
Current Status: Done (Success)
Logged Reason(s):
    - job completed
    - Job Terminated Successfully
Exit code: 0
Status Reason: Job Terminated Successfully
Destination: ce05.ific.uv.es:8443/cream-pbs-long
Submitted: Tue Oct 30 12:16:50 2012 CET
==

```
-bash-3.2$ glite-wms-job-output https://cg03.ific.uv.es:9000/M_Kf93v968gEjinHiX67zA
```

Connecting to the service https://cg03.ific.uv.es:7443/glite_wms_wmproxy_server

==

                        JOB GET OUTPUT OUTCOME

Output sandbox files for the job:
https://cg03.ific.uv.es:9000/M_Kf93v968gEjinHiX67zA
have been successfully retrieved and stored in the directory:
/tmp/jobOutput/briongos_M_Kf93v968gEjinHiX67zA

==

-bash-3.2$ glite-wms-job-submit -c glite_wms_personal.conf -d $USER hello_world.jdl

Connecting to the service https://cg03.ific.uv.es:7443/glite_wms_wmproxy_server

==================== glite-wms-job-submit Success ====================

The job has been successfully submitted to the WMProxy
Your job identifier is:

https://cg03.ific.uv.es:9000/QD6ZnG4kWJG673KGZMU-PQ

===

-bash-3.2$ glite-wms-job-cancel https://cg03.ific.uv.es:9000/QD6ZnG4kWJG673KGZMU-PQ

Are you sure you want to remove specified job(s) [y/n]y : y

Connecting to the service https://cg03.ific.uv.es:7443/glite_wms_wmproxy_server

=========================== glite-wms-job-cancel Success ===========================

The cancellation request has been successfully submitted for the following job(s):

- https://cg03.ific.uv.es:9000/QD6ZnG4kWJG673KGZMU-PQ

===
=====

-bash-3.2$ glite-wms-job-status https://cg03.ific.uv.es:9000/QD6ZnG4kWJG673KGZMU-PQ

==================== glite-wms-job-status Success ====================
BOOKKEEPING INFORMATION:

Status info for the Job : https://cg03.ific.uv.es:9000/QD6ZnG4kWJG673KGZMU-PQ
Current Status: Cancelled
Logged Reason(s):

- job completed

Destination: ce05.ific.uv.es:8443/cream-pbs-long

Submitted: Tue Oct 30 12:22:56 2012 CET

===

JOBSCH_JOB_6 (Parametric Job Submission): PASSED

```
-bash-3.2$ ./WMS-job-parametric.sh
 ===> +++++++++++++++++++++++++++++++++++++++++++++++++++++++++
 ===> + TestSuite of the gLite-WMS command line interface
 ===> + Description: test parametric jobs
 ===> +++++++++++++++++++++++++++++++++++++++++++++++++++++++++
 ===> Test: WMS-job-parametric
 ===> WMS: cg03.ific.uv.es
 ===> Started: 12:48:31
 ===> Ended  : 12:53:00
 ===>
 ===>    === test PASSED ===
```


JOBSCH_JOB_7 (Job Collection Submission): PASSED

```
-bash-3.2$ cat prueba_collection.jdl
[ Type = "collection";
Executable = "/bin/hostname";
VirtualOrganisation = "ific";
requirements = other.GlueCEInfoTotalCPUs >=30;
Rank = other.GlueCEStateFreeCPUs;
Nodes = {
[JobType = "normal";
Executable = "/bin/hostname" ;
Arguments = "-f";
StdOutput = "job1.out";
StdError = "job1.err";
OutputSandbox = {"job1.err", "job1.out" };
],[JobType = "normal";
Executable = "/bin/hostname";
Arguments = "-f";
StdOutput = "job2.out";
StdError = "job2.err";
OutputSandbox = {"job2.err", "job2.out" };] };
Requirements =  other.GlueCEInfoHostName == "ce05.ific.uv.es";
]
```


-bash-3.2$ glite-wms-job-submit -c ~/glite_wms_personal.conf -d $USER prueba_collection.jdl

Connecting to the service https://cg03.ific.uv.es:7443/glite_wms_wmproxy_server

==================== glite-wms-job-submit Success ====================

The job has been successfully submitted to the WMProxy

Your job identifier is:

https://cg03.ific.uv.es:9000/52IU92FficX3FOQU-pUi-A

==

-bash-3.2$ glite-wms-job-status https://cg03.ific.uv.es:9000/52IU92FficX3FOQU-pUi-A

===================== glite-wms-job-status Success =====================
BOOKKEEPING INFORMATION:

