

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

Name of the component	EMI.wms.sl6.x86_64_3.5.0		
Release	12/03/13	RT Ticket	4501
Software Provider	EMI-3		
Release Contact	Name:	E-Mail	
	Cristina Aiftimei	cristina.aiftimei@pd.infn.it	
Validator	Name:	E-Mail	
	Pablo Briongos	pablo.briongos@ific.uv.es	
V. Hours Worked	VERIFIED		
Component status	30h	Date	27 th March, 2013
Verification start date	14 th March, 2013	Verification end date	27 th March, 2013

Summary:

*EMI.wms.sl6.x86_64-3.5.0, first release of WMS in EMI-3, was successfully installed from scratch and configured in a clean Scientific Linux 6.3 (carbon) node, collocated with LB 4.0.4 SL6 release for EMI-3.

*As this release is a new major one, we checked all the QC's and the results were fine. We also performed basic tests to test the compatibility with other EMI products and results were successful too:

- EMI1 UI SL5
- EMI2 UI SL6
- EMI2 VOMS
- EMI2 CE & WN
- EMI2 myproxy

*We encountered a problem with Argus and WMS integration new functionality. It doesn't affect to any mandatory QC, so WMS verification is accepted nevertheless. A GGUS ticket was opened. It seems to be a problem related with SL6: it uses the NSS library instead of OpenSSL and so, the proxy are not correctly handled. It is a known problem in NSS, and will not be corrected soon. For WMS, it will require a code change.

GGUS Tickets:

https://ggus.eu/ws/ticket_info.php?ticket=92773

Summary of Quality Criteria verification:

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
TP				
VLD	23	0	0	23
	Specific Quality Criteria			

TP	1			1
VLD	34	0	2	36

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	http://www.eu-emi.eu/releases/emi-3-montebianco/products/-/asset_publisher/5dKm/content/wms-2
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-ira-1-wm/glite-wmproxy-api-index.shtml
GENERIC_DOC_6 (Administrator Documentation)	Y	VLD	https://wiki.italiangrid.it/twiki/bin/view/WMS/WMSSystemAdministratorGuide
GENERIC_DOC_7 (Service Reference Card)	Y	VLD	https://wiki.italiangrid.it/twiki/bin/view/WMS/EMIWMSServiceRefCard
GENERIC_DOC_8 (Software License)	Y	VLD	http://web2.infn.it/gLiteWMS/index.php/license
GENERIC_DOC_9 (Release changes testing)	Y	VLD	https://wiki.italiangrid.it/twiki/bin/view/IGIRelease/WMSTask34080SL6#Bugs_attached_to_this_task

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. There are some glite files created in /opt location; this is discouraged

SOFTWARE FEATURES QC

GENERIC_SOFT_1 (Backwards Compatibility)	Y	VLD	Tested successfully with UI from EMI-2 and glite 3.2, VOMS from EMI-2, CE and WN from EMI-2, BDII from EMI-2, and MyProxy from EMI-2
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 works 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 was successful
GENERIC_SERVICE_6 (Default Password Configuration)	Y	VLD	
GENERIC_SERVICE_7 (Default Configuration)	Y	VLD	Default values on YAIM parameters indicated in: https://twiki.cern.ch/twiki/bin/view/LCG/Site-info_configuration_variables#WMS

SECURITY QC

GENERIC_SEC_1 (World Writable Files)	Y	VLD	Tested with: find / -type f -perm -002 -exec ls -l {} \;
GENERIC_SEC_3 (Passwords in world readable files)	Y	VLD	

MISCELLANEOUS QC

GENERIC_MISC_1 (Bug Tracking System)	Y	VLD	TP enlisted has 3rd level support in GGUS
--------------------------------------	---	-----	---

AUTHENTICATION QC

AUTHN_CRED_1 (X.509 Certificate support)	Y	VLD	
AUTHN_CRED_2 (SHA2 Certificate support)	NA	VLD	Optional
AUTHN_CRED_3 (RFC Proxy support)	Y	VLD	View executive summary
AUTHN_PROTO_1 (TLSSSLv3 Support)	Y	VLD	
AUTHN_DELEG_1 (Delegation Interface)	Y	VLD	Delegation works fine, in this case, GridSite delegation. Automatic (-a) or delegating to an id (-d)

