

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

Name of the component			
Release	emi.cream.sl5.x86_64-1.13.4	RT Ticket	#4135
Software Provider			
Release Contact	Name: Cristina Aiftimiei	E-Mail: cristina.aiftimiei@pd.infn.it	
Validator	Name: Esteban Freire García	E-Mail: esfreire@cesga.es	
V. Hours Worked	6		
Component status	Verified	Date	24/07/12
Verification start date	23/07/12	Verification end date	24/07/12

Summary:

emi.cream.sl5.x86_64-1.13.4 was updated from UMD repository and from scratch without any relevant issue.

GGUS Tickets:

Summary of Quality Criteria verification:

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
TP				
VLD	18			18
	Specific Quality Criteria			
TP				
VLD	18			18

Quality Criteria verification cheatsheet:

Criteria	Accepted	Tested	Comments
DOCUMENTATION QC			
GENERIC_DOC_1 (Functional Description)	Optional		
GENERIC_DOC_2 (Release Notes)	Y	VLD	
GENERIC_DOC_3 (User Documentation)	Y	VLD	https://edms.cem.ch/document/595770
GENERIC_DOC_4 (Online help (man pages))	Y	VLD	https://wiki.italiangrid.it/twiki/bin/view/CREAM/UserGuideEMI2#Man_pages_for_CREAM_Command_Line
GENERIC_DOC_5 (API Documentation)	Y	VLD	https://wiki.italiangrid.it/twiki/bin/view/CREAM/DevelopersDocumentation
GENERIC_DOC_6 (Administrator Documentation)	Y	VLD	https://wiki.italiangrid.it/twiki/bin/view/CREAM/SystemAdministratorGuideForEMI1#1_3_CREAM_CE_Installation
GENERIC_DOC_7 (Service Reference Card)	Y	VLD	https://wiki.italiangrid.it/twiki/bin/view/CREAM/ServiceReferenceCardEMI2
GENERIC_DOC_8 (Software License)	Y	VLD	Emi-cream: Apache Software License 2.0
GENERIC_DOC_9 (Release changes text)	Y	VLD	http://grid.pd.infn.it/cream/
SOFTWARE DISTRIBUTION QC			
GENERIC_DIST_1 (Source Code Availability)	Y	VLD	http://admin-repo.egi.eu/sw/unverified/umd-1.emi.cream.sl5.x86_64/1/13/4/
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	http://admin-repo.egi.eu/sw/unverified/umd-1.emi.cream.sl5.x86_64/1/13/4/
SOFTWARE FEATURES QC			
GENERIC_SOFT_1 (Backwards Compatibility)	Y	VLD	
GENERIC_SOFT_2 (New features tested)	Y	VLD	
SERVICE CRITERIA QC			
GENERIC_SERVICE_1 (Service contracts)	Y	VLD	
GENERIC_SERVICE_2 (Log Files)	Y	VLD	
GENERIC_SERVICE_3 (Service Reliability)	Optional		
GENERIC_SERVICE_4 (Service Robustness)	Optional		
GENERIC_SERVICE_5 (Automatic Configuration)	Optional		
GENERIC_SERVICE_6 (Default Passwords)	Y	VLD	
SECURITY QC			
GENERIC_SEC_1 (World Writable Files)	Y	VLD	
GENERIC_SEC_3 (Passwords in world)	Y	VLD	
MISCELLANEOUS QC			
GENERIC_MISC_2 (Bug Tracking System)	Y	VLD	GGUS
AUTHENTICATION QC			
AUTHN_IFACE_1 (X.509 Certificate support)	Y	VLD	
AUTHN_DELEG_1 (Delegation Interface)	Y	VLD	
AUTHORISATION QC			
AUTHZ_PCYDEF_3 (Ban User/FQAN)	Y	VLD	
AUTHZ_PCYDEF_4 (Allowed users delegation)	Y	VLD	
AUTHZ_PEP_1 (Policy Enforcement)	Y	VLD	
AUTHZ_PEP_2 (User Mapping)	Y	VLD	
JOB EXECUTION QC			
JOBEXEC_IFACE_1 (Job Execution Interface)	Y	VLD	
JOBEXEC_JOB_1 (Simple Job)	Y	VLD	
JOBEXEC_JOB_2 (Simple Job with input)	Y	VLD	
JOBEXEC_JOB_3 (Cancel Job)	Y	VLD	
JOBEXEC_EXECMNGR_1 (Not Invasive)	Y	VLD	
JOBEXEC_EXECMNGR_2 (Job Management)	Y	VLD	
JOBEXEC_EXECMNGR_3 (Information)	Y	VLD	
JOBEXEC_AVAIL_1 (Service Redundancy)	Y	VLD	
JOBEXEC_AVAIL_2 (Self Disabling Mechanism)	Optional		
JOBEXEC_AVAIL_4 (Timely Job Status)	Optional		
PARALLEL JOB QC	Y	VLD	
PARALLEL_JOB_1 (Simple parallel jobs)	Y	VLD	
PARALLEL_JOB_2 (Single machine parallel jobs)	Optional		
PARALLEL_JOB_3 (Fine grained mapping)	Optional		
MONITORING PROBES QC			
MON_PROBE_GENERIC_1 (Certificate)	Optional		
MON_PROBE_GENERIC_2 (Service Health)	Optional		
MON_PROBE_JOBEXEC_1 (Job Execution)	Y	VLD	
MON_PROBE_JOBEXEC_2 (CREAM)	Y	VLD	
ACCOUNTING CAPABILITY QC			
ACC_JOBEXEC_1 (Job Execution Accounting)	Y	VLD	
CLIENT TOOLS QC			
CLIENT_TOOLS_1 (Command line Options)	Optional		
CLIENT_TOOLS_2 (Error Messages)	Optional		

