

## Quality Criteria Verification Report

Product	EMI.glexec-wn.sl5.x86_64-1.2.2	Release	1.2.2
Software Provider	EMI	RT Ticket	#6746 and #6747
Provider contact	Cristina Aiftimiei <crisrina.aiftimiei@pd.infn.it>		
Verifier	Esteban Freire (esfreire@cesga.es)		
Hours worked	6h	Date	12/03/14
Status	Accepted		

### Summary

No issues found during verification process.

### Related tickets

None

### Documentation Criteria

Document	
Release notes	<a href="http://www.eu-emi.eu/releases/emi-3-monte-bianco/updates/-/asset_publisher/5Na8/content/update-14-03-03-2014-v-3-7-2-1#gLExec_wn_v_1_2_2">http://www.eu-emi.eu/releases/emi-3-monte-bianco/updates/-/asset_publisher/5Na8/content/update-14-03-03-2014-v-3-7-2-1#gLExec_wn_v_1_2_2</a>
User Documentation	<a href="http://www.nikhef.nl/grid/lcaslcmmaps/EMI2_docs/glexec_userguide.pdf">http://www.nikhef.nl/grid/lcaslcmmaps/EMI2_docs/glexec_userguide.pdf</a>
API Documentation	<a href="http://wiki.nikhef.nl/grid/Debugging_hints">http://wiki.nikhef.nl/grid/Debugging_hints</a>
Admin Documentation	<a href="http://www.nikhef.nl/grid/lcaslcmmaps/EMI2_docs/glexec_sysadminguide.pdf">http://www.nikhef.nl/grid/lcaslcmmaps/EMI2_docs/glexec_sysadminguide.pdf</a>
Software License	<a href="http://www.apache.org/licenses/LICENSE-2.0.html">Apache License, version 2.0, http://www.apache.org/licenses/LICENSE-2.0.html</a>

### Generic Criteria

Criteria	Status <sup>1</sup>	Additional Comments
Binary Distribution	OK	
Upgrade	OK	
X.509 Certificate support	OK	
SHA-2 Certificates Support	OK	
RFC Proxy support	OK	
ARGUS Integration	NA	

<sup>1</sup>OK, WARN, FAIL, NA (Not Applicable) or NT (Not Tested)

World Writable Files	NT	Minor release
Passwords in world readable files	NT	Minor release
GlueSchema 1.3 Support	OK	
GlueSchema 2.0 Support	OK	
Middleware Version Information	NT	Minor release
Service Probes	OK	
Accounting Records	NA	
Bug Tracking System	OK	

## Specific QC

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### Basic Functionality Test

== EMI.cream\_torque.sl5\_sl6.x86\_64-2.1.3 ==

\* Used glxec-WN SL5 repo

```

{{{
[root@test14 yum.repos.d]# cat EMI.glexec-wn.sl5.x86_64.repo
# EGI Software Repository - REPO META (releaseId,repositoryId,repofileId) -
(6747,1482,1408)

```

```

[EMI.glexec-wn.sl5.x86_64]
name=EMI.glexec-wn.sl5.x86_64
baseurl=http://admin-repo.egi.eu/sw/unverified/umd-3.emi.glexec-wn.sl5.x86_64/1/2/2/
enabled=1
protect=1
priority=1
gpgcheck=1
gpgkey=http://emisoft.web.cern.ch/emisoft/dist/EMI/3/RPM-GPG-KEY-emi

```

```

}}}
```

\* Used glxec-WN SL6 repo

```

{{{
[root@test14 yum.repos.d]# cat EMI.glexec-wn.sl6.x86_64.repo
# EGI Software Repository - REPO META (releaseId,repositoryId,repofileId) -
(6747,1482,1408)

```

```

[EMI.glexec-wn.sl6.x86_64]
name=EMI.glexec-wn.sl6.x86_64
baseurl=http://admin-repo.egi.eu/sw/unverified/umd-3.emi.glexec-wn.sl6.x86_64/1/2/2/
enabled=1
protect=1
priority=1
gpgcheck=1
gpgkey=http://emisoft.web.cern.ch/emisoft/dist/EMI/3/RPM-GPG-KEY-emi

```

}}}

== Testing cream\_torque on the CreamCE SL5 ==

\* yum update (OK)