AUTHORISATION QC

AUTHZ_PCYDEF_3 (Ban UserGroup of users)	Y	VLD	Ban users/group works 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_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 GlueSchema 1.3)	Y	VLD	View executive summary
JOBSCH_EXEC_3 (Remote Resource Information GlueSchema 2.0)	Y	VLD	View executive summary
JOBSCH_JOB_1 (Simple Job)	Y	VLD	View executive summary
JOBSCH_JOB_2 (Simple Job with inputoutput files)	Y	VLD	View executive summary
JOBSCH_JOB_3 (Cancel Job)	Y	VLD	View executive summary
JOBSCH_JOB_4 (Parallel Job)	Y	VLD	View executive summary
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_WMS_BUG_2 (Multiple RoleGroup Proxy Support)	Y	VLD	
JOBSCH_SERVICE_1 (Error Messages)	Y	VLD	Troubleshooting guide in: https://twiki.cern.ch/twiki/bin/view/LCG/GLiteWMSTroubleshooting
JOBSCH_SERVICE_2 (Service Information)	Y	VLD	
JOBSCH_SERVICE_3 (Self Disabling Mechanism)	Y	VLD	When high load is detected, job submission request is not allowed and message is sent to client
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

CLIENT TOOLS QC

CLIENT_TOOLS_1 (Command line options coherency)	Y	VLD	
CLIENT_TOOLS_2 (Error Messages)	Y	VLD	

Validator comments:

There are three main new functionalities in this major release:

- Argus and WMS integration
- Integration with the EMI Service Registry
- ARC CE 12.05 EMI WMS interoperability

And relating to backwards incompatibility it was removed the provision of WMProxy Java API (glite-wms-wmproxy-api-java) and WMProxy Python API (glite-wms-wmproxy-api-python).

Here is some extra information and logging about some QC:

***AUTHN_CRED_3 (RFC proxy support): PASSED →**

```
bash-3.2$ voms-proxy-init -rfc --voms ific
```

```
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 Thu Mar 21 03:44:45 2013
```

```
-bash-3.2$ voms-proxy-info --all
```

```
subject  : /DC=es/DC=irisgrid/O=ific/CN=Pablo.Briongos/CN=1326402292
```

```
issuer   : /DC=es/DC=irisgrid/O=ific/CN=Pablo.Briongos
```

```
identity : /DC=es/DC=irisgrid/O=ific/CN=Pablo.Briongos
```

```
type     : RFC compliant proxy
```

```
strength : 1024 bits
```

```
path     : /tmp/x509up_u5843
```

```
timeleft : 11:59:41
```

```
=== VO ific extension information ===
```

```
VO       : ific
```

```
subject  : /DC=es/DC=irisgrid/O=ific/CN=Pablo.Briongos
```

```
issuer   : /DC=es/DC=irisgrid/O=ific/CN=swevo.ific.uv.es
```

```
attribute : /ific/Role=NULL/Capability=NULL
```

timeleft : 11:59:41

uri : swevo.ific.uv.es:14001

```
-bash-3.2$ glite-wms-job-delegate-proxy -e https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server -d $USER
```

Connecting to the service https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server

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

Your proxy has been successfully delegated to the WMPProxy(s):

https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server

with the delegation identifier: briongos

=====

***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 -e https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server -d $USER
```

Connecting to the service https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server

Connection failed: Authorization error: user not authorized

Error code: SOAP-ENV:Server

Error - Operation failed

Unable to find any endpoint where to perform service request

***JOBSCH_EXEC_2 (Remote Resource Information GlueSchema 1.3) and
JOBSCH_EXEC_3 (Remote Resource Information GlueSchema 2.0): PASSED →**
We check here GLUE 1.3 and GLUE 2.0 compliance:

```
[root@cg03 ~]# glue-validator -t glue1 -h cg08.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. ... FAIL

Verifying the existence of mandatory attributes. ... ok

Verifying the object class ... ok

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

FAIL: Validating data types.

