

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

| | | | |
|-------------------------|--|-----------------------|-------------------------------|
| Name of the component | LB | | |
| Release | EMI.lb.sl6.x86 64-4.0.9 | RT Ticket | 5432 |
| Software Provider | EMI | | |
| Release Contact | Name: cristina.aiftimiei@pd.infn.it | E-Mail | cristina.aiftimiei@pd.infn.it |
| Validator | Name: Pablo Briongos | E-Mail | pablo.briongos@ific.uv.es |
| V. Hours Worked | 15h | | |
| Component status | VERIFIED | Date | 7 th May, 2013 |
| Verification start date | 3 th May, 2013 | Verification end date | 7 th May, 2013 |

Summary:

*This *EMI-3 LB 4.0.9* bugfix release for SL6 was successfully upgraded from a previous *LB 4.0.4 EMI-3* version and configured in a Scientific Linux 6.4 (carbon) node, collocated with WMS 3.5.0 SL6 release for EMI-3.

*This release is a bugfix release, so bugfixes which could be locally tested were checked successfully.

*The product works as expected and the functionality is correct in the evaluated areas.

*The basic job registration has been proven to work correctly with the collocated EMI-3 WMS 3.5.0 release.

*There is a complete test suite for the product.

*There were problems with *glite-lb-bkserved* after configuration. *YAIM* should “kill -9” all LB processes, but it doesn't perform it, so we have to kill them manually. If you don't kill these open processes LB will crash and won't work. There is a GGUS ticket opened for it:

https://ggus.eu/tech/ticket_show.php?ticket=93798

*The issue related to *log4c* version 1.2.3 which is not compatible and breaks with the LB (GGUS ticket: https://ggus.eu/ws/ticket_info.php?ticket=93769) is fixed successfully in this release.

GGUS Tickets:

https://ggus.eu/tech/ticket_show.php?ticket=93798

Summary of Quality Criteria verification:

| Generic Quality Criteria Total (Critical/Non critical) | | | | |
|--|--------|------------|----------------|-------|
| | Passed | Not passed | Not Applicable | Total |
| TP | | | | |
| VLD | 23 | | | 23 |
| Specific Quality Criteria | | | | |
| TP | | | | |
| VLD | 5 | | 3 | 8 |

Quality Criteria verification cheatsheet:

DOCUMENTATION QC

| | | | |
|---|---|-----|---|
| GENERIC_DOC_1 (Functional Description) | Y | VLD | http://egee.cesnet.cz/cvsweb/LB/LBUG.pdf |
| GENERIC_DOC_2 (Release Notes) | Y | VLD | http://www.eu-emi.eu/releases/emi-3-monte-bianco/updates/-/asset_publisher/5Na8/content/update-3-30-04-2013-v-3-2-0-1#_B_v_ |
| GENERIC_DOC_3 (User Documentation) | Y | VLD | http://egee.cesnet.cz/cvsweb/LB/LBUG.pdf |
| GENERIC_DOC_4 (Online help (man pages)) | Y | VLD | |
| GENERIC_DOC_5 (API Documentation) | Y | VLD | http://egee.cesnet.cz/cvsweb/LB/LBDG.pdf |
| GENERIC_DOC_6 (Administrator Documentation) | Y | VLD | http://egee.cesnet.cz/cvsweb/LB/LBAG.pdf |
| GENERIC_DOC_7 (Service Reference Card) | Y | VLD | https://twiki.cern.ch/twiki/bin/view/EMI/LBServiceReferenceCard |
| GENERIC_DOC_8 (Software License) | Y | VLD | http://www.apache.org/licenses/LICENSE-2.0.html |
| GENERIC_DOC_9 (Release changes testing) | Y | VLD | https://twiki.cern.ch/twiki/bin/view/EGEE/TestReportForLBEMI3Update1#Review_of_Linked_Bugs |

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 | |
| GENERIC_SOFT_2 (New features testing) | Y | VLD | View executive summary |

SERVICE CRITERIA QC

| | | | |
|--|---|-----|---|
| GENERIC_SERVICE_1 (Service control and status) | Y | VLD | Checked with "/etc/init.d/gLite status" |
| GENERIC_SERVICE_2 (Log Files) | Y | VLD | Log located in "/var/log/messages" |
| 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#LB |

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) | NA | VLD | Optional |
| AUTHN_PROTO_1 (TLSSSLv3 Support) | Y | VLD | |

MONITORING PROBES QC

| | | | |
|--|----|-----|---|
| MON_PROBE_GENERIC_1 (Certificate Lifetime Probe) | Y | VLD | Probe included in LB Nagios |
| MON_PROBE_GENERIC_2 (Service Probe) | NA | VLD | Optional. State of Nagios service probes: https://twiki.cern.ch/twiki/bin/view/EMI/NagiosProbes |

CLIENT TOOLS QC

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

Validator comments:

*Validation went through without any problem. We performed basic tests for the job cycle.

*These three bugfixes were certified by code review by TP (view https://twiki.cern.ch/twiki/bin/view/EGEE/TestReportForLBEMI2Update3#Review_of_Linked_Bugs):

- Check for zombies in LB server is very inefficient (bug #100381)
- LB client library does not handle LB_PERM error from server (bug #100842)
- edg_wll_NotifMatch() should not return EPERM (bug #100845)

*The next bugfixes were tested successfully by us:

[LB proxy uses zero default purge timeouts \(bug #100808\)](#)

```
[root@cg08 scripts_utilidad]# JOBID=`/usr/lib64/glite-lb/examples/glite-lb-job_reg -X /tmp/lb_proxy_store.sock -m cg08.ific.uv.es:9000 -s Application | grep EDG_JOBID | sed 's/"$//' | sed 's/^\.*$//'
```

```
[root@cg08 scripts_utilidad]# UNIQ=`echo $JOBID | sed 's/^\.*$//'
```

```
[root@cg08 scripts_utilidad]# echo $JOBID
```

```
https://cg08.ific.uv.es:9000/Yb_trgyne8IER_uA11__bw
```

```
[root@cg08 scripts_utilidad]# echo $UNIQ
```

```
Yb_trgyne8IER_uA11__bw
```

```
[root@cg08 scripts_utilidad]# /usr/lib64/glite-lb/examples/glite-lb-done.sh -X /tmp/lb_proxy_store.sock -j $JOBID
```

```
/usr/lib64/glite-lb/examples/./././bin/glite-lb-logevent -x -S /tmp/lb_proxy_store.sock -j
https://cg08.ific.uv.es:9000/Yb_trgyne8IER_uA11__bw -c
UI=000003:NS=0000000000:WM=000000:BH=0000000000:JSS=000000:LM=000000:LRMS=000000:APP=000000:LBS=00000
0 -s NetworkServer -e Accepted --from=UserInterface --from_host=sending component hostname --from_instance=sending
component instance --local_jobid=new jobId (Condor Globus ...)
```

```
/usr/lib64/glite-lb/examples/./././bin/glite-lb-logevent -x -S /tmp/lb_proxy_store.sock -j
https://cg08.ific.uv.es:9000/Yb_trgyne8IER_uA11__bw -c
UI=000003:NS=0000000002:WM=000000:BH=0000000000:JSS=000000:LM=000000:LRMS=000000:APP=000000:LBS=00000
0 -s NetworkServer -e EnQueued --queue=destination queue --job=job description in receiver language --result=OK
--reason=detailed description of transfer
```

```
/usr/lib64/glite-lb/examples/./././bin/glite-lb-logevent -x -S /tmp/lb_proxy_store.sock -j
https://cg08.ific.uv.es:9000/Yb_trgyne8IER_uA11__bw -c
UI=000003:NS=0000000004:WM=000000:BH=0000000000:JSS=000000:LM=000000:LRMS=000000:APP=000000:LBS=00000
0 -s WorkloadManager -e DeQueued --queue=queue name --local_jobid=new jobId assigned by the receiving component
```

```
/usr/lib64/glite-lb/examples/./././bin/glite-lb-logevent -x -S /tmp/lb_proxy_store.sock -j
https://cg08.ific.uv.es:9000/Yb_trgyne8IER_uA11__bw -c
UI=000003:NS=0000000004:WM=000002:BH=0000000000:JSS=000000:LM=000000:LRMS=000000:APP=000000:LBS=00000
0 -s WorkloadManager -e HelperCall --helper_name=name of the called component --helper_params=parameters of the call
--src_role=CALLING
```

```
/usr/lib64/glite-lb/examples/./././bin/glite-lb-logevent -x -S /tmp/lb_proxy_store.sock -j
https://cg08.ific.uv.es:9000/Yb_trgyne8IER_uA11__bw -c
UI=000003:NS=0000000004:WM=000004:BH=0000000000:JSS=000000:LM=000000:LRMS=000000:APP=000000:LBS=00000
0 -s WorkloadManager -e Match --dest_id=destination CE/queue
```

```
/usr/lib64/glite-lb/examples/./././bin/glite-lb-logevent -x -S /tmp/lb_proxy_store.sock -j
https://cg08.ific.uv.es:9000/Yb_trgyne8IER_uA11__bw -c
```

```
UI=000003:NS=0000000004:WM=000006:BH=0000000000:JSS=000000:LM=000000:LRMS=000000:APP=000000:LBS=00000
0 -s WorkloadManager -e HelperReturn --helper_name=name of the called component --retval=returned data --src_role=CALLING
```

```
/usr/lib64/glite-lb/examples/../../../../bin/glite-lb-logevent -x -S /tmp/lb_proxy_store.sock -j
https://cg08.ific.uv.es:9000/Yb_trgyne8IER_uA11__bw -c
UI=000003:NS=0000000004:WM=000008:BH=0000000000:JSS=000000:LM=000000:LRMS=000000:APP=000000:LBS=00000
0 -s WorkloadManager -e EnQueued --queue=destination queue --job=job description in receiver language --result=OK
--reason=detailed description of transfer
```

```
/usr/lib64/glite-lb/examples/../../../../bin/glite-lb-logevent -x -S /tmp/lb_proxy_store.sock -j
https://cg08.ific.uv.es:9000/Yb_trgyne8IER_uA11__bw -c
UI=000003:NS=0000000004:WM=000010:BH=0000000000:JSS=000000:LM=000000:LRMS=000000:APP=000000:LBS=00000
0 -s JobController -e DeQueued --queue=queue name --local_jobid=new jobId assigned by the receiving component
```

```
/usr/lib64/glite-lb/examples/../../../../bin/glite-lb-logevent -x -S /tmp/lb_proxy_store.sock -j
https://cg08.ific.uv.es:9000/Yb_trgyne8IER_uA11__bw -c
UI=000003:NS=0000000004:WM=000010:BH=0000000000:JSS=000002:LM=000000:LRMS=000000:APP=000000:LBS=00000
0 -s JobController -e Transfer --destination=LRMS --dest_host=destination hostname --dest_instance=destination instance --job=job
description in receiver language --result=OK --reason=detailed description of transfer --dest_jobid=destination internal jobId
```

```
/usr/lib64/glite-lb/examples/../../../../bin/glite-lb-logevent -x -S /tmp/lb_proxy_store.sock -j
https://cg08.ific.uv.es:9000/Yb_trgyne8IER_uA11__bw -c
UI=000003:NS=0000000004:WM=000010:BH=0000000000:JSS=000004:LM=000000:LRMS=000000:APP=000000:LBS=00000
0 -s LogMonitor -e Accepted --from=JobController --from_host=sending component hostname --from_instance=sending component
instance --local_jobid=new jobId (Condor Globus ...)
```

```
/usr/lib64/glite-lb/examples/../../../../bin/glite-lb-logevent -x -S /tmp/lb_proxy_store.sock -j
https://cg08.ific.uv.es:9000/Yb_trgyne8IER_uA11__bw -c
UI=000003:NS=0000000004:WM=000010:BH=0000000000:JSS=000004:LM=000002:LRMS=000000:APP=000000:LBS=00000
0 -s LogMonitor -e Transfer --destination=LRMS --dest_host=destination hostname --dest_instance=destination instance --job=job
description in receiver language --result=OK --reason=detailed description of transfer --dest_jobid=destination internal jobId
```

```
/usr/lib64/glite-lb/examples/../../../../bin/glite-lb-logevent -x -S /tmp/lb_proxy_store.sock -j
https://cg08.ific.uv.es:9000/Yb_trgyne8IER_uA11__bw -c
UI=000003:NS=0000000004:WM=000010:BH=0000000000:JSS=000004:LM=000004:LRMS=000000:APP=000000:LBS=00000
0 -s LogMonitor -e Running --node=worker node
```

```
/usr/lib64/glite-lb/examples/../../../../bin/glite-lb-logevent -x -S /tmp/lb_proxy_store.sock -j
https://cg08.ific.uv.es:9000/Yb_trgyne8IER_uA11__bw -c
UI=000003:NS=0000000004:WM=000010:BH=0000000000:JSS=000004:LM=000006:LRMS=000000:APP=000000:LBS=00000
0 -s LogMonitor -e Done --status_code=OK --reason=reason for the change --exit_code=0
```

```
[root@cg08 scripts_utilidad]# mysql -u lbserver lbserver20 -e "select proxy,server from jobs where jobId='$UNIQ'"
```

```
+-----+-----+
```

```
| proxy | server |
```

```
+-----+-----+
```

```
| 1 | 1 |
```

```
+-----+-----+
```

```
[root@cg08 scripts_utilidad]# glite-lb-purge -X /tmp/lb_proxy_serve.sock -x
```

```
The jobs were not dumped.
```

```
[root@cg08 scripts_utilidad]# sleep 2
```

```
[root@cg08 scripts_utilidad]# mysql -u lbserver lbserver20 -e "select proxy,server from jobs where jobId='$UNIQ'"
```

```
+-----+-----+
```

```
| proxy | server |
```

```
+-----+-----+
```

```
| 1 | 1 |
```

```
+-----+-----+
```

[check_jobstat_authz\(\) always denies STATUS_FOR_MONITORING permission \(bug #100843\)](#)

[root@cg08 ~]# /usr/lib64/glite-lb/examples/glite-lb-job_status https://cg08.ific.uv.es:9000/mUScPAUZjdMc113kFIoP1w

state : Done

jobId : https://cg08.ific.uv.es:9000/mUScPAUZjdMc113kFIoP1w

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

payload_owner : (null)

jobtype : Simple

parent_job : (null)

condorId : (null)

globusId : (null)

localId : (null)

```
jdl : [ OutputSandboxPath =
"/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w/output"; StdOutput = "hw.out";
ShallowRetryCount = 10; SignificantAttributes = { "Requirements","Rank","FuzzyRank" }; RetryCount = 3; Executable =
"/bin/echo"; Type = "job"; LB_sequence_code =
"UI=000000:NS=0000000004:WM=000000:BH=0000000000:JSS=000000:LM=000000:LRMS=000000:APP=000000:LBS=0000
00"; Arguments = "25m"; AllowZippedISB = true; VirtualOrganisation = "ific"; JobType = "normal"; DefaultRank =
-other.GlueCEStateEstimatedResponseTime; OutputSandboxDestURI =
{ "gsiftp://cg08.ific.uv.es:2811/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w/output
/hw.out","gsiftp://cg08.ific.uv.es:2811/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1
w/output/hw.err" }; OutputSandbox = { "hw.out","hw.err" }; edg_jobid =
"https://cg08.ific.uv.es:9000/mUScPAUZjdMc113kFIoP1w"; VOMS_FQAN = "/ific/Role=NULL/Capability=NULL";
CertificateSubject = "/DC=es/DC=irisgrid/O=ific/CN=Pablo.Briongos"; StdError = "hw.err"; InputSandboxPath =
"/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w/input"; rank =
-other.GlueCEStateEstimatedResponseTime; MyProxyServer = "lcg2proxy.ific.uv.es"; X509UserProxy =
"/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w/user.proxy"; requirements =
( other.GlueCEStateStatus == "Production" ) && ( ( ShortDeadlineJob is true ? RegExp(".*sdj$"),other.GlueCEUniqueID) : !
RegExp(".*sdj$"),other.GlueCEUniqueID) ) && ( other.GlueCEPolicyMaxTotalJobs == 0 || other.GlueCEStateTotalJobs <
other.GlueCEPolicyMaxTotalJobs ) && ( EnableWmsFeedback is true ? RegExp("cream",other.GlueCEImplementationName,"i") :
true ) && ( member(CertificateSubject,other.GlueCEAccessControlBaseRule) ||
member(strcat("VO:",VirtualOrganisation),other.GlueCEAccessControlBaseRule) ||
FQANmember(strcat("VOMS:",VOMS_FQAN),VOMS_FQAN),other.GlueCEAccessControlBaseRule) ) is true &&
FQANmember(strcat("DENY:",VOMS_FQAN),other.GlueCEAccessControlBaseRule) isnt true &&
( IsUndefined(other.OutputSE) || member(other.OutputSE,other.GlueCESEBindGroupSEUniqueID) ) ) );
WMPInputSandboxBaseURI =
"gsiftp://cg08.ific.uv.es:2811/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w" ]
```

```
matched_jdl : [ Source = 2; Protocol = "1.0.0"; Arguments = [ JobAd = [ CEInfoHostName = "ce03.ific.uv.es"; OutputSandboxPath
="/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w/output"; StdOutput = "hw.out";
GlobusResourceContactString = "ce03.ific.uv.es:8443/cream-pbs"; QueueName = "ificL"; ShallowRetryCount = 10;
SignificantAttributes = { "Requirements","Rank","FuzzyRank" }; RetryCount = 3; Executable = "/bin/echo"; Type = "job";
LB_sequence_code =
"UI=000000:NS=0000000004:WM=000005:BH=0000000000:JSS=000000:LM=000000:LRMS=000000:APP=000000:LBS=0000
00"; Arguments = "25m"; AllowZippedISB = true; VirtualOrganisation = "ific"; JobType = "normal"; DefaultRank =
-other.GlueCEStateEstimatedResponseTime; ce_id = "ce03.ific.uv.es:8443/cream-pbs-ificL"; OutputSandboxDestURI =
{ "gsiftp://cg08.ific.uv.es:2811/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w/output
/hw.out","gsiftp://cg08.ific.uv.es:2811/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1
w/output/hw.err" }; OutputSandbox = { "hw.out","hw.err" }; CeRequirements = "true && ( ( true && ( ShortDeadlineJob is true ?
false : true ) && ( EnableWmsFeedback is true ? true : true ) &&
( member("/DC=es/DC=irisgrid/O=ific/CN=Pablo.Briongos",other.GlueCEAccessControlBaseRule) ||
member("VO:ific",other.GlueCEAccessControlBaseRule) ||
FQANmember("VOMS:/ific/Role=NULL/Capability=NULL",other.GlueCEAccessControlBaseRule) ) is true &&
FQANmember("DENY:/ific/Role=NULL/Capability=NULL",other.GlueCEAccessControlBaseRule) isnt true &&
( IsUndefined(other.OutputSE) || member(other.OutputSE,other.GlueCESEBindGroupSEUniqueID) ) ) ); InputSandbox =
{ "gsiftp://cg08.ific.uv.es:2811/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w/input/
BrokerInfo" }; edg_jobid = "https://cg08.ific.uv.es:9000/mUScPAUZjdMc113kFIoP1w"; VOMS_FQAN =
"/ific/Role=NULL/Capability=NULL"; CertificateSubject = "/DC=es/DC=irisgrid/O=ific/CN=Pablo.Briongos"; StdError =
"hw.err"; InputSandboxPath =
"/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w/input"; CeApplicationDir =
"/lustre/ific.uv.es/sw/ific"; ReallyRunningToken =
"gsiftp://cg08.ific.uv.es/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w/token.txt_0";
rank = -other.GlueCEStateEstimatedResponseTime; lrms_type = "torque"; MyProxyServer = "lcg2proxy.ific.uv.es";
X509UserProxy = "/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w/user.proxy";
```

```
requirements = ( other.GlueCEStateStatus == "Production" ) && ( ( ShortDeadlineJob is true ?
RegExp(".*sdj$",other.GlueCEUniqueID) : !RegExp(".*sdj$",other.GlueCEUniqueID) ) && ( other.GlueCEPolicyMaxTotalJobs
== 0 || other.GlueCEStateTotalJobs < other.GlueCEPolicyMaxTotalJobs ) && ( EnableWmsFeedback is true ?
RegExp("cream",other.GlueCEImplementationName,"i") : true ) &&
( member(CertificateSubject,other.GlueCEAccessControlBaseRule) ||
member(strcat("VO:",VirtualOrganisation),other.GlueCEAccessControlBaseRule) ||
FQANmember(strcat("VOMS:",VOMS_FQAN),other.GlueCEAccessControlBaseRule) ) is true &&
FQANmember(strcat("DENY:",VOMS_FQAN),other.GlueCEAccessControlBaseRule) isnt true &&
( IsUndefined(other.OutputSE) || member(other.OutputSE,other.GlueCESEBindGroupSEUniqueID) ) );
WMPInputSandboxBaseURI =
"gsiftp://cg08.ific.uv.es:2811/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w" ] ];
Command = "Submit" ]
```

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

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

condor_jdl : (null)

```
rsl : [ CEInfoHostName = "ce03.ific.uv.es"; OutputSandboxPath =
"/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w/output"; StdOutput = "hw.out";
GlobusResourceContactString = "ce03.ific.uv.es:8443/cream-pbs"; QueueName = "ifcL"; ShallowRetryCount = 10;
SignificantAttributes = { "Requirements","Rank","FuzzyRank" }; RetryCount = 3; Executable = "/bin/echo"; Type = "job";
LB_sequence_code =
"UI=000000:NS=0000000004:WM=000005:BH=0000000000:JSS=000002:LM=000002:LRMS=000000:APP=000000:LBS=0000
00"; Arguments = "25m"; AllowZippedISB = true; VirtualOrganisation = "ifc"; JobType = "normal"; DefaultRank =
-other.GlueCEStateEstimatedResponseTime; ce_id = "ce03.ific.uv.es:8443/cream-pbs-ificL"; OutputSandboxDestURI =
{ "gsiftp://cg08.ific.uv.es:2811/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w/output
/hw.out"; "gsiftp://cg08.ific.uv.es:2811/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1
w/output/hw.err" }; OutputSandbox = { "hw.out","hw.err" }; CeRequirements = "true && ( ( true && ( ShortDeadlineJob is true ?
false : true ) && ( EnableWmsFeedback is true ? true : true ) &&
( member("/DC=es/DC=irisgrid/O=ifc/CN=Pablo.Briongos",other.GlueCEAccessControlBaseRule) ||
member("/VO:ifc",other.GlueCEAccessControlBaseRule) ||
FQANmember("VOMS:/ifc/Role=NULL/Capability=NULL",other.GlueCEAccessControlBaseRule) ) is true &&
FQANmember("DENY:/ifc/Role=NULL/Capability=NULL",other.GlueCEAccessControlBaseRule) isnt true &&
( IsUndefined(other.OutputSE) || member(other.OutputSE,other.GlueCESEBindGroupSEUniqueID) ) )"; InputSandbox =
{ "BrokerInfo" }; edg_jobid = "https://cg08.ific.uv.es:9000/mUScPAUZjdMc113kFIoP1w"; StdError = "hw.err"; CertificateSubject =
"/DC=es/DC=irisgrid/O=ifc/CN=Pablo.Briongos"; VOMS_FQAN = "/ifc/Role=NULL/Capability=NULL"; InputSandboxPath =
"/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w/input"; CeApplicationDir =
"/lustre/ific.uv.es/sw/ifc"; ReallyRunningToken =
"gsiftp://cg08.ific.uv.es/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w/token.txt_0";
rank = -other.GlueCEStateEstimatedResponseTime; lrms_type = "torque"; MyProxyServer = "lcg2proxy.ific.uv.es";
X509UserProxy = "/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w/user.proxy";
requirements = ( other.GlueCEStateStatus == "Production" ) && ( ( ShortDeadlineJob is true ?
RegExp(".*sdj$",other.GlueCEUniqueID) : !RegExp(".*sdj$",other.GlueCEUniqueID) ) && ( other.GlueCEPolicyMaxTotalJobs
== 0 || other.GlueCEStateTotalJobs < other.GlueCEPolicyMaxTotalJobs ) && ( EnableWmsFeedback is true ?
RegExp("cream",other.GlueCEImplementationName,"i") : true ) &&
( member(CertificateSubject,other.GlueCEAccessControlBaseRule) ||
member(strcat("VO:",VirtualOrganisation),other.GlueCEAccessControlBaseRule) ||
FQANmember(strcat("VOMS:",VOMS_FQAN),other.GlueCEAccessControlBaseRule) ) is true &&
FQANmember(strcat("DENY:",VOMS_FQAN),other.GlueCEAccessControlBaseRule) isnt true &&
( IsUndefined(other.OutputSE) || member(other.OutputSE,other.GlueCESEBindGroupSEUniqueID) ) );
WMPInputSandboxBaseURI =
"gsiftp://cg08.ific.uv.es:2811/var/SandboxDir/mU/https_3a_2f_2fcg08.ific.uv.es_3a9000_2fmUScPAUZjdMc113kFIoP1w" ]
```

reason : Job Terminated Successfully

location : none

ce_node : wn451.ific.uv.es

subjob_failed : 0

done_code : DONE_CODE_OK

exit_code : 0

resubmitted : 0

cancelling : 0

cancelReason : (null)

cpuTime : -1

user_tags :
ceinfohostname = "ce03.ific.uv.es"
stateEnterTime : 1367843176.741693
stateEnterTimes :
 Undefined - not available -
 Submitted Mon May 6 14:25:53 2013
 Waiting Mon May 6 14:25:54 2013
 Ready Mon May 6 14:25:55 2013
 Scheduled Mon May 6 14:25:58 2013
 Running Mon May 6 14:26:02 2013
 Done Mon May 6 14:26:16 2013
 Cleared - not available -
 Aborted - not available -
 Cancelled - not available -
 Unknown - not available -
 Purged - not available -
lastUpdateTime : 1367843176.741693
expectUpdate : 0
expectFrom : (null)
acl : (null)
access rights :
(null)payload_running: 0
possible_destinations :
 ce03.ific.uv.es:8443/cream-pbs-ificL
possible_ce_nodes :
 wn451.ific.uv.es
 wn451.ific.uv.es
suspended : 0
suspend_reason : (null)
failure_reasons : (null)
remove_from_proxy : 0
ui_host : NetworkServer
sandbox_retrieved : 0
jw_status : Done
isb_transfer : (null)
osb_transfer : (null)
ft_compute_job : (null)
ft_sandbox_type : UNKNOWN

ft_src : (null)

ft_dest : (null)

one of RegJob events can be optimized out with colocated LB server+proxy (bug #100869)

```
[root@cg08 ~]# unset GLITE_WMS_LBPROXY_SERVERNAME
```

```
[root@cg08 ~]# /usr/lib64/glite-lb/examples/glite-lb-job_reg -X /tmp/lb_proxy_store.sock -m cg08.ific.uv.es:9000 -s Application
```

```
new jobid: https://cg08.ific.uv.es:9000/BifhEY4HIkJHDDApygvVWg
```

```
EDG_JOBID="https://cg08.ific.uv.es:9000/BifhEY4HIkJHDDApygvVWg"
```

```
EDG_WL_SEQUENCE="UI=000000:NS=0000000000:WM=000000:BH=0000000000:JSS=000000:LM=000000:LRMS=000000:APP=000002:LBS=000000"
```

```
[root@cg08 ~]# tail -f /var/log/messages | grep Deadlock
```

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:

*Review *glite-lb-bkserverd* problem. *YAIM* should “kill -9” all LB processes during configuration, but it doesn't perform it, so we have to kill them manually. If you don't kill these open processes LB will crash and won't work. GGUS ticket:

https://ggus.eu/tech/ticket_show.php?ticket=93798