Status info for the Job : https://cg03.ific.uv.es:9000/52IU92FficX3FOQU-pUi-A
Current Status: Done (Success)
Exit code: 0
Submitted: Tue Oct 30 13:01:19 2012 CET
==

- Nodes information for:
    Status info for the Job : https://cg03.ific.uv.es:9000/QajWLzObGc3auBBs6IY6Dw
    Current Status: Done (Success)
    Logged Reason(s):
        - job completed
        - Job Terminated Successfully
    Exit code: 0
    Status Reason: Job Terminated Successfully
    Destination: ce05.ific.uv.es:8443/cream-pbs-short
    Submitted: Tue Oct 30 13:01:19 2012 CET
==

    Status info for the Job : https://cg03.ific.uv.es:9000/Qppzyugg8KILg3wvEGlGYQ
    Current Status: Done (Success)
    Logged Reason(s):
        - job completed
        - Job Terminated Successfully
    Exit code: 0
    Status Reason: Job Terminated Successfully
    Destination: ce05.ific.uv.es:8443/cream-pbs-long
    Submitted: Tue Oct 30 13:01:19 2012 CET
==

JOBSCH_JOB_8 (DAG Submission): PASSED

```
-bash-3.2$ cat prueba_dag.jdl
[
    Type="dag";
    InputSandbox={"mother.py"};
    VirtualOrganization="ific";
    Nodes = [
        father = [
            description = [
                JobType = "Normal";
                Executable = "/usr/bin/python";
                Arguments = "father.py Sam Alex";
                InputSandbox = {"father.py"};
                StdOutput = "father.out";
                StdError = "father.err";
                OutputSandbox = {"father.out", "father.err", "Sam.gender", "Alex.gender"};
                ShallowRetryCount = 1;
            ];
        ];
        sam = [
            description = [
                JobType = "Normal";
                Executable = "/usr/bin/python";
                InputSandbox = {root.InputSandbox, root.Nodes.father.description.OutputSandbox[2]};
                Arguments = "mother.py Sam";
                StdOutput = "Sam.out";
                StdError = "Sam.err";
                OutputSandbox = {"Sam.date", "Sam.out", "Sam.err"};
                ShallowRetryCount = 1;
            ];
        ];

    ];
    Dependencies = {{father, sam}};
        Requirements =  other.GlueCEInfoHostName == "ce05.ific.uv.es";
]

-bash-3.2$ glite-wms-job-submit -c ~/glite_wms_personal.conf -d $USER prueba_dag.jdl

Connecting to the service https://cg03.ific.uv.es:7443/glite_wms_wmproxy_server


===================== glite-wms-job-submit Success =====================

The job has been successfully submitted to the WMProxy
Your job identifier is:

https://cg03.ific.uv.es:9000/O-FBO4Bc70ckG4njF13OoA

==============================================================================
-bash-3.2$ glite-wms-job-status https://cg03.ific.uv.es:9000/O-FBO4Bc70ckG4njF13OoA


===================== glite-wms-job-status Success =====================
BOOKKEEPING INFORMATION:

Status info for the Job : https://cg03.ific.uv.es:9000/O-FBO4Bc70ckG4njF13OoA
Current Status:    Done (Success)
Exit code:         0
Status Reason:     DAG successfully completed
Destination:       dagman
Submitted:         Tue Oct 30 13:12:45 2012 CET
==============================================================================

- Nodes information for:
    Status info for the Job : https://cg03.ific.uv.es:9000/56HyuQ_y8VH6Gx09p3GepA
    Current Status:    Done (Success)
    Logged Reason(s):
```

```
    - job completed
    - Job Terminated Successfully
Exit code:         0
Status Reason:     Job Terminated Successfully
Destination:       ce05.ific.uv.es:8443/cream-pbs-short
Submitted:         Tue Oct 30 13:12:45 2012 CET
=================================================================================

    Status info for the Job : https://cg03.ific.uv.es:9000/gvxpzpeOwnKBeXIRyJcI3Q
    Current Status:    Done (Success)
    Logged Reason(s):
      - job completed
      - Job Terminated Successfully
    Exit code:         0
    Status Reason:     Job Terminated Successfully
    Destination:       ce05.ific.uv.es:8443/cream-pbs-short
    Submitted:         Tue Oct 30 13:12:45 2012 CET
=================================================================================
```