{{{

=====

Package Repository	Arch Size	Version
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Installing:

kernel	x86_64	2.6.18-371.4.1.el5
sl-security	22 M	

Updating:

canl-c	x86_64	2.1.3-1.el5
UMD-3-testing	70 k	
canl-java	noarch	1.3.1-1.el5
UMD-3-updates	286 k	
emi-version	x86_64	3.7.2-1.el5
UMD-3-testing	2.3 k	
glexec	x86_64	0.9.11-1.el5
EMI.glexec-wn.sl5.x86_64	92 k	
gnutls	i386	1.4.1-14.el5_10
sl-security	352 k	
gnutls	x86_64	1.4.1-14.el5_10
sl-security	366 k	
gridsite-libs	x86_64	2.2.2-1.el5
UMD-3-testing	132 k	
kernel-headers	x86_64	2.6.18-
371.4.1.el5	sl-security	1.5 M
lcmaps	x86_64	1.6.4-1.el5
EMI.glexec-wn.sl5.x86_64	87 k	
lcmaps-plugins-basic	x86_64	1.6.3-1.el5
EMI.glexec-wn.sl5.x86_64	51 k	
lcmaps-plugins-c-pep	x86_64	1.2.6-1.el5
EMI.glexec-wn.sl5.x86_64	32 k	
lcmaps-plugins-tracking-groupid	x86_64	0.1.2-
1.el5	EMI.glexec-wn.sl5.x86_64	11 k
lcmaps-plugins-verify-proxy	x86_64	1.5.6-
1.el5	EMI.glexec-wn.sl5.x86_64	35 k
lcmaps-plugins-voms	x86_64	1.6.4-1.el5
EMI.glexec-wn.sl5.x86_64	68 k	

libtiff	i386	3.8.2-19.el5_10
sl-security	311 k	
libtiff	x86_64	3.8.2-19.el5_10
sl-security	316 k	
openldap	i386	2.3.43-27.el5_10
sl-security	298 k	
openldap	x86_64	2.3.43-27.el5_10
sl-security	306 k	
openldap-clients	x86_64	2.3.43-
27.el5_10	sl-security	224 k
sudo	x86_64	1.7.2p1-29.el5_10
sl-security	364 k	
tzdata	x86_64	2013i-2.el5
sl-security	771 k	
tzdata-java	x86_64	2013i-2.el5
sl-security	172 k	
Removing:		
kernel	x86_64	2.6.18-308.24.1.el5
installed	98 M	

#### Transaction Summary

```

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```

}}}

\* Reconfiguring with YAIM (OK)

```

{{{
/opt/glite/yaim/bin/yaim -c -s /opt/glite/yaim/etc/site-info.def -n MPI_WN -n WN -n
TORQUE_client -n GLEXEC_wn
}}}

```

== Testing gllex on a WN SL6 ==

\* yum update (OK)

```

{{{
=====
=====
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=====

```

Package	Arch	Version
Repository	Size	

```

=====

```

Installing:

kernel	x86_64	2.6.32-431.5.1.el6
sl-security	28 M	
Updating:		
emi-version	x86_64	3.7.1-1.el6
UMD-3-updates	2.4 k	
gfal2-all	x86_64	2.4.8-1.el6
epel	8.9 k	
gfal2-core	x86_64	2.4.8-1.el6
epel	42 k	
gfal2-devel	x86_64	2.4.8-1.el6
epel	33 k	
gfal2-doc	noarch	2.4.8-1.el6
epel	93 k	
gfal2-plugin-dcap	x86_64	2.4.8-1.el6
epel	14 k	
gfal2-plugin-gridftp	x86_64	2.4.8-1.el6
epel	53 k	
gfal2-plugin-http	x86_64	2.4.8-1.el6
epel	21 k	
gfal2-plugin-lfc	x86_64	2.4.8-1.el6
epel	23 k	
gfal2-plugin-rfio	x86_64	2.4.8-1.el6
epel	14 k	
gfal2-plugin-srm	x86_64	2.4.8-1.el6
epel	41 k	
gfal2-transfer	x86_64	2.4.8-1.el6
epel	19 k	
glexec	x86_64	0.9.11-1.el6
EMI.glexec-wn.sl6.x86_64	87 k	
gnutls	x86_64	2.8.5-13.el6_5
sl-security	345 k	
kernel-firmware	noarch	2.6.32-
431.5.1.el6	sl-security	13 M
kernel-headers	x86_64	2.6.32-
431.5.1.el6	sl-security	2.8 M
lcmaps	x86_64	1.6.4-1.el6
EMI.glexec-wn.sl6.x86_64	79 k	
lcmaps-plugins-basic	x86_64	1.6.3-1.el6
EMI.glexec-wn.sl6.x86_64	41 k	
lcmaps-plugins-c-pep	x86_64	1.2.6-1.el6
EMI.glexec-wn.sl6.x86_64	30 k	
lcmaps-plugins-tracking-groupid	x86_64	0.1.2-
1.el6	EMI.glexec-wn.sl6.x86_64	11 k
lcmaps-plugins-verify-proxy	x86_64	1.5.6-
1.el6	EMI.glexec-wn.sl6.x86_64	32 k
lcmaps-plugins-voms	x86_64	1.6.4-1.el6
EMI.glexec-wn.sl6.x86_64	50 k	
libtiff	x86_64	3.9.4-10.el6_5
sl-security	342 k	

mysql-libs	x86_64	5.1.73-3.el6_5
sl-security	1.2 M	
wget	x86_64	1.12-1.11.el6_5
sl-security	482 k	
Removing:		
kernel	x86_64	2.6.32-358.6.1.el6
@sl-security/6.4	116 M	
Installing for dependencies:		
pugixml	x86_64	1.0-3.el6
epel	70 k	

### Transaction Summary

```

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```

}}}

\* Variables on the site-info.def

{{{

##### GLEXEC

GLEXEC\_WN\_OPMODE=setuid

GLEXEC\_WN\_SCAS\_ENABLED=no

GLEXEC\_WN\_ARGUS\_ENABLED=no

GLEXEC\_EXTRA\_WHITELIST=\*

##GLEXEC\_WN\_PEPD\_RESOURCEID="http://test30.egi.cesga.es/deny"

##GLEXEC\_WN\_PEPD\_ACTIONID="http://glite.org/xacml/action/execute"

##ARGUS\_PEPD\_ENDPOINTS="https://test30.egi.cesga.es:8154/authz"

}}}

\* Reconfiguring with YAIM (OK)

{{{

/opt/glite/yaim/bin/yaim -c -s /opt/glite/yaim/etc/site-info.def -n MPI\_WN -n WN -n TORQUE\_client -n GLEXEC\_wn

}}}

== Checking: ==

\* Nagios tests ok, <https://test23.egi.cesga.es/nagios/cgi-bin/status.cgi?host=test06.egi.cesga.es>

\* Checking ldap (OK):

{{{

glue-validator -H test06.egi.cesga.es -p 2170 -b o=grid -g glue1 -s general -v 3

```
glue-validator -H test06.egi.cesga.es -p 2170 -b o=glue -g glue2 -s general -v 3
glue-validator -H test06.egi.cesga.es -p 2170 -b o=glue -g egi-glue2 -s general -v 3
ldapsearch -x -h test06.egi.cesga.es -p 2170 -b GLUE2GroupID=resource,o=glue
objectclass=GLUE2Endpoint
ldapsearch -x -h test06.egi.cesga.es -p 2170 -b GLUE2GroupID=resource,o=glue
objectclass=GLUE2Endpoint | grep -i version
```

```
}}}
```

\* Checking world writable files (OK)

```
{}}
```

An easy way to find world-writable files is using the find command:

```
find / -type f -perm -002 -exec ls -l {} \;
```

For finding world-writable files in the packages contents:

```
rpm -qalv | egrep "^[^d]([^-r][^-w][^-xs]){2}[-r]w"
```

```
}}}
```

\* Submitting jobs using a SHA-2 robot certificate and a RFC proxy

```
{}}
```

```
[esfreire@test13 ~]$ voms-proxy-init -rfc --voms ops:/ops/Role=lcgadmin
```

```
}}}
```

```
{}}
```

```
[esfreire@test13 glxec_verification]$ rm -rf test.job;glite-wms-job-submit -a -o
test.job check_glexec.jdl
```

Connecting to the service [https://test22.egi.cesga.es:7443/glite\\_wms\\_wmproxy\\_server](https://test22.egi.cesga.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://test22.egi.cesga.es:9000/3wtl3jRQbkyNrzHc3vg14A
```

The job identifier has been saved in the following file:

```
/home/esfreire/glexec_verification/test.job
```

```
=====
```

```
[esfreire@test13 glxec_verification]$ glite-wms-job-status -i test.job
```

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

BOOKKEEPING INFORMATION:

Status info for the Job : <https://test22.egi.cesga.es:9000/3wtl3jRQbkyNrzHc3vg14A>

Current Status: Done(Success)

Logged Reason(s):

- job completed
- Job Terminated Successfully

Exit code: 0

Status Reason: Job Terminated Successfully

Destination: test06.egi.cesga.es:8443/cream-pbs-GRID\_ops

Submitted: Wed Mar 12 10:54:37 2014 CET

=====

}}}

{{{

```
[root@se2 tmp]# cat esfreire.err
```

```
+ voms-proxy-info -all
```

```
++ voms-proxy-info -path
```

```
+
```

```
USER_PROXY=/home/opssgm006/home_cream_987077081/cream_987077081.proxy
```

```
+ export
```

```
GLEXEC_CLIENT_CERT=/home/opssgm006/home_cream_987077081/cream_987077081.proxy
```

```
+
```

```
GLEXEC_CLIENT_CERT=/home/opssgm006/home_cream_987077081/cream_987077081.proxy
```

```
+ export
```

```
GLEXEC_SOURCE_PROXY=/home/opssgm006/home_cream_987077081/cream_987077081.proxy
```

```
+
```

```
GLEXEC_SOURCE_PROXY=/home/opssgm006/home_cream_987077081/cream_987077081.proxy
```

```
+ /usr/sbin/glexec /usr/bin/id -a
```

```
+ echo 'second test'
```

```
+ export MALLOC_TEST=bla
```

```
+ MALLOC_TEST=bla
```

```
+ /usr/sbin/glexec /usr/bin/id -a
```

```
[root@se2 tmp]# cat esfreire.out
```

```
subject : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM NagiosUser
```

```
managed by Esteban Freire Garcia/CN=proxy/CN=proxy/CN=proxy/CN=limited proxy
```

```

issuer   : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM NagiosUser
managed by Esteban Freire Garcia/CN=proxy/CN=proxy/CN=proxy
identity : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM NagiosUser
managed by Esteban Freire Garcia/CN=proxy/CN=proxy/CN=proxy
type     : limited proxy
strength : 1024 bits
path     : /home/opssgm006/home_cream_987077081/cream_987077081.proxy
timeleft : 3:51:56
key usage :
==== VO ops extension information ====
VO       : ops
subject  : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM NagiosUser
managed by Esteban Freire Garcia
issuer   : /DC=ch/DC=cern/OU=computers/CN=lcg-voms.cern.ch
attribute : /ops/Role=lcgadmin/Capability=NULL
attribute : /ops/NGI/Role=NULL/Capability=NULL
attribute : /ops/NGI/Portugal/Role=NULL/Capability=NULL
attribute : /ops/NGI/Spain/Role=NULL/Capability=NULL
attribute : /ops/Role=NULL/Capability=NULL
timeleft : 3:53:03
uri      : lcg-voms.cern.ch:15009
uid=30115(opssgm006) gid=30003(opssgm) groups=30001(ops)
second test
uid=30115(opssgm006) gid=30003(opssgm) groups=30001(ops)
}}}}

```

\* It was necessary configure the glxexec.conf file by hand

```

{{{
[root@test14 etc]# cat /etc/glexec.conf
#
# Glexec configuration file
#
[glexec]
silent_logging      = no
log_level           = 0
##user_white_list   =
user_white_list     =
.cesga,.dteam,.iber.vo.ibergrid.eu,.ops,.ops.vo.ibergrid.eu,.opssgm
linger              = yes
user_identity_switch_by = glexec
use_lcas            = yes
lcmaps_db_file      = /etc/lcmaps/lcmaps-glexec.db
lcmaps_log_file     = /var/log/glexec/lcas_lcmaps.log
lcmaps_debug_level  = 0
lcmaps_log_level    = 1
lcmaps_get_account_policy = glexec_get_account
lcmaps_verify_account_policy = glexec_verify_account

lcas_db_file        = /etc/lcas/lcas-glexec.db
lcas_log_file       = /var/log/glexec/lcas_lcmaps.log

```

```
lcas_debug_level      = 0
lcas_log_level        = 1
preserve_env_variables = no
log_destination       = syslog
```

```
}}
```

## **New Features/Fixed Bugs**

## **Additional Info**

---