

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

Name of the component	LB		
Release	EMI.lb.sl6.x86_64-3.2.6	RT Ticket	3897
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	20h		
Component status	REJECTED	Date	5 th July, 2012
Verification start date	14 th June, 2012	Verification end date	5 th July, 2012

Summary:

This *EMI-2 LB 3.2.6* release for SL6 is **rejected** because there were some problems related to installation, configuration and with a *globus* library version (*globus-gssapi-gsi*) not compatible with this release.

During installation with yum (installed from scratch in a “Scientific Linux 6.2 Carbon” machine with EMI-2 repositories configured), there were some *crashing* errors. View “Validator comments” for more information.

After configuring with YAIM, there were some problems with gLite services/daemons. More details in “Validator comments” section.

New features and bug fixes were tested and checked. Although there are some problems when using *glite-lb-statistics* command as in SL5 release and some *segfault* issues related to *fetch-crl*.

The product works as expected (with the exception of commented problems) and the functionality is correct in the evaluated areas.

It was tested as a standalone server and the basic job registration has been proven to work correctly with an EMI-1 WMS SL5.

The documentation is updated with the new features information.

There is a complete test suite for the product.

GGUS Tickets:

https://ggus.eu/ws/ticket_info.php?ticket=83386
https://ggus.eu/ws/ticket_info.php?ticket=83387
https://ggus.eu/ws/ticket_info.php?ticket=83388
https://ggus.eu/ws/ticket_info.php?ticket=82746

Summary of Quality Criteria verification:

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
TP	1			1
VLD	20	1		21
	Specific Quality Criteria			
TP				
VLD	5			5

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	In EMI2 LB product page: http://www.eu-emi.eu/emi-2-matterhorn-products/-/asset_publisher/B4Rk/content/!%26b-1
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	TP	Reported in https://twiki.cern.ch/twiki/bin/view/EGEE/TestReportForLBEM12FinalRC

SOFTWARE DISTRIBUTION QC

GENERIC_DIST_1 (Source Code Availability)	Y	VLD	Available in product page
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	Available in product page

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)	N	VLD	Problems with "/etc/init.d/gLite" service. Some services don't start.
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	YAIM configuration tool works fine
GENERIC_SERVICE_6 (Default Password Configuration)	Y	VLD	

SECURITY QC

GENERIC_SEC_1 (World Writable Files)	Y	VLD	Tested with testsuite: org.glite.testsuites.ctb/LB/tests/lb-test-permissions.sh
GENERIC_SEC_3 (Passwords in world readable files)	Y	VLD	

MISCELLANEOUS QC

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

AUTHENTICATION QC

AUTHN_IFACE_1 (X.509 Certificate support)	Y	VLD	Tested with "grid-proxy-init" and a valid X.509 certificate
---	---	-----	---

MONITORING PROBES QC

MON_PROBE_GENERIC_1 (Certificate Lifetime Probe)	Y	VLD	Tested with testsuite: org.glite.testsuites.ctb/LB/tests/lb-test-nagios-probe.sh
MON_PROBE_GENERIC_2 (Service Probe)	Y	VLD	Tested with testsuite: org.glite.testsuites.ctb/LB/tests/lb-test-nagios-probe.sh

CLIENT TOOLS QC

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

Validator comments:

*As it was said in the summary, there were some *crashing* errors during installation with yum. Here the system log:

Common information

=====

package

yum-3.2.29-22.el6_2.2

architecture

x86_64

kernel

2.6.32-220.el6.x86_64

Additional information

=====

uid

0

time

1339674719

executable

/usr/bin/python

component

yum

hostname

cg01.ific.uv.es

username

root

cmdline

/usr/bin/python /usr/bin/yum install emi-lb

analyzer

CCpp

maps

00400000-00401000 r-xp 00000000 fd:00 534677	/usr/bin/python
00600000-00601000 rw-p 00000000 fd:00 534677	/usr/bin/python
016bd000-07997000 rw-p 00000000 00:00 0	[heap]
7fa025042000-7fa025043000 rw-p 00000000 00:00 0	
7fa025044000-7fa0250fc000 rw-s 00000000 fd:00 786551	/var/lib/rpm/__db.004
7fa0250fc000-7fa02523e000 rw-s 00000000 fd:00 786550	/var/lib/rpm/__db.003
7fa02523e000-7fa025276000 rw-s 00000000 fd:00 786549	/var/lib/rpm/__db.002
7fa025276000-7fa02532e000 rw-s 00000000 fd:00 786551	/var/lib/rpm/__db.004
7fa02532e000-7fa025470000 rw-s 00000000 fd:00 786550	/var/lib/rpm/__db.003
7fa025470000-7fa0254a8000 rw-s 00000000 fd:00 786549	/var/lib/rpm/__db.002
7fa0254a8000-7fa0254ad000 r-xp 00000000 fd:00 1966107	/lib64/libnss_dns-2.12.so
7fa0254ad000-7fa0256ac000 ---p 00005000 fd:00 1966107	/lib64/libnss_dns-2.12.so
7fa0256ac000-7fa0256ad000 r--p 00004000 fd:00 1966107	/lib64/libnss_dns-2.12.so
7fa0256ad000-7fa0256ae000 rw-p 00005000 fd:00 1966107	/lib64/libnss_dns-2.12.so
7fa0256ae000-7fa0256b7000 r-xp 00000000 fd:00 534243	/usr/lib64/python2.6/lib-dynload/_elementtree.so
7fa0256b7000-7fa0258b7000 ---p 00009000 fd:00 534243	/usr/lib64/python2.6/lib-dynload/_elementtree.so
7fa0258b7000-7fa0258b8000 rw-p 00009000 fd:00 534243	/usr/lib64/python2.6/lib-dynload/_elementtree.so
7fa0258b8000-7fa0258de000 r-xp 00000000 fd:00 1966155	/lib64/libexpat.so.1.5.2
7fa0258de000-7fa025add000 ---p 00026000 fd:00 1966155	/lib64/libexpat.so.1.5.2
7fa025add000-7fa025ae0000 rw-p 00025000 fd:00 1966155	/lib64/libexpat.so.1.5.2
7fa025ae0000-7fa025aeb000 r-xp 00000000 fd:00 534283	/usr/lib64/python2.6/lib-dynload/pyexpat.so
7fa025aeb000-7fa025cea000 ---p 0000b000 fd:00 534283	/usr/lib64/python2.6/lib-dynload/pyexpat.so
7fa025cea000-7fa025cec000 rw-p 0000a000 fd:00 534283	/usr/lib64/python2.6/lib-dynload/pyexpat.so
7fa025cec000-7fa025d2b000 r-xp 00000000 fd:00 1966146	/lib64/libdbus-1.so.3.4.0
7fa025d2b000-7fa025f2b000 ---p 0003f000 fd:00 1966146	/lib64/libdbus-1.so.3.4.0
7fa025f2b000-7fa025f2c000 r--p 0003f000 fd:00 1966146	/lib64/libdbus-1.so.3.4.0
[...]	
[...]	
7f361084e000-7f3610852000 rw-p 00000000 00:00 0	

```

7f3610852000-7f36109c2000 r-xp 00000000 fd:00 533997 /usr/lib64/libpython2.6.so.1.0
7f36109c2000-7f3610bc1000 ---p 00170000 fd:00 533997 /usr/lib64/libpython2.6.so.1.0
7f3610bc1000-7f3610bfd000 rw-p 0016f000 fd:00 533997 /usr/lib64/libpython2.6.so.1.0
7f3610bfd000-7f3610c0b000 rw-p 00000000 00:00 0
7f3610c0b000-7f3610e2b000 r-xp 00000000 fd:00 1978819 /lib64/ld-2.12.so
7f3610e2b000-7f3610d5b000 rw-p 00000000 00:00 0
7f3610d5b000-7f3610d6d000 r--p 00000000 fd:00 543627 /usr/share/locale/es/LC_MESSAGES/rpm.mo
7f3610d6d000-7f3610d8b000 r--p 00000000 fd:00 527743 /usr/share/locale/es/LC_MESSAGES/libc.mo
7f3610d8b000-7f3610e13000 rw-p 00000000 00:00 0
7f3610e13000-7f3610e19000 rw-s 00000000 fd:00 786548 /var/lib/rpm/__db.001
7f3610e19000-7f3610e1f000 rw-s 00000000 fd:00 786548 /var/lib/rpm/__db.001
7f3610e1f000-7f3610e22000 rw-p 00000000 00:00 0
7f3610e22000-7f3610e29000 r--s 00000000 fd:00 528025 /usr/lib64/gconv/gconv-modules.cache
7f3610e29000-7f3610e2a000 rw-p 00000000 00:00 0
7f3610e2a000-7f3610e2b000 r--p 0001f000 fd:00 1978819 /lib64/ld-2.12.so
7f3610e2b000-7f3610e2c000 rw-p 00020000 fd:00 1978819 /lib64/ld-2.12.so
7f3610e2c000-7f3610e2d000 rw-p 00000000 00:00 0
7fff9f78000-7fff9fa1000 rw-p 00000000 00:00 0 [stack]
7fff9f9f000-7fff9fa0000 r-xp 00000000 00:00 0 [vdso]
ffffffffff600000-ffffffffff601000 r-xp 00000000 00:00 0 [vsyscall]

```

reason

Process /usr/bin/python was killed by signal 11 (SIGSEGV)

***In addition, after configuring with YAIM the first time, the next services are not running and I have to restart them manually:**

glite-lb-notif-interlogd not running

glite-lb-bkserverd not running

glite-jp-importer not running

glite-lb-interlogd not running

Then, viewing the status of the gLite service we get this:

```
[root@cg01 ~]# service gLite status
```

```
*** glite-lb-locallogger:
```

```
glite-lb-logd running as 31651
```

```
glite-lb-interlogd running as 31651
```

The **glite-lb-bkserverd** doesn't show its status. If I check the *“/etc/gLiteservices*

” file, it only shows “/etc/init.d/glite-lb-locallogger” (it must show in addition “/etc/init.d/glite-lb-bkserverd”):

```
[root@cg01 ~]# cat /etc/gLiteservices  
/etc/init.d/glite-lb-locallogger
```

So there must be a problem with configuration phase.

Now if I check glite-lb-bkserverd manually:

```
[root@cg01 ~]# /etc/rc.d/init.d/glite-lb-bkserverd status  
glite-lb-notif-interlogd not running (stale pidfile)  
glite-lb-interlogd for proxy running as 30645  
glite-lb-bkserverd running as 30512  
glite-jp-importer not running (disabled)
```

We can see that **glite-lb-notif-interlogd** is not running, and if I try to restart it manually it keeps not running.

So I reconfigure again and I get this:

```
[root@cg01 config]# /etc/init.d/gLite status  
*** glite-lb-locallogger:  
glite-lb-logd running as 1968  
glite-lb-interlogd running as 1968
```

```
[root@cg01 config]# /etc/init.d/glite-lb-bkserverd status  
glite-lb-notif-interlogd running as 1756  
glite-lb-interlogd for proxy not running (stale pidfile)  
glite-lb-bkserverd running as 1675  
glite-jp-importer not running (disabled)
```

And then I restart the services:

```
[root@cg01 config]# /etc/init.d/glite-lb-bkserverd restart  
Stopping glite-lb-notif-interlogd (1756) ... done  
Stopping glite-lb-bkserverd (1675) ... done  
glite-jp-importer not running  
Stopping glite-lb-interlogd (1827) .../etc/init.d/glite-lb-bkserverd: línea 104: kill: (1827) - No existe el proceso  
done  
Starting glite-lb-bkserver ... done  
Starting glite-lb-notif-interlogd ... done
```

```
Starting glite-lb-interlog for proxy ... done
[root@cg01 config]# /etc/init.d/glite-lb-bkserverd status
glite-lb-notif-interlogd running as 4762
glite-lb-interlogd for proxy running as 4819
glite-lb-bkserverd running as 4686
glite-jp-importer not running (disabled)
```

Finally, all the services are running but the “gLite status” command keeps showing/managing only the **glite-lb-locallogger** service.

*As it was reported in SL5 LB release, the *glite-lb-statistics* command fails when we use it:

```
[root@cg07 ~]# glite-lb-statistics
lb_statistics: can't load L&B plugin (glite_lb_plugin.so: cannot open shared object file: No such file or directory)
```

*There are also some *segfault* issues in */var/log/messages* related to *fetch-crl*:

```
Jun 18 12:46:28 cg01 kernel: fetch-crl[1211]: segfault at 4bf96ea ip 0000003a95a753b5 sp 00007fff38f50bd0 error 4 in libc-2.12.so[3a95a00000+186000]
```

*There are problems with *globus-gssapi-gsi-10.6-1.el6.x86_64* package version.

*Apart from these issues, new features such as extending messaging capabilities or finalized CREAM support, were manually checked.

*The complete testsuite (executing *org.glite.testsuites.ctb/LB/tests/lb-run-tests.sh*) was executed and all the tests passed.

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 crashing errors during installation with yum
- Review services/daemons problems after configuring with yaim
- Review statistics problem
- Review fetch-crl segfault errors