JOBSCH_WMS_1 (Proxy Renewal): PASSED → tested with a 5 minutes proxy, and a 10 minutes job. It finishes successfully.

```
-bash-3.2$ myproxy-init -d -n -s lcg2proxy.ific.uv.es
Your identity: /DC=es/DC=irisgrid/O=ific/CN=Pablo.Briongos
Enter GRID pass phrase for this identity:
Creating proxy ................................................ Done
Proxy Verify OK
Your proxy is valid until: Tue Nov  6 13:27:56 2012
A proxy valid for 168 hours (7.0 days) for user /DC=es/DC=irisgrid/O=ific/CN=Pablo.Briongos now exists on
lcg2proxy.ific.uv.es.

-bash-3.2$ voms-proxy-init -voms ific -valid 0:5
Enter GRID pass phrase:
Your identity: /DC=es/DC=irisgrid/O=ific/CN=Pablo.Briongos
Creating temporary proxy ................................ Done
Contacting  swevo.ific.uv.es:14001 [/DC=es/DC=irisgrid/O=ific/CN=swevo.ific.uv.es] "ific" Done
Creating proxy ..................... Done
Your proxy is valid until Tue Oct 30 13:34:49 2012
-bash-3.2$  glite-wms-job-delegate-proxy -c glite_wms_personal.conf -d $USER

Connecting to the service https://cg03.ific.uv.es:7443/glite_wms_wmproxy_server


================== glite-wms-job-delegate-proxy Success ==================

Your proxy has been successfully delegated to the WMProxy(s):
https://cg03.ific.uv.es:7443/glite_wms_wmproxy_server
with the delegation identifier: briongos


=================================================================================


-bash-3.2$ glite-wms-job-submit -c ~/glite_wms_personal.conf -d $USER hello_world.jdl

Connecting to the service https://cg03.ific.uv.es:7443/glite_wms_wmproxy_server


===================== glite-wms-job-submit Success =====================

The job has been successfully submitted to the WMProxy
Your job identifier is:
```

https://cg03.ific.uv.es:9000/Be6PbhuyGFk9J0hG-Il1fw

===

After 30 minutes:

-bash-3.2$ glite-wms-job-status https://cg03.ific.uv.es:9000/Be6PbhuyGFk9J0hG-Il1fw

====================== glite-wms-job-status Success =====================
BOOKKEEPING INFORMATION:

Status info for the Job : https://cg03.ific.uv.es:9000/Be6PbhuyGFk9J0hG-Il1fw
Current Status: Done (Success)
Logged Reason(s):
    - job completed
    - Job Terminated Successfully
Exit code: 0
Status Reason: Job Terminated Successfully
Destination: ce05.ific.uv.es:8443/cream-pbs-long
Submitted: Tue Oct 30 13:29:59 2012 CET
==

JOBSCH_WMS_2 (Job Resubmission): PASSED

-bash-3.2$ ./WMS-job-resubmit.sh
===> ++
===> + TestSuite of the gLite-WMS command line interface
===> + Description: test job resubmission
===> ++
===> >>>
===> Test: WMS-job-resubmit
===> WMS: cg03.ific.uv.es
===> Started: 14:18:54
===> Ended : 14:31:03
===>
===>   === test PASSED ===

MON_PROBE_JOBSCH_1 (WMS Probes): PASSED

-bash-3.2$ ./WMS-probe --vo ific -H cg03.ific.uv.es -m emi.wms.WMS-JobState
OK:
OK:
Testing from: cg02.ific.uv.es
DN: /DC=es/DC=irisgrid/O=ific/CN=Pablo.Briongos/CN=proxy
VOMS FQANs: /ific/Role=NULL/Capability=NULL

Connecting to the service https://cg03.ific.uv.es:7443/glite_wms_wmproxy_server

===================== glite-wms-job-submit Success =====================

The job has been successfully submitted to the WMProxy
Your job identifier is:

https://cg03.ific.uv.es:9000/HhsTG4pCxVxnnFEDsm-yRA

The job identifier has been saved in the following file:

/var/lib/gridprobes/ific/emi.wms/WMS/cg03.ific.uv.es/jobID

===

```
-bash-3.2$ ./WMS-probe --vo ific -H cg03.ific.uv.es -m emi.wms.WMS-JobCancel
OK: job cancelled
OK: job cancelled
Testing from: cg02.ific.uv.es
DN: /DC=es/DC=irisgrid/O=ific/CN=Pablo.Briongos/CN=proxy
VOMS FQANs: /ific/Role=NULL/Capability=NULL
Job cancellation request sent:
glite-wms-job-cancel --noint  -i /var/lib/gridprobes/ific/emi.wms/WMS/cg03.ific.uv.es/jobID
Job bookkeeping files deleted.
```

N**ot 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:

*Review GGUS ticket https://ggus.eu/tech/ticket_show.php?ticket=81750. This problem is still remaining with EMI-2.