

Table of Contents

Certification Report For Patch 3020.....	1
Software installed.....	1
cert-glite-LFC_mysql (SL5, 64bit).....	1
glite-SE_dpm_mysql (SL4, 32bit) and cert-glite-SE_dpm_mysql (SL5, 64bit).....	1
cert-glite-UI (SL5, 64bit).....	2
cert-glite-WN (SL5, 64bit).....	2
glite-UI (SL4, 32bit, production client used).....	3
Information system check.....	3
Tests passed.....	4
LFC Testsuite.....	4
LCG_UTILS testsuite results.....	6
Regression tests passed.....	6

Certification Report For Patch 3020

Software installed

cert-glite-LFC_mysql (SL5, 64bit)

Package	Arch	Version	Repository
Installing:			
cert-glite-LFC_mysql	x86_64	3.2.0-0	LFC
Installing for dependencies:			
LFC-client	x86_64	1.7.2-5sec.sl5	LFC
LFC-interfaces	x86_64	1.7.2-5sec.sl5	LFC
LFC-interfaces2	x86_64	1.7.2-5sec.sl5	LFC
LFC-server-mysql	x86_64	1.7.2-5sec.sl5	LFC
bdii	noarch	5.0.0-22	LFC
edg-mkgridmap	noarch	3.0.0-1	LFC
fetch-crl	noarch	2.7.0-2	LFC
glite-info-generic	noarch	2.0.2-3	LFC
glite-info-provider-release	noarch	1.0.0-5	LFC
glite-info-templates	noarch	1.0.0-8	LFC
glite-security-voms-api	x86_64	1.8.12-1.sl5	LFC
glite-security-voms-api-cpp	x86_64	1.8.12-1.sl5	LFC
glite-version	x86_64	3.2.0-0.sl5	LFC
glite-yaim-core	noarch	4.0.8-7	LFC
glite-yaim-lfc	noarch	4.0.3-1	LFC
glue-schema	noarch	1.3.0-5	LFC
gpt	x86_64	3.2autotools2004_NMI_9.0_x86_64_rhap_5-1	LFC
lcg-dm-common	x86_64	1.7.2-5sec.sl5	LFC
mysql-server	x86_64	5.0.45-7.el5	LFC
vdt_globus_essentials	x86_64	VDT1.10.1x86_64_rhap_5-3	LFC

glite-SE_dpm_mysql (SL4, 32bit) and cert-glite-SE_dpm_mysql (SL5, 64bit)

Installed to be able to check the lcg_utils LFC related functionality using the DM testsuite

Package	Arch	Version	Repository	S
Installing:				
cert-glite-SE_dpm_mysql	x86_64	3.2.0-0	DPM	4.
Installing for dependencies:				
CGSI_gSOAP_2.7	x86_64	1.3.3-1.sl5	DPM	6
CGSI_gSOAP_2.7-voms	x86_64	1.3.3-1.sl5	DPM	16
DPM-DSI	x86_64	1.7.1-2sec.sl5	DPM	4
DPM-client	x86_64	1.7.2-5sec.sl5	DPM	5.
DPM-copy-server-mysql	x86_64	1.7.2-5sec.sl5	DPM	56
DPM-httpd	noarch	1.2.1-2sec.sl5	DPM	8.
DPM-httpd-cgi	x86_64	1.3.1-2sec.sl5	DPM	1
DPM-httpd-client	noarch	1.2.1-2sec.sl5	DPM	4.
DPM-interfaces	x86_64	1.7.2-5sec.sl5	DPM	76
DPM-interfaces2	x86_64	1.7.2-5sec.sl5	DPM	28
DPM-name-server-mysql	x86_64	1.7.2-5sec.sl5	DPM	35
DPM-rfio-server	x86_64	1.7.2-5sec.sl5	DPM	22