Validator comments:

== EMI_creamCE_Torque + MPI ==

=== Ticket assigned ===

* [<https://rt.egi.eu/rt/Ticket/Display.html?id=4135>]

=== ggus tickets opened ===

=== Repositories ===

* NTP configuration.

* EPEL and EGI-trustanchors repositories.

{{{

rpm -Uvh <http://download.fedora.redhat.com/pub/epel/5/i386/epel-release-5-4.noarch.rpm>

}}}

{{{

[/etc/yum.repos.d/epel-testing.repo](#)

[/etc/yum.repos.d/epel.repo](#)

}}}

{{{

wget <http://repository.egi.eu/sw/production/cas/1/current/repo-files/egi-trustanchors.repo> -O [/etc/yum.repos.d/egi-trustanchors.repo](#)

}}}

* Remove dag repository

{{{

mv [/etc/yum.repos.d/dag.repo](#) /root/

}}}

* Disabling yum auto-update

{{{

```
wget http://forge.cnaf.infn.it/frs/download.php/101/disable_yum.sh
```

```
sh -x disable_yum.sh  
}}}
```

(!) Verifier must install a new repo for each product, this information is available at RT ticket field:

* CREAM repo under verification

```
{  
{  
{  
[root@test06 yum.repos.d]# cat EMI.cream.sl5.x86_64.repo  
# EGI Software Repository - REPO META (releaseId,repositoryId,repofileId) -  
(4135,654,580)
```

```
[EMI.cream.sl5.x86_64]  
name=EMI.cream.sl5.x86_64  
baseurl=http://admin-repo.egi.eu/sw/unverified/umd-1.emi.cream.sl5.x86_64/1/13/4/  
enabled=1  
protect=1  
priority=1  
gpgcheck=1  
gpgkey=http://emisoft.web.cern.ch/emisoft/dist/EMI/1/RPM-GPG-KEY-emi  
}}}
```

=== Installing ===

* Installing the CAs

```
{  
{  
{  
yum install ca-policy-egi-core  
  
yum install lcg-CA  
  
}}}
```

==== Installing the CREAM-CE software =====

```
{  
{  
{  
[root@test06 yum.repos.d]# rpm -qa | grep java  
  
java-1.4.2-gcj-compat-1.4.2.0-40jpp.115  
  
}}}
```

* yum install xml-commons-apis

```
{  
{  
{  
Installed:
```

xml-commons-apis.x86_64 0:1.3.02-0.b2.7jpp.10

Dependency Installed:

xml-commons.x86_64 0:1.3.02-0.b2.7jpp.10

}}}

* Install the CREAM-CE metapackage:

* yum install emi-cream-ce (OK)

{{{

```
=====
```

Package	Arch	Version
Repository	Size	

```
=====
```

Installing:

emi-cream-ce	x86_64	1.0.0-
1.sl5	UMD-1-base	2.3 k

Installing for dependencies:

ant	x86_64	1.6.5-2jpp.2
sl-base	2.3 M	
argus-gsi-pep-callout	x86_64	1.2.1-
1.sl5	UMD-1-base	39 k
argus-pep-api-c	x86_64	2.0.2-
1.sl5	UMD-1-base	53 k
axis	x86_64	1.2.1-2jpp.6
sl-base	3.6 M	
bcel	x86_64	5.1-8jpp.1
sl-base	1.1 M	
bdi	noarch	5.2.10-1.el5
UMD-1-updates	22 k	
bouncycastle	x86_64	1.45-
6.el5	epel	4.0 M
c-ares	x86_64	1.6.0-5.el5
sl-security	49 k	
classads	x86_64	1.0.8-1.el5
epel	453 k	
classpathx-jaf	x86_64	1.0-9jpp.1
sl-base	111 k	
classpathx-mail	x86_64	1.1.1-
4jpp.2	sl-base	1.2 M

cleanup-grid-accounts	noarch	2.0.0-
1	UMD-1-base	6.9 k
eclipse-ecj	x86_64	1:3.2.1-
19.el5	sl-base	9.0 M
emi-trustmanager	noarch	3.0.5-
1.sl5	UMD-1-updates	276 k
emi-trustmanager-tomcat	noarch	
3.0.0-1.sl5	UMD-1-base	30
k		
emi-version	x86_64	1.11.0-
1.sl5	UMD-1-updates	2.0 k
expect	x86_64	5.43.0-5.1
sl-base	160 k	
fetch-crl	noarch	2.8.5-1.el5
epel	24 k	
geronimo-specs	x86_64	1.0-
0.M2.2jpp.12	sl-base	258 k
geronimo-specs-compat	x86_64	1.0-
0.M2.2jpp.12	sl-base	5.4 k
giflib	x86_64	4.1.3-
7.1.el5_3.1	sl-base	39 k
glexec	x86_64	0.8.10-1.sl5
UMD-1-base	58 k	
glite-apel-core	noarch	2.0.14-
4.sl5	UMD-1-updates	1.0 M
glite-ce-blahp	x86_64	1.16.6-
3.sl5	EMI.cream.sl5.x86_64	531 k
glite-ce-ce-plugin	noarch	1.13.1-
3.sl5	UMD-1-base	16 k
glite-ce-cream	noarch	1.13.4-
1.sl5	UMD-1-updates	5.7 M
glite-ce-cream-utils	x86_64	1.1.0-
3.sl5	UMD-1-base	26 k
glite-ce-job-plugin	noarch	1.13.1-
3.sl5	UMD-1-base	26 k
glite-ce-monitor	noarch	1.13.3-
1.sl5	UMD-1-updates	5.1 M
glite-ce-yaim-cream-ce	x86_64	4.2.4-
1.sl5	UMD-1-updates	42 k
glite-info-provider-service	noarch	1.8.1-
2.el5	UMD-1-updates	59 k
glite-initscript-globus-gridftp	noarch	1.0.4-
1.sl5	UMD-1-base	3.5 k
glite-jobid-api-c	x86_64	2.0.3-
1.sl5	UMD-1-updates	19 k
glite-lb-common	x86_64	8.0.6-
1.sl5	UMD-1-updates	397 k
glite-lb-logger	x86_64	2.2.6-
1.sl5	UMD-1-updates	95 k

glite-lbjp-common-gss	x86_64	
3.0.6-1.sl5	EMI.cream.sl5.x86_64	
28 k		
glite-lbjp-common-log	x86_64	
1.1.2-6.sl5	UMD-1-base	11
k		
glite-lbjp-common-trio	x86_64	2.1.2-
7.sl5	UMD-1-updates	71 k
glite-yaim-bdii	noarch	4.3.9-
1.el5	UMD-1-updates	10 k
glite-yaim-core	noarch	5.0.2-
1.sl5	UMD-1-updates	116 k
globus-authz	x86_64	2.1-2.el5
UMD-1-updates	14 k	
globus-authz-callout-error	x86_64	2.1-
2.el5	UMD-1-updates	11 k
globus-callout	x86_64	2.1-2.el5
UMD-1-updates	17 k	
globus-common	x86_64	14.5-
4.el5	UMD-1-updates	131 k
globus-ftp-control	x86_64	4.2-
2.el5	UMD-1-updates	73 k
globus-gfork	x86_64	3.1-2.el5
UMD-1-updates	20 k	
globus-gridftp-server	x86_64	6.5-
4.1.el5	UMD-1-updates	165 k
globus-gridftp-server-control	x86_64	2.3-
2.el5	UMD-1-updates	77 k
globus-gridftp-server-progs	x86_64	6.5-
4.1.el5	UMD-1-updates	44 k
globus-gridmap-callout-error	x86_64	
1.2-2.el5	UMD-1-updates	
10 k		
globus-gsi-callback	x86_64	4.1-
2.el5	UMD-1-updates	42 k
globus-gsi-cert-utils	x86_64	8.1-
2.el5	UMD-1-updates	19 k
globus-gsi-credential	x86_64	5.1-
2.el5	UMD-1-updates	35 k
globus-gsi-openssl-error	x86_64	2.1-
2.el5	UMD-1-updates	16 k
globus-gsi-proxy-core	x86_64	6.1-
2.el5	UMD-1-updates	37 k
globus-gsi-proxy-ssl	x86_64	4.1-
2.el5	UMD-1-updates	18 k
globus-gsi-sysconfig	x86_64	5.1-
2.el5	UMD-1-updates	30 k
globus-gss-assist	x86_64	8.1-2.el5
UMD-1-updates	34 k	

globus-gssapi-error	x86_64	4.1-
2.el5	UMD-1-updates	14 k
globus-gssapi-gsi	x86_64	10.2-
2.el5	UMD-1-updates	57 k
globus-io	x86_64	9.2-2.el5
UMD-1-updates	44 k	
globus-openssl-module	x86_64	3.1-
2.el5	UMD-1-updates	13 k
globus-proxy-utils	x86_64	5.0-
2.el5	UMD-1-updates	45 k
globus-usage	x86_64	3.1-2.el5
UMD-1-updates	17 k	
globus-xio	x86_64	3.2-2.el5
UMD-1-updates	178 k	
globus-xio-gsi-driver	x86_64	2.1-
2.el5	UMD-1-updates	37 k
globus-xio-pipe-driver	x86_64	2.1-
2.el5	UMD-1-updates	17 k
glue-schema	noarch	2.0.8-
1.el5	UMD-1-updates	33 k
gridsite-shared	x86_64	1.7.19-
1.el5	UMD-1-updates	131 k
jakarta-commons-beanutils	x86_64	
1.7.0-5jpp.1	sl-base	567 k
jakarta-commons-collections	x86_64	
3.2-2jpp.3	sl-base	1.2 M
jakarta-commons-daemon	x86_64	
1:1.0.1-6jpp.1	sl-base	46 k
jakarta-commons-dbcp	x86_64	
1.2.1-7jpp.1	sl-base	278 k
jakarta-commons-digester	x86_64	1.7-
5jpp.1	sl-base	349 k
jakarta-commons-discovery	x86_64	
1:0.3-4jpp.1	sl-base	150 k
jakarta-commons-el	x86_64	1.0-
7jpp.1	sl-base	269 k
jakarta-commons-fileupload	x86_64	
1:1.0-6jpp.1	sl-base	53 k
jakarta-commons-httpclient	x86_64	
1:3.0-7jpp.1	sl-base	595 k
jakarta-commons-launcher	x86_64	
0.9-6jpp.1	sl-base	97 k
jakarta-commons-logging	x86_64	
1.0.4-6jpp.1	sl-base	115 k
jakarta-commons-modeler	x86_64	
1.1-8jpp.3.el5	sl-base	259 k
jakarta-commons-pool	x86_64	1.3-
5jpp.1	sl-base	142 k

java-1.6.0-openjdk	x86_64	
1:1.6.0.0-1.27.1.10.8.el5_8	sl-security	
36 M		
java-1.6.0-openjdk-devel	x86_64	
1:1.6.0.0-1.27.1.10.8.el5_8	sl-security	
12 M		
lcas	x86_64	1.3.13-1.sl5
UMD-1-base	34 k	
lcas-lcmaps-gt4-interface	x86_64	
0.1.4-1.sl5	UMD-1-base	16
k		
lcas-plugins-basic	x86_64	1.3.4-
1.sl5	UMD-1-base	22 k
lcas-plugins-check-executable	x86_64	
1.2.2-1.sl5	UMD-1-base	9.2
k		
lcas-plugins-voms	x86_64	1.3.7-
1.sl5	UMD-1-base	29 k
lcg-expiregridmapdir	noarch	3.0.1-1
UMD-1-base	6.7 k	
lcg-info-dynamic-scheduler-generic	noarch	
2.3.5-1.sl5	UMD-1-base	47
k		
lcg-info-dynamic-software	noarch	
1.0.5-1.sl5	UMD-1-base	3.2
k		
lcmaps	x86_64	1.4.29-1.sl5
UMD-1-base	98 k	
lcmaps-plugins-basic	x86_64	1.4.5-
1.sl5	UMD-1-base	48 k
lcmaps-plugins-verify-proxy	x86_64	
1.4.12-2.sl5	UMD-1-updates	
25 k		
lcmaps-plugins-voms	x86_64	
1.4.3-1.sl5	UMD-1-base	39
k		
libtool-ltdl	x86_64	1.5.22-
7.el5_4	sl-base	38 k
log4c	x86_64	1.2.1-7.el5
epel	35 k	
log4j	x86_64	1.2.13-3jpp.2
sl-base	729 k	
mx4j	x86_64	1:3.0.1-
6jpp.4	sl-base	2.7 M
mysql	x86_64	5.0.95-
1.el5_7.1	sl-security	4.9 M
mysql-connector-java	x86_64	
1:5.1.12-2.el5	epel	2.5 M
mysql-server	x86_64	5.0.95-
1.el5_7.1	sl-security	9.9 M

openldap-clients 12.el5_6.7	x86_64 sl-security	2.3.43- 223 k
openldap-servers 12.el5_6.7	x86_64 sl-security	2.3.43- 2.2 M
perl-Compress-Zlib 1.fc6	x86_64 sl-base	1.42- 52 k
perl-DBD-MySQL 3.0007-2.el5	x86_64 sl-base	147 k
perl-DBI sl-base	x86_64	1.52-2.el5
perl-HTML-Parser 1.fc6	605 k x86_64 sl-base	3.55- 91 k
perl-HTML-Tagset 2.1.1	noarch sl-base	3.10- 14 k
perl-URI sl-base	noarch	1.35-3
perl-XML-Parser 6.1.2.2.1	116 k x86_64 sl-base	2.34- 209 k
perl-XML-Simple 4.fc6	noarch sl-base	2.14- 68 k
perl-libwww-perl 1.1.1	noarch sl-base	5.805- 375 k
regex sl-base	x86_64	1.4-2jpp.2
tomcat5 0jpp.31.el5_8	102 k x86_64 sl-security	5.5.23- 362 k
tomcat5-common-lib 5.5.23-0jpp.31.el5_8	x86_64 sl-security	
225 k		
tomcat5-jasper 0jpp.31.el5_8	x86_64 sl-security	5.5.23- 1.1 M
tomcat5-jsp-2.0-api 0jpp.31.el5_8	x86_64 sl-security	5.5.23- 103 k
tomcat5-server-lib 0jpp.31.el5_8	x86_64 sl-security	5.5.23- 4.0 M
tomcat5-servlet-2.4-api 5.5.23-0jpp.31.el5_8	x86_64 sl-security	
163 k		
tzdata-java 3.el5	x86_64 sl-security	2012c- 181 k
voms	x86_64	2.0.7-1.el5
UMD-1-updates	163 k	
voms-clients 1.el5	x86_64 UMD-1-updates	2.0.7- 171 k
wSDL4j sl-base	x86_64	1.5.2-4jpp.1
428 k		
xalan-j2 sl-base	x86_64	2.7.0-6jpp.1
4.6 M		
xerces-j2 7jpp.2.el5_4.2	x86_64 sl-base	2.7.1- 3.1 M

```
xml-commons-resolver          x86_64          1.1-
ljsp.12                        sl-base         170 k
```

Transaction Summary

```
}}}
```

==== Installation of the batch system specific software =====

* If you are running Torque, and your CREAM CE node is the torque master, install the emi-torque-server and emi-torque-utils metapackages:

* yum install emi-torque-server

```
{{{
```

Package Repository	Size	Arch	Version
Installing:			
emi-torque-server 1.sl5		x86_64 UMD-1-base	1.0.0- 1.7 k
Installing for dependencies:			
glite-yaim-torque-server 1.sl5		noarch UMD-1-base	5.0.0- 5.9 k
glite-yaim-torque-utils 1.sl5		noarch UMD-1-base	5.0.0- 7.5 k
libtorque epel	93 k	x86_64	2.5.7-7.el5
maui snap.1234905291.5.el5		x86_64 UMD-1-base	3.2.6p21-
maui-client snap.1234905291.5.el5		x86_64 UMD-1-base	3.2.6p21-
maui-server snap.1234905291.5.el5		x86_64 UMD-1-base	3.2.6p21-
munge epel	114 k	x86_64	0.5.8-8.el5

munge-libs		x86_64	0.5.8-8.el5
epel	25 k		
torque		x86_64	2.5.7-7.el5
epel	49 k		
torque-client		x86_64	2.5.7-7.el5
epel	199 k		
torque-server		x86_64	2.5.7-7.el5
epel	184 k		

Transaction Summary

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=====
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}}}
```

* yum install emi-torque-utils

```

{{{
=====
=====
=====
=====
```

Package	Arch	Repository	Size
Version			
=====			
=====			
=====			

```

Installing:
emi-torque-utils                x86_64
1.0.0-1.sl5                    UMD-1-base                1.8 k
Installing for dependencies:
glite-apel-pbs                 noarch
2.0.6-7.sl5                   UMD-1-updates             24 k
lcg-info-dynamic-pbs          noarch
2.0.0-1.sl5                   UMD-1-base                3.7 k
lcg-info-dynamic-scheduler-pbs noarch
2.2.1-1.sl5                   UMD-1-base                22 k
lcg-pbs-utils                 x86_64
2.0.0-1.sl5                   UMD-1-base                4.0 k
```

Transaction Summary

```

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}}}
```

==== Configure the siteinfo.def file for the CreamCE =====

* This is the site-info used to configure the CreamCE + Torque

```
{{{
```

```
[root@test06 etc]# cat site-info.def
```

```
# YAIM example site configuration file - adapt it to your site!
```

```
#####
```

```
# CE configuration variables #
```

```
#####
```

```
CE_HOST=test06.egi.cesga.es
```

```
WMS_HOST=test22.egi.cesga.es
```

```
##BDII_HOST=topbdii02.ncg.ingrid.pt
```

```
##SITE_BDII_HOST=sbdii02.ncg.ingrid.pt
```

```
BDII_HOST=test04.egi.cesga.es
```

```
BDII_LIST="test04.egi.cesga.es:2170,topbdii02.ncg.ingrid.pt:2170"
```

```
SITE_BDII_HOST=test04.egi.cesga.es
```

```
##LFC_HOST=lxb7607.cern.ch
```

```
PX_HOST=myproxy.egi.cesga.es
```

```
MON_HOST=test07.egi.cesga.es
```

```
YAIM_LOGGING_LEVEL=DEBUG
```

```
#####
```

```
# CREAM CE node cluster mode #
```

```
#####
```

```
CREAMCE_CLUSTER_MODE=yes
```

```
# Hostname where the cluster is configured
```

```
CLUSTER_HOST="test06.egi.cesga.es"
```

```
COMPUTING_SERVICE_ID="test06.egi.cesga.es_ComputingElement"
```

```
# Space separated list of your cluster names
```

```
CLUSTERS="clustersa2"
```

```
# Cluster UniqueID
```

```
CLUSTER_CLUSTERSA2_CLUSTER_UniqueID=my-sa2
```

```
CLUSTER_TEST06_EGI_CESGA_ES_CLUSTER_UniqueID=my-sa2
```

```
##QUEUE_XXX_CLUSTER_UniqueID
```

```
# Cluster human readable name
```

```
CLUSTER_CLUSTERSA2_CLUSTER_Name="This is the SA2 cluster for UMD verification"
```

```
CLUSTER_TEST06_EGI_CESGA_ES_CLUSTER_Name="This is the SA2 cluster for UMD verification"
```

```

# Site name where the cluster belongs to
# It should be consistent with your variable SITE_NAME
# NOTE: This may be changed to SITE_UniqueID when the GlueSite
# is configured with the new infosys variables
CLUSTER_CLUSTERSA2_SITE_UniqueID=cesga-egi
CLUSTER_TEST06_EGI_CESGA_ES_SITE_UniqueID=cesga-egi

# space separated list of CE hostnames configured in the cluster
CLUSTER_CLUSTERSA2_CE_HOSTS="test06.egi.cesga.es"
CLUSTER_TEST06_EGI_CESGA_ES_CE_HOSTS="test06.egi.cesga.es"
CLUSTER_YAIM_CE_TYPE="cream"
CLUSTER_CLUSTERSA2_INFO_PORT=2170
CLUSTER_CLUSTERSA2_INFO_TYPE=resource

# Define the following variables for the CEs configured in your cluster
# NOTE: you don't need to uncomment these variables if you are configuring
# only one CE in the same host as your cluster.
# You can use the variables defined in services/lcg-ce instead
# CE type: 'jobmanager' for lcg CE and 'cream' for cream CE
CE_HOST_test06_egi_cesga_es_CE_TYPE="cream"

# Space separated list of the queue names configured in the CE
# This variable has been renamed in the new infosys configuration.
# The old variable name was: QUEUES
#CE_HOST_test06_egi_cesga_es_QUEUES="GRID_ops GRID_dteam GRID_opsibeu
GRID_iberibeu"

# The name of the job manager used by the gatekeeper
# This variable has been renamed in the new infosys configuration.
# The old variable name was: JOB_MANAGER
# Please, define: lcgpbs, lcgifs, lcgsgc or lcgcondor
CE_HOST_test06_egi_cesga_es_CE_InfoJobManager="pbs"

CE_HOST_test06_egi_cesga_es_QUEUES="GRID_ops GRID_dteam GRID_opsibeu
GRID_iberibeu"
QUEUE_GRID_OPS_CLUSTER_UniqueID=my-sa2
QUEUE_GRID_DTEAM_CLUSTER_UniqueID=my-sa2
QUEUE_GRID_OPSIBEU_CLUSTER_UniqueID=my-sa2
QUEUE_GRID_IBERIBEU_CLUSTER_UniqueID=my-sa2

# The Subcluster variables should contain the name of the subcluster variable in upper
case
SUBCLUSTER_TEST06_EGI_CESGA_ES_SUBCLUSTER_UniqueID=cesga-egi-
configuration
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_ApplicationSoftwareRunTimeEnv
ironment="LCG-2|LCG-2_1_0|LCG-2_1_1|LCG-2_2_0" # CE_RUNTIMEENV
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_ArchitectureSMPSize=2
# CE_SMPSIZE

```

```
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_ArchitecturePlatformType=x86_64
# CE_OS_ARCH
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_BenchmarkSF00=1