Traceback (most recent call last):

File "/usr/lib/python2.6/site-packages/validator/EntryTest.py", line 60, in test_data_types

self.assertTrue(check(value), message)

AssertionError: The field GlueServiceStartTime with value '1970-01-01T01:00:00+01:00' does not follow the type DateTime_t in GlueServiceUniqueID=cg08.ific.uv.es_org.glite.lb.Server_2310828617,Mds-Vo-name=resource,o=grid

Ran 40 tests in 0.006s

FAILED (failures=1)

[root@cg08 bin]# ldapsearch -x -h cg08.ific.uv.es -p 2170 -b GLUE2GroupID=resource,o=glue objectclass=GLUE2Endpoint

extended LDIF

#

LDAPv3

base <GLUE2GroupID=resource,o=glue> with scope subtree

filter: objectclass=GLUE2Endpoint

requesting: ALL

#

cg08.ific.uv.es_wmproxy_728235715_org.glite.wms.WMProxy_728235715, cg08.ifi

c.uv.es_wmproxy_728235715, resource, glue

dn: GLUE2EndpointID=cg08.ific.uv.es_wmproxy_728235715_org.glite.wms.WMProxy_72

8235715, GLUE2ServiceID=cg08.ific.uv.es_wmproxy_728235715, GLUE2GroupID=resourc

e,o=glue

GLUE2EntityValidity: 3600

GLUE2EndpointQualityLevel: production

GLUE2EndpointImplementor: gLite

GLUE2EntityOtherInfo: InfoProviderName=glite-info-glue2-endpoint

GLUE2EntityOtherInfo: InfoProviderVersion=1.4

GLUE2EntityOtherInfo: InfoProviderHost=cg08.ific.uv.es

GLUE2EntityOtherInfo: ProfileName=EGI

GLUE2EntityOtherInfo: ProfileVersion=1.0

GLUE2EntityOtherInfo: OSName=ScientificCERNSLC

GLUE2EntityOtherInfo: OSVersion=6.4

GLUE2EntityOtherInfo: MiddlewareName=EMI

GLUE2EntityOtherInfo: MiddlewareVersion=3.0.0-1

GLUE2EntityOtherInfo: HostDN=/DC=es/DC=irisgrid/O=ific/CN=cg08.ific.uv.es

GLUE2EndpointCapability: executionmanagement.candidatesetgenerator

GLUE2EndpointCapability: executionmanagement.jobdescription

GLUE2EndpointCapability: executionmanagement.jobmanager

GLUE2EndpointServiceForeignKey: cg08.ific.uv.es_wmproxy_728235715

GLUE2EntityName: WMPProxy endpoint for Service cg08.ific.uv.es_wmproxy_72823571

5

GLUE2EndpointTechnology: webservice

GLUE2EndpointWSDL: <http://web.infn.it/gLiteWMS/images/WMS/Docs/wmproxy.wsdl>

GLUE2EndpointInterfaceName: org.glite.wms.WMProxy

GLUE2EndpointURL: https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server

GLUE2EndpointDowntimeInfo: See the GOC DB for downtimes: <https://goc.egi.eu/>

GLUE2EndpointImplementationVersion: package glite-wms-wmproxy is not installed

GLUE2EndpointSemantics: <http://web.infn.it/gLiteWMS/images/WMS/Docs/wmproxy-gu>

ide.pdf

GLUE2EndpointIssuerCA: /DC=es/DC=irisgrid/CN=IRISGridCA

GLUE2EndpointServingState: production

GLUE2EndpointImplementationName: WMS

GLUE2EndpointInterfaceVersion: 1.0

objectClass: GLUE2Endpoint

GLUE2EndpointTrustedCA: IGTF

GLUE2EndpointID: cg08.ific.uv.es_wmproxy_728235715_org.glite.wms.WMProxy_72823

GLUE2EndpointHealthStateInfo: /usr/bin/glite_wms_wmproxy_server is running...