CertificationReportFor3020 < EGEE < TWiki

DPM-server-mysql	x86_64	1.7.2-5sec.s15	DPM	47
DPM-srm-server-mysql	x86_64	1.7.2-5sec.s15	DPM	1.
DPM-xrootd	x86_64	2.0.3-1sec.s15	DPM	11
bdi	noarch	5.0.0-22	DPM	1
edg-mkgridmap	noarch	3.0.0-1	DPM	3
fetch-crl	noarch	2.7.0-2	DPM	2
glite-info-generic	noarch	2.0.2-3	DPM	5.
glite-info-provider-release	noarch	1.0.0-5	DPM	2.
glite-info-provider-service	noarch	1.1.5-0	DPM	2
glite-info-templates	noarch	1.0.0-8	DPM	8.
glite-security-voms-api	x86_64	1.8.12-1.s15	DPM	1
glite-security-voms-api-cpp	x86_64	1.8.12-1.s15	DPM	4.
glite-version	x86_64	3.2.0-0.s15	DPM	2.
glite-yaim-core	noarch	4.0.8-7	DPM	11
glite-yaim-dpm	noarch	4.0.6-1	DPM	2
glue-schema	noarch	1.3.0-5	DPM	3
gpt	x86_64	3.2autotools2004_NMI_9.0_x86_64_rhap_5-1	DPM	88
gridsite-apache	x86_64	1.5.10-1.s15	DPM	10
gridsite-shared	x86_64	1.5.10-1.s15	DPM	51
gridview-wsclient-common	noarch	1.1.1-1	DPM	7.
gridview-wsclient-gridftp	noarch	1.1.0-2	DPM	1
lcg-dm-common	x86_64	1.7.2-5sec.s15	DPM	8
lcg-expiregridmapdir	noarch	2.0.0-1	DPM	5.
lcg-service-proxy	noarch	1.0.3-2	DPM	2.
mod_dpmpu	x86_64	1.2.1-1sec.s15	DPM	1
mod_keyauth	x86_64	1.2.1-1sec.s15	DPM	2
mysql-server	x86_64	5.0.45-7.e15	DPM	9.
vdt_globus_data_server	x86_64	VDT1.10.1x86_64_rhap_5-3	DPM	49
vdt_globus_essentials	x86_64	VDT1.10.1x86_64_rhap_5-3	DPM	1

cert-glite-UI (SL5, 64bit)

Package	Arch	Version	Repository	Size
Installing:				
cert-glite-UI	x86_64	3.2.0-0	LFC-PATCH	5.4 k
Updating:				
LFC-client	i386	1.7.2-5sec.s15	LFC-PATCH	2.0 M
LFC-client	x86_64	1.7.2-5sec.s15	LFC-PATCH	2.1 M
LFC-interfaces	i386	1.7.2-5sec.s15	LFC-PATCH	784 k
LFC-interfaces	x86_64	1.7.2-5sec.s15	LFC-PATCH	849 k
glite-yaim-core	noarch	4.0.8-7	LFC-PATCH	116 k
lcg-dm-common	x86_64	1.7.2-5sec.s15	LFC-PATCH	82 k
lcg-dm-common	i386	1.7.2-5sec.s15	LFC-PATCH	79 k
Installing for dependencies:				
LFC-interfaces2	x86_64	1.7.2-5sec.s15	LFC-PATCH	495 k

cert-glite-WN (SL5, 64bit)

Package	Arch	Version	Repository	Size
Installing:				
cert-glite-WN	x86_64	3.2.0-0	LFC-PATCH	4.2 k
Updating:				

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LFC-client	x86_64	1.7.2-5sec.s15	LFC-PATCH	2.1 M
LFC-client	i386	1.7.2-5sec.s15	LFC-PATCH	2.0 M
LFC-interfaces	x86_64	1.7.2-5sec.s15	LFC-PATCH	849 k
LFC-interfaces	i386	1.7.2-5sec.s15	LFC-PATCH	784 k
glite-yaim-core	noarch	4.0.8-7	LFC-PATCH	116 k
lcg-dm-common	x86_64	1.7.2-5sec.s15	LFC-PATCH	82 k
lcg-dm-common	i386	1.7.2-5sec.s15	LFC-PATCH	79 k

Installing for dependencies:

LFC-interfaces2	x86_64	1.7.2-5sec.s15	LFC-PATCH	495 k
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glite-UI (SL4, 32bit, production client used)

Production packages only.

Information system check

Two VO configured on the LFC server ("test" and "org.glite.voms-test").

Both the LFC service and the data location interface were published in the information system and reached the top level BDII as expected:

```
# ctb-generic-69.cern.ch, SITE-1, local, grid
dn: GlueServiceUniqueID=ctb-generic-69.cern.ch,Mds-Vo-name=SITE-1,Mds-Vo-name=
local,o=grid
GlueServiceStatus: OK
GlueServiceStatusInfo: No Problems
objectClass: GlueTop
objectClass: GlueService
GlueServiceUniqueID: ctb-generic-69.cern.ch
GlueServiceAccessControlRule: test
GlueServiceAccessControlRule: org.glite.voms-test
GlueServiceEndpoint: ctb-generic-69.cern.ch
GlueServiceVersion: 1.7.2
GlueServiceName: SITE-1-lfc
GlueServiceType: lcg-file-catalog
GlueServiceWSDL: unset
GlueServiceSemantics: unset
GlueForeignKey: GlueSiteUniqueID=SITE-1
GlueServiceOwner: test
GlueServiceOwner: org.glite.voms-test
GlueServiceAccessPointURL: ctb-generic-69.cern.ch
GlueServiceURI: ctb-generic-69.cern.ch
```

```
# http://ctb-generic-69.cern.ch:8085/, SITE-1, local, grid
dn: GlueServiceUniqueID=http://ctb-generic-69.cern.ch:8085/,Mds-Vo-name=SITE-1
,Mds-Vo-name=local,o=grid
GlueServiceStatus: OK
GlueServiceStatusInfo: No Problems
objectClass: GlueTop
objectClass: GlueService
GlueServiceUniqueID: http://ctb-generic-69.cern.ch:8085/
GlueServiceAccessControlRule: test
GlueServiceAccessControlRule: org.glite.voms-test
GlueServiceEndpoint: http://ctb-generic-69.cern.ch:8085/
GlueServiceVersion: 1.7.2
GlueServiceName: SITE-1-lfc-dli
GlueServiceType: data-location-interface
GlueServiceWSDL: unset
GlueServiceSemantics: unset
GlueForeignKey: GlueSiteUniqueID=SITE-1
```

```
GlueServiceOwner: test
GlueServiceOwner: org.glite.voms-test
GlueServiceAccessPointURL: http://ctb-generic-69.cern.ch:8085/
GlueServiceURI: http://ctb-generic-69.cern.ch:8085/
```

Tests passed

LFC Testsuite

Run on the

- 32-bit SL4 production WN
- 64-bit SL5 production WN
- 64-bit SL5 production UI
- 64-bit SL5 patched WN
- 64-bit SL5 patched UI

The list of tests is below.

stat and statg tests originally failed on SL5 because of the newer version of SWIG used to generate the wrapper library.

The problem is that these tests use an undocumented auto generated python code which is no longer available. These are not documented and not supported so this is not considered a problem.

This is the problematic fragment of code:

```
stat=lfc.lfc_filestat()
statPtr=lfc.lfc_filestatPtr(stat)
ret=lfc.lfc_stat("/",statPtr)

Traceback (most recent call last):
  File "./LFC-stat", line 101, in ?
    ret = lfc_stat_test().run()
  File "./LFC-stat", line 66, in run
    ret1 = self.compare(self.test(), (self.ret(),0))
  File "./LFC-stat", line 14, in test
    statPtr=lfc.lfc_filestatPtr(stat)
AttributeError: 'module' object has no attribute 'lfc_filestatPtr'
```

This fragment, changed to:

```
stat=lfc.lfc_filestat()
ret=lfc.lfc_stat("/",stat)
```

solves the problem (works with both the new and old clients).

This is also the way lfc_stat is supposed to be used according to the lfc_python man page.

```
Executing LFC-CLI-dchmod
LFC-CLI-dchmod PASSED
Executing LFC-cli-delcom
LFC-cli-delcom PASSED
Executing LFC-CLI-dren
LFC-CLI-dren PASSED
Executing LFC-CLI-fchmod
LFC-CLI-fchmod PASSED
Executing LFC-CLI-fren
```

Information system check

```

LFC-CLI-fren PASSED
Executing LFC-cli-getacl
LFC-cli-getacl PASSED
Executing LFC-cli-ln
LFC-cli-ln PASSED
Executing LFC-cli-mkdir
LFC-cli-mkdir PASSED
Executing LFC-CLI-mkdir
LFC-CLI-mkdir PASSED
Executing LFC-cli-ping
LFC-cli-ping PASSED
Executing LFC-cli-rename
LFC-cli-rename PASSED
Executing LFC-cli-rmdir
LFC-cli-rmdir PASSED
Executing LFC-CLI-rmdir
LFC-CLI-rmdir PASSED
Executing LFC-CLI-rmfile
LFC-CLI-rmfile PASSED
Executing LFC-cli-setacl
LFC-cli-setacl PASSED
Executing LFC-cli-setcom
LFC-cli-setcom PASSED
*Running API_PYTHON test set*
Executing LFC-addreplica
LFC-addreplica PASSED
Executing LFC-addreplicax
LFC-addreplicax PASSED
Executing LFC-chdir
LFC-chdir PASSED
Executing LFC-creatg
LFC-creatg PASSED
Executing LFC-del
LFC-del PASSED
Executing LFC-delcomment
LFC-delcomment PASSED
Executing LFC-fsize
LFC-fsize PASSED
Executing LFC-getacl
LFC-getacl PASSED
Executing LFC-getcwd
LFC-getcwd PASSED
Executing LFC-getreplica
LFC-getreplica PASSED
Executing LFC-getreplicas
LFC-getreplicas FAILED
Executing LFC-ls
LFC-ls PASSED
Executing LFC-mkdir
LFC-mkdir PASSED
Executing LFC-mkdirg
LFC-mkdirg PASSED
Executing LFC-opendir
LFC-opendir PASSED
Executing LFC-opendirg
LFC-opendirg PASSED
Executing LFC-rename
LFC-rename PASSED
Executing LFC-rmdir
LFC-rmdir PASSED
Executing LFC-setacl
LFC-setacl PASSED
Executing LFC-setatime
LFC-setatime PASSED
Executing LFC-setcomment
LFC-setcomment PASSED
Executing LFC-setfsizeg

```

```
LFC-setfilesize PASSED
Executing LFC-stat
LFC-stat PASSED
Executing LFC-statg
LFC-statg PASSED
Executing LFC-statr
LFC-statr PASSED
Executing LFC-statx
LFC-statx PASSED
Executing LFC-undelete
LFC-undelete PASSED
Executing LFC-unlink
LFC-unlink PASSED
Executing LFC-writefile
LFC-writefile PASSED
```

getreplicas failure:

```
./LFC-getreplicas ctb-generic-69.cern.ch
Start test: get the replica entries associated with a list of GUIDs (lfc_getreplicas)
1. Prepare environment
2. Start test run()
Test OK: [OK]
Test SE filter: [OK]
Test guid length exceeds CA_MAXGUIDLEN (EINVAL) (bug): [FAILED]
Test SE name length exceeds CA_MAXNAMELEN (EINVAL): [OK]
Test existing replica nonexistent file (ENOENT) (bug): [FAILED]
3. Ret test code: False
Exit
```

LCG_UTILS testsuite results

Run on the:

- SL5 UI (patched and non-patched)
- SL5 WN (patched)
- SL4 UI (production)

```
*Running LCG_UTILS test set*
Executing DM-lcg-alias.sh
DM-lcg-alias.sh PASSED
Executing DM-lcg-cp-gsiftp.sh
DM-lcg-cp-gsiftp.sh PASSED
Executing DM-lcg-cp.sh
DM-lcg-cp.sh PASSED
Executing DM-lcg-cr-gsiftp.sh
DM-lcg-cr-gsiftp.sh PASSED
Executing DM-lcg-cr.sh
DM-lcg-cr.sh PASSED
Executing DM-lcg-list.sh
DM-lcg-list.sh PASSED
Executing DM-lcg-ls.sh
DM-lcg-ls.sh PASSED
Executing DM-lcg-rep.sh
DM-lcg-rep.sh PASSED
Executing DM-lcg-rf.sh
DM-lcg-rf.sh PASSED
```

Regression tests passed

```
[shoo@ctb-ui-1 regression]$ ./regTest.sh --testlist testlists/lfc-trusted.txt
Using file testlists/lfc-trusted.txt for the list of bugs to test.
```

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```
=====  
Starting test for bug 49498  
Checking LFC_TESTHOME existence... .. OK  
Test for bug 49498 OK
```

```
=====  
Starting test for bug 49345  
Checking LFC_TESTHOME existence... .. OK  
Create directory /grid/org.glite.voms-test/bug49345 for rights manipulations ... OK  
Do lfc-chmod using invalid rights field. ... invalid mode: 3333333333  
Failed  
lfc-chmod 3333333333 ${LFC_TESTHOME}/bug49345  
  
Remove test directory /grid/org.glite.voms-test/bug49345 ... OK  
Test for bug 49345 OK
```

```
=====  
2 tests executed  
0 tests FAILED  
2 tests are OK
```

```
Tests that are OK:  
 49498 49345  
Overall result is OK
```

-- DimitarShiyachki - 29 Jun 2009

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