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

Name of the component	LB		
Release	EMI.lb.sl5.x86_64-3.2.6	RT Ticket	3896
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@ifi
			c.uv.es
V. Hours Worked	20h		
Component status	VERIFIED	Date	13 th June, 2012
Verification start date	7 th June, 2012	Verification end date	13 th June, 2012

Summary:

This *EMI-2 LB 3.2.6* release for SL5 was successfully upgraded (EMI-1 repositories had to be updated with EMI-2 ones) and reconfigured from a previous *EMI-1 LB 3.1.0* version.

New features and bug fixes were successfully tested an checked. Although there are some problems when using *glite-lb-statistics* command.

The product works as expected 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.

The documentation is updated with the new features information.

There is a complete test suite for the product.

The overall qualification of the verification phase is good.

GGUS Tickets:

	Generic Quality Criteria Total (Critical/Non critical)				
	Passed	Not passed	Not Applicable	Total	
ТР	1			1	
VLD	17		4	21	
	Specific Quality Criteria				

Summary of Quality Criteria verification:

ТР			
VLD	3	2	5

Quality Criteria verification cheatsheet:

DOCUMENTATION QC

GENERIC_DOC_1 (Functional Description)	Y	VLD	Successfully updated in 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-matterhom-products/-/asset_publisher/B4Rk/content/I%26b-1
GENERIC_DOC_3 (User Documentation)	Y		http://egee.cesnet.cz/cvsweb/LB/LBUG.pdf
	NA		Minor release, this QC was already verified.
GENERIC_DOC_5 (API Documentation)	Y	VLD	http://egee.cesnet.cz/cvsweb/LB/LBDG.pdf
GENERIC_DOC_6 (Administrator Documentation)	Y		http://egee.cesnet.cz/cvsweb/LB/LBAG.pdf
GENERIC_DOC_7 (Service Reference Card)	Y	VLD	https://twiki.cem.ch/twiki/bin/view/EMI/LBServiceReferenceCard
GENERIC_DOC_8 (Software License)	Y		http://www.apache.org/licenses/LICENSE-2.0.html
GENERIC_DOC_9 (Release changes testing)	Y	TP	Reported in https://twiki.cem.ch/twiki/bin/view/EGEE/TestReportForLBEMI2FinalRC
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)	Y	VLD	Checked with "/etc/init.d/gLite status"
	Y		Log located in "/var/log/messages"
GENERIC_SERVICE_3 (Service Reliability)	NA		Minor release, this QC was already verified.
GENERIC_SERVICE_4 (Service Robustness)	NA		Minor release, this QC was already verified.
GENERIC_SERVICE_5 (Automatic Configuration)			YAIM configuration tool works fine
GENERIC_SERVICE_6 (Default Password Configuration)	Y	VLD	
SECURITY QC			
GENERIC_SEC_1 (World Writable Files)		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			
	NA		Minor release, this QC was already verified.
AUTHENTICATION QC			
AUTHN_IFACE_1 (X.509 Certificate support)	NA		Minor release, this QC was already verified.
MONITORING PROBES QC			
	NA		Minor release, this QC was already verified.
	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)		VLD	
CLIENT_TOOLS_2 (Error Messages)	Y	VLD	

Validator comments:

Validation went through without any error or fail, excepting *glite-lb-statistics* command. When we try to use it we get this:

[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)

This file should be present with *glite-lb-state-machine* package (we have latest version glite-lb-state-machine 1.3.2), but if this package doesn't include it:

[root@cg07~]# rpm -ql glite-lb-state-machine /usr/lib64/glite_lb_plugin.so.0 /usr/lib64/glite_lb_plugin.so.0.0.0 /usr/lib64/libglite_lb_statemachine.so.1 /usr/lib64/libglite_lb_statemachine.so.1.3.2

And if we test the *lb-test-statistics.sh* testsuite we get errors:

[glite@cg07 tests]\$./lb-test-statistics.sh Jun 13 11:28:13 cg07.ific.uv.es lb-test-statistics.sh: Testing if all binaries are available Testing credentials Test jobs registered. Sleeping for 10 seconds Sending events for all test jobs, Submitted => Running done Sleeping for 10 seconds Sending events for all test jobs, Running => Done done	start done done done
Sleeping for 10 seconds Getting job rate (should be around .0166666, testing if > 0): edg_wll_StateRate(): Operation not (standard_in) 1: parse error ./lb-test-statistics.sh: line 197: [: : integer expression expected -TE.	t permitted, (nil) ST FAILED-
<i>Error:</i> Rate other than expected Getting average 'Submitted' -> 'Running' transfer time (should be a number > 10): edg_wll_StateRate(): Operation not per (standard_in) 1: parse error	mitted, (nil)
Error: Average value other than expected	ST FAILED-
Getting the dispersion index (should be a number >= 0): (standard_in) 1: parse error ./lb-test-statistics.sh: line 220: [: : integer expression expected Error: Dispersion index value other than expected -TE.	ST FAILED-
Getting average 'Submitted' -> 'Done/OK' transfer time (should be a number > 20): edg_wll_StateRate(): Operation not per (standard_in) 1: parse error ./lb-test-statistics.sh: line 235: [: : integer expression expected	ermitted, (nil)
-TE. Error: Average value other than expected Comparing. 'Submitted' -> 'Running' should take longer than 'Submitted' -> 'Done/OK': (standard_in) 1: parse error	ST FAILED-
Error: Done earlier than Running	ST FAILED-
Long term (Regression into bug #73716): Getting average 'Submitted' -> 'Running' transfer times (should be numbers >= (Operation not permitted, (nil)	
Long term: Getting average 'Running' rates (should be numbers >= 0):edg_wll_StateRate(): Operation not permitted, (nil) Purging test job (Trying the best, result will not be tested) Error running the edg_wll_Purge(). Operation not permitted (only superusers may purge) The jobs were not dumped.	
Jun 13 11:28:56 cg07.ific.uv.es lb-test-statistics.sh:	end

Apart from this issue, new features such as extending messaging capabilities or finalized CREAM support, were manually checked.

Here is some extra information and logging about the tested bug fixes (other bug fixes in this release relative to code errors were certified by TP):

-bug #45971: Missing support for logging RUNNING -> IDLE CREAM job status changes.

Tested with *lb-test-cream.sh* script (it shows some "test failed" but probably due to the script code):

[glite@cg07 tests]\$./lb-test-cream.sh	
Jun 11 16:35:36 cg07.ific.uv.es lb-test-cream.sh:	start
Testing if all binaries are available	done
Testing credentials	done
Testing job sumbitted directly to CREAM-CE	
Registering testing job	done
Jobid: (https://cg07.ific.uv.es/CREAM-test-1339425337)	
Testing job is in state: Submitted Registered (should be Submitted Registered) done	
logging Accepted	done
Testing job is in state: Submitted Registered (should be Submitted Registered) done	
logging CREAMStatus Pending	done
Testing job is in state: Waiting Pending (should be Waiting Pending)	done
logging CREAMStatus Idle	done
Testing job is in state: Scheduled Idle (should be Scheduled Idle)	done
logging CREAMStatus Running	done
Testing job is in state: Running Running (should be Running Running) done	
logging CREAMStatus Really-running	done
Testing job is in state: Running Really-running (should be Running Really-running) done	
logging CREAMStatus Done-ok	done
Testing job is in state: Done Done-ok (should be Done Done-ok)	done
Purging test job (Trying the best, result will not be tested)	
Error running the edg_wll_Purge().	
Operation not permitted (only superusers may purge)	
The jobs were not dumped.	
Testing job submitted to CREAM-CE via WMS	done
(https://cg07.ific.uv.es:9000/FY6stMtfkCej7VHmHOVnYA)	
Testing job is in state: Submitted (should be Submitted)	done
logging Accepted	
logging DeQueued	
logging HelperCall	
logging Match	

	done
Testing job is in state: Waiting (should be Waiting)	done
logging CREAMAccepted	done
Testing job is in state: Waiting (should be Waiting)	done
logging CREAMStore CmdStart	done
Testing job is in state: Waiting (should be Waiting Pending) FAILED-	-TES
Error: Job is not in appropriate state	
logging CREAMStatus Pending	done
Testing job is in state: Waiting (should be Waiting Pending) FAILED-	-TES
Error: Job is not in appropriate state	
logging EnQueuedSetLoggingJob(https://cg07.ific.uv.es:9000/FY6stMtfkCej7VHmHOVnYA,no (edg_wll_SetSequenceCode(): syntax error in sequence code)	o_seqcodes_with_CREAM): Invalid argument
	-TEST FAILED-
Testing job is in state: Waiting (should be Ready Pending) FAILED-	-TEST
Error: Job is not in appropriate state	
logging DeQueuedSIDX 1 5	
SetLoggingJob(https://cg07.ific.uv.es:9000/FY6stMtfkCej7VHmHOVnYA,-s): Invalid argument sequence code)	t (edg_wll_SetSequenceCode(): syntax error in
	-TEST FAILED-
Testing job is in state: Waiting (should be Ready Pending) FAILED-	-TES7
Error: Job is not in appropriate state	
logging TransferSIDX 1 5	
SetLoggingJob(https://cg07.ific.uv.es:9000/FY6stMtfkCej7VHmHOVnYA,-s): Invalid argument sequence code)	t (edg_wll_SetSequenceCode(): syntax error in
	-TEST FAILED-
Testing job is in state: Waiting (should be Ready Pending) FAILED-	-TES
Error: Job is not in appropriate state	
logging CREAMStatus IdleSIDX 1 5	
glite-lb-logevent: edg_wll_LogEvent*(): Invalid argument (edg_wll_LogEvent():	
Invalid argument;; Logging library ERROR:	
Invalid argument;; edg_wll_DoLogEvent(): Error code mapped to EINVAL	
Message incomplete;; edg_wll_log_read(): answer read from locallogger)	
	done
Testing job is in state: Waiting (should be Scheduled Idle) FAILED-	-TEST
Error: Job is not in appropriate state	
logging CREAMStatus Running	done
Testing job is in state: Waiting (should be Running Running) FAILED-	-TES
Error: Joh is not in appropriate state	
Error: Job is not in appropriate state	

Testing job is in state: Waiting (should be Running Running) FAILED-	-TEST
Error: Job is not in appropriate state	
testing if job is suspended (bug #45971)	-TEST FAILED-
logging CREAMStatus Idle (bug #45971)	done
Testing job is in state: Waiting (should be Scheduled Idle) FAILED-	-TEST
Error: Job is not in appropriate state	
testing if job is suspended (bug #45971)	done
logging CREAMStatus Running (bug #45971)	done
Testing job is in state: Waiting (should be Running Running) FAILED-	-TEST
Error: Job is not in appropriate state	
testing if job is suspended (bug #45971)	done
logging CREAMStatus Really-running	done
Testing job is in state: Waiting (should be Running Really-running) -TEST FAILED-	
Error: Job is not in appropriate state	
logging CREAMStatus Done-ok	done
Testing job is in state: Waiting (should be Done Done-ok) FAILED-	-TEST
Error: Job is not in appropriate state	
logging DoneSetLoggingJob(https://cg07.ific.uv.es:9000/FY6stMtfkCej7VHmHOVnYA,no_seqcodes_with_CREAM): Invalid argu (edg_wll_SetSequenceCode(): syntax error in sequence code)	ument
-TEST FAIL	ED-
Testing job is in state: Waiting (should be Done Done-ok) FAILED-	-TEST
Error: Job is not in appropriate state	
logging ClearSIDX 1 5	
SetLoggingJob(https://cg07.ific.uv.es:9000/FY6stMtfkCej7VHmHOVnYA,-s): Invalid argument (edg_wll_SetSequenceCode(): syn sequence code)	ntax error in
-TEST FAIL	ED-
Testing job is in state: Waiting (should be Cleared Done-ok) FAILED-	-TEST
Error: Job is not in appropriate state	
Purging test job (Trying the best, result will not be tested)	
Error running the edg_wll_Purge().	
Operation not permitted (only superusers may purge)	
The jobs were not dumped.	
Jun 11 16:36:29 cg07.ific.uv.es lb-test-cream.sh:	end

-bug #47774: unnecessary LB indexed query limitations.

[glite@cg07 tests]\$./lb-test-collections.sh

Jun 11 13:31:23 cg07.ific.uv.es lb-test-collections.sh: start

Testing if all binaries are available done

Testing credentials

 $Registering \ testing \ collection \ (https://cg07.ific.uv.es:9000/3S9E53X_TgBG8vbbxvNH-g) \ done$

Request children with only the parent ID (Regression into bug #47774)... 5 returned done

Purging test job (Trying the best, result will not be tested)

Error running the edg_wll_Purge().

Operation not permitted (only superusers may purge)

The jobs were not dumped.

Jun 11 13:31:24 cg07.ific.uv.es lb-test-collections.sh: end

-bug #86772: glite-lb-notify drop does not report error on malformatted notifIDs.

done

[glite@cg07 tests]\$./lb-test-notif.sh Jun 11 15:17:54 cg07.ific.uv.es lb-test-notif.sh: start Testing if all binaries are available done done Testing credentials Registering testing job (https://cg07.ific.uv.es:9000/fuR2vihdXPoyz7kpjvdWsQ) done Registering notification (https://cg07.ific.uv.es:9000/NOTIF:InOO0yPX4fGxYEHjwp1ixw) done Logging events resulting in DONE state notification is valid until: '2012-06-11 14:17:55 UTC' (1339424275) Receiving notifications Notifications were delivered done Trying to drop invalid NotifID (Regression into bug #86772)... EINVAL done Dropping the test notification (https://cg07.ific.uv.es:9000/NOTIF:InOO0yPX4fGxYEHjwp1ixw) done Purging test job (Trying the best, result will not be tested) Error running the edg_wll_Purge(). Operation not permitted (only superusers may purge) The jobs were not dumped. Jun 11 15:17:57 cg07.ific.uv.es lb-test-notif.sh:

-bug #92708: logd: confirmation socket handling completely broken.

[glite@cg07 tests]\$./lb-test-il-recovery.sh

Jun 11 15:22:26 cg07.ific.uv.es lb-test-il-recovery.sh: start Testing if all binaries are available done Testing credentials Registering testing job (https://cg07.ific.uv.es:9000/sEIvj8mIKN7TMyf87D5CqA) done Getting No. of sockets (user glite) for a later test... 5 done Info: No command to stop was given Generating events resulting in CLEARED state Info: No command to start was given Sleeping for 70 seconds (waiting for interlogger to notice and deliver events)... Testing job (https://cg07.ific.uv.es:9000/sEIvj8mIKN7TMyf87D5CqA) is in state: Cleared Getting No. of sockets (regression into Savannah Bug #92708)... 5 done Srv. version 2.3 >= 2.3? yes Comparing No. of sockets... OK, less or equal done Purging test job (Trying the best, result will not be tested) Error running the edg_wll_Purge(). Operation not permitted (only superusers may purge)

The jobs were not dumped.

Jun 11 15:23:37 cg07.ific.uv.es lb-test-il-recovery.sh:

-bug #92766: L&B server crashes on certain ACLs.

[glite@cg07 tests]\$./lb-test-changeacl.sh

Jun 11 16:40:42 cg07.ific.uv.es lb-test-changeacl.sh: start

Testing if all binaries are available done

Testing credentials

Srv. version 2.3 >= 2.2? yes done

Srv. version 2.3 >= 2.3? yes Multiple identities will be tested: Regression into Savannah Bug #92766... done

Testing Tags permissions... done

 $Registering \ testing \ job \ https://cg07.ific.uv.es:9000/t84WFqUMW--Cdnt927BTbw \ done$

Changing ACL ...

done

done

done

done

Checking ACL for new values... done

Removing ACL entries... done

Purging test job (Trying the best, result will not be tested)

Error running the edg_wll_Purge().

Operation not permitted (only superusers may purge)

The jobs were not dumped.

Jun 11 16:40:44 cg07.ific.uv.es lb-test-changeacl.sh: end

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 statistics problem