GLUE2EndpointHealthState: ok

GLUE2EndpointStartTime: 2013-03-20T23:00:12Z

GLUE2EntityCreationTime: 2013-03-21T08:19:35Z

cg08.ific.uv.es_lbserver_201164012_org.glite.lb.Server_201164012, cg08.ific

.uv.es_lbserver_201164012, resource, glue

dn: GLUE2EndpointID=cg08.ific.uv.es_lbserver_201164012_org.glite.lb.Server_201

164012, GLUE2ServiceID=cg08.ific.uv.es_lbserver_201164012, GLUE2GroupID=resourc

e,o=glue

GLUE2EntityValidity: 3600

GLUE2EndpointQualityLevel: production

GLUE2EndpointImplementor: gLite

GLUE2EndpointHealthStateInfo: glite-lb-notif-interlogd running as 5444 glite-l

b-interlogd for proxy running as 5478 glite-lb-bkserverd running as 5394 glit

e-jp-importer not running (disabled)

GLUE2EntityOtherInfo: InfoProviderName=glite-info-glue2-endpoint

GLUE2EntityOtherInfo: InfoProviderVersion=1.4

GLUE2EntityOtherInfo: InfoProviderHost=cg08.ific.uv.es

GLUE2EntityOtherInfo: ProfileName=EGI

GLUE2EntityOtherInfo: ProfileVersion=1.0

GLUE2EntityOtherInfo: OSName=ScientificCERNSLC

GLUE2EntityOtherInfo: OSVersion=6.4

GLUE2EntityOtherInfo: MiddlewareName=EMI

GLUE2EntityOtherInfo: MiddlewareVersion=3.0.0-1

GLUE2EntityOtherInfo: HostDN=/DC=es/DC=irisgrid/O=ifc/CN=cg08.ific.uv.es

GLUE2EndpointCapability: information.logging

GLUE2EndpointHealthState: ok

GLUE2EndpointServiceForeignKey: cg08.ific.uv.es_lbserver_201164012

GLUE2EntityName: Server endpoint for Service cg08.ific.uv.es_lbserver_20116401

GLUE2EndpointTechnology: webservice

GLUE2EndpointWSDL: <http://egee.cesnet.cz/cms/export/sites/egee/en/WSDL/3.1/LB>.

wSDL

GLUE2EndpointInterfaceName: org.glite.lb.Server

GLUE2EndpointURL: <https://cg08.ific.uv.es:9003/>

GLUE2EndpointDowntimeInfo: See the GOC DB for downtimes: <https://goc.egi.eu/>

GLUE2EndpointImplementationVersion: 3.0.7

GLUE2EndpointSemantics: <https://edms.cern.ch/file/571273/2/LB-guide.pdf>

GLUE2EndpointIssuerCA: /DC=es/DC=irisgrid/CN=IRISGridCA

GLUE2EndpointServingState: production

GLUE2EndpointImplementationName: LB

GLUE2EndpointInterfaceVersion: 4.0.4

objectClass: GLUE2Endpoint

GLUE2EndpointTrustedCA: IGTF

GLUE2EndpointID: cg08.ific.uv.es_lbserver_201164012_org.glite.lb.Server_201164

012

GLUE2EntityCreationTime: 2013-03-21T08:19:39Z

search result

search: 2

result: 0 Success

numResponses: 3

numEntries: 2

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\$ voms-proxy-init --voms ific

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 Thu Mar 21 21:25:04 2013

-bash-3.2\$ glite-wms-job-delegate-proxy -e https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server -d \$USER

Connecting to the service https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server

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

Your proxy has been successfully delegated to the WMPProxy(s):

https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server

with the delegation identifier: briongos

-bash-3.2\$ glite-wms-job-list-match -e https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server -d \$USER
hello_world.jdl

Connecting to the service https://cg08.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
- =====

```
-bash-3.2$ glite-wms-job-submit -e https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server -d $USER  
hello_world.jdl
```

Connecting to the service https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server

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

The job has been successfully submitted to the WMPProxy

Your job identifier is:

https://cg08.ific.uv.es:9000/uXCk2EM_XS9DZuTGQfZGng

```
-bash-3.2$ glite-wms-job-status https://cg08.ific.uv.es:9000/uXCk2EM_XS9DZuTGQfZGng
```

```
===== glite-wms-job-status Success =====
```

BOOKKEEPING INFORMATION:

Status info for the Job : https://cg08.ific.uv.es:9000/uXCk2EM_XS9DZuTGQfZGng

Current Status: Done (Success)

Logged Reason(s):

- job completed

- Job Terminated Successfully

Exit code: 0

Status Reason: Job Terminated Successfully

Destination: ce03.ific.uv.es:8443/cream-pbs-ificL

Submitted: Thu Mar 21 09:29:03 2013 CET

```
=====
```

OUTPUT:

-bash-3.2\$ glite-wms-job-output https://cg08.ific.uv.es:9000/uXCk2EM_XS9DZuTGQfZGng

Connecting to the service https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server

JOB GET OUTPUT OUTCOME

Output sandbox files for the job:

https://cg08.ific.uv.es:9000/uXCk2EM_XS9DZuTGQfZGng

have been successfully retrieved and stored in the directory:

/tmp/jobOutput/briongos_uXCk2EM_XS9DZuTGQfZGng

CANCELLATION:

-bash-3.2\$ glite-wms-job-submit -e https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server -d \$USER
hello_world.jdl

Connecting to the service https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server

glite-wms-job-submit Success

The job has been successfully submitted to the WMPProxy

Your job identifier is:

https://cg08.ific.uv.es:9000/pbaGLDZ80ptT1SwmB3rtUQ

-bash-3.2\$ glite-wms-job-cancel https://cg08.ific.uv.es:9000/pbaGLDZ80ptT1SwmB3rtUQ

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

Connecting to the service https://cg08.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://cg08.ific.uv.es:9000/pbaGLDZ80ptT1SwmB3rtUQ

=====

-bash-3.2\$ glite-wms-job-status https://cg08.ific.uv.es:9000/pbaGLDZ80ptT1SwmB3rtUQ

===== glite-wms-job-status Success =====

BOOKKEEPING INFORMATION:

Status info for the Job : https://cg08.ific.uv.es:9000/pbaGLDZ80ptT1SwmB3rtUQ

Current Status: Cancelled

Logged Reason(s):

- Job has been terminated (got SIGTERM)
- Cancelled by user

Status Reason: Cancelled by user

Destination: ce03.ific.uv.es:8443/cream-pbs-short

Submitted: Thu Mar 21 09:35:39 2013 CET

=====

JOBSCH_JOB_4 (Parallel job): PASSED

```
-bash-3.2$ cat mpi-test.jdl
```

```
JobType      = "normal";
CPUNumber    = 4;
Executable   = "mpi-start-wrapper.sh";
Arguments    = "mpi-test OPENMPI";
StdOutput    = "mpi-test.out";
StdError     = "mpi-test.err";
InputSandbox = {"mpi-start-wrapper.sh","mpi-hooks.sh","mpi-test.c"};
OutputSandbox = {"mpi-test.err","mpi-test.out"};
VirtualOrganisation = "ific";
Requirements = member("MPI-START", other.GlueHostApplicationSoftwareRunTimeEnvironment)
              && member("OPENMPI", other.GlueHostApplicationSoftwareRunTimeEnvironment);
```

```
-bash-3.2$ glite-wms-job-status https://cg08.ific.uv.es:9000/UAW436aL2PEfbpL16dzwwg
```

```
===== glite-wms-job-status Success =====
```

BOOKKEEPING INFORMATION:

Status info for the Job : <https://cg08.ific.uv.es:9000/UAW436aL2PEfbpL16dzwwg>

Current Status: Done (Success)

Logged Reason(s):

- job completed
- Job Terminated Successfully

Exit code: 0

Status Reason: Job Terminated Successfully

Destination: ce02.ific.uv.es:8443/cream-pbs-infbandIficL

Submitted: Thu Mar 21 09:44:30 2013 CET

-bash-3.2\$ glite-wms-job-output https://cg08.ific.uv.es:9000/UAW436aL2PEfbpL16dzwwg

Connecting to the service https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server

JOB GET OUTPUT OUTCOME

Output sandbox files for the job:

https://cg08.ific.uv.es:9000/UAW436aL2PEfbpL16dzwwg

have been successfully retrieved and stored in the directory:

/tmp/jobOutput/briongos_UAW436aL2PEfbpL16dzwwg

-bash-3.2\$ cat /tmp/jobOutput/briongos_UAW436aL2PEfbpL16dzwwg/mpi-test.out

Compiling /rhome/ifc012/home_cream_643282747/CREAM643282747/mpi-test

which mpicc

/opt/openmpi/1.4.1/bin/mpicc

mpicc -o /rhome/ifc012/home_cream_643282747/CREAM643282747/mpi-test
/rhome/ifc012/home_cream_643282747/CREAM643282747/mpi-test.c

Successfully compiled /rhome/ifc012/home_cream_643282747/CREAM643282747/mpi-test

Hello world! from processor 0 out of 4

Hello world! from processor 1 out of 4

Hello world! from processor 3 out of 4

Hello world! from processor 2 out of 4

Executing post hook.

Finished the post hook.

JOBSCH_JOB_6 (Parametric Job Submission): PASSED

```
-bash-3.2$ ./WMS-job-parametric.sh -d 1

====> ++++++
====> + TestSuite of the gLite-WMS command line interface
====> + Description: test parametric jobs
====> ++++++

====> >>>

====> >>> TEST 01: Test integer version of Parameters
====> >>> Test success!

====> >>>

====> >>> TEST 02: Test integer version of Parameters changing 'start' and 'step' values
====> >>> Test success!

====> >>>

====> >>> TEST 03: Test list version of Parameters
====> >>> Test success!

====> >>>

====> >>> TEST 04: Test submission and check the output
====> >>> Test success!

====> >>>

====> >>> TEST 05: Test submission using a list as parameters
====> >>> Test success!

====>

====> Test: WMS-job-parametric
====> WMS: cg08.ific.uv.es
====> Started: 09:58:39
====> Ended : 10:02:47

====>

====>  === 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" };] };
]
```

```
-bash-3.2$ glite-wms-job-submit -e https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server -d $USER
prueba_collection.jdl
```

Connecting to the service https://cg08.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://cg08.ific.uv.es:9000/pnauxIPBAWbcEbVy9KWYQ>

=====

-bash-3.2\$ glite-wms-job-status https://cg08.ific.uv.es:9000/pnauaXIPBAWbcEbVy9KWyQ

===== glite-wms-job-status Success =====

BOOKKEEPING INFORMATION:

Status info for the Job : <https://cg08.ific.uv.es:9000/pnauaXIPBAWbcEbVy9KWyQ>

Current Status: Done (Success)

Exit code: 0

Submitted: Thu Mar 21 10:06:53 2013 CET

- Nodes information for:

Status info for the Job : https://cg08.ific.uv.es:9000/U0kfqFAM_TIHPxkolaBEqQ

Current Status: Done (Success)

Logged Reason(s):

- job completed

- Job Terminated Successfully

Exit code: 0

Status Reason: Job Terminated Successfully

Destination: ce03.ific.uv.es:8443/cream-pbs-short

Submitted: Thu Mar 21 10:06:53 2013 CET

Status info for the Job : https://cg08.ific.uv.es:9000/pPNgWIKM8H_ROXpdiStwBg

Current Status: Done (Success)

Logged Reason(s):

- job completed

- Job Terminated Successfully

Exit code: 0

Status Reason: Job Terminated Successfully

Destination: ce03.ific.uv.es:8443/cream-pbs-ificL

Submitted: Thu Mar 21 10:06:53 2013 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}};
```

```
]
```

```
-bash-3.2$ glite-wms-job-submit -e https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server -d $USER  
prueba_dag.jdl
```

Connecting to the service https://cg08.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://cg08.ific.uv.es:9000/5SRTTJqlfE9omLwOLHs2vA>

```
-bash-3.2$ glite-wms-job-status https://cg08.ific.uv.es:9000/5SRTTJqlfE9omLwOLHs2vA
```

```
===== glite-wms-job-status Success =====
```

BOOKKEEPING INFORMATION:

Status info for the Job : <https://cg08.ific.uv.es:9000/5SRTTJqlfE9omLwOLHs2vA>

Current Status: Done (Success)

Exit code: 0

Status Reason: DAG successfully completed

Destination: dagman

Submitted: Thu Mar 21 10:54:56 2013 CET

- Nodes information for:

Status info for the Job : <https://cg08.ific.uv.es:9000/18ToILGrIogJMD-P3-JC7A>

Current Status: Done (Success)

Logged Reason(s):

- job completed
- Job Terminated Successfully

Exit code: 0

Status Reason: Job Terminated Successfully

Destination: ce03.ific.uv.es:8443/cream-pbs-ificL

Submitted: Thu Mar 21 10:54:56 2013 CET

Status info for the Job : <https://cg08.ific.uv.es:9000/ereWOk-UeRf33IKoGK4NeA>

Current Status: Done (Success)

Logged Reason(s):

- job completed
- Job Terminated Successfully

Exit code: 0

Status Reason: Job Terminated Successfully

Destination: ce02.ific.uv.es:8443/cream-pbs-infbandShort

Submitted: Thu Mar 21 10:54:56 2013 CET

JOBSCH_WMS_1 (Proxy Renewal): PASSED → tested with a 15 minutes proxy, and a 30 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: Thu Mar 28 10:58:31 2013
```

```
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\$ myproxy-info -d

username: /DC=es/DC=irisgrid/O=ific/CN=Pablo.Briongos

owner: /DC=es/DC=irisgrid/O=ific/CN=Pablo.Briongos

timeleft: 167:59:52 (7.0 days)

-bash-3.2\$ voms-proxy-init --voms ific --valid 0:15

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 Thu Mar 21 11:14:03 2013

-bash-3.2\$ glite-wms-job-delegate-proxy -e https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server -d \$USER

Connecting to the service https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server

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

Your proxy has been successfully delegated to the WMPProxy(s):

https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server

with the delegation identifier: briongos

=====

-bash-3.2\$ glite-wms-job-submit -e https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server -d \$USER
hello_world.jdl

Connecting to the service https://cg08.ific.uv.es:7443/glite_wms_wmproxy_server

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

The job has been successfully submitted to the WMPProxy

Your job identifier is:

<https://cg08.ific.uv.es:9000/BMjI4pajH1iQkBwF0cwNQg>

=====
After 30 minutes (and renewing the proxy again):

```
-bash-3.2$ glite-wms-job-status https://cg08.ific.uv.es:9000/BMjI4pajH1iQkBwF0cwNQg
```

```
===== glite-wms-job-status Success =====
```

BOOKKEEPING INFORMATION:

Status info for the Job : <https://cg08.ific.uv.es:9000/BMjI4pajH1iQkBwF0cwNQg>

Current Status: Done (Success)

Logged Reason(s):

- job completed
- Job Terminated Successfully

Exit code: 0

Status Reason: Job Terminated Successfully

Destination: ce02.ific.uv.es:8443/cream-pbs-infbandIficL

Submitted: Thu Mar 21 11:00:05 2013 CET

=====
JOBSCH_WMS_2 (Job Resubmission): PASSED

```
-bash-3.2$ ./WMS-job-resubmit.sh -d 1
```

```
====> ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
```

```
====> + TestSuite of the gLite-WMS command line interface
```

```
====> + Description: test job resubmission
```

```
====> ++++++
====> >>>
====> >>> Try a shallow resubmission
====> >>> Test success
====> >>>
====> >>> Try a deep resubmission
====> >>> Test success
====>
====> Test: WMS-job-resubmit
====> WMS: cg08.ific.uv.es
====> Started: 10:10:35
====> Ended : 10:21:29
====>
====>  === test PASSED ===
```

MON_PROBE_JOBSCH_1 (WMS Probes): PASSED

-bash-3.2\$./WMS-probe --vo ific -H cg08.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://cg08.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://cg08.ific.uv.es:9000/HhsTG4pCxVxnnFEDsm-yRA>

The job identifier has been saved in the following file:

/var/lib/gridprobes/ific/emi.wms/WMS/cg08.ific.uv.es/jobID

```
-bash-3.2$ ./WMS-probe --vo ific -H cg08.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/cg08.ific.uv.es/jobID
```

```
Job bookkeeping files deleted.
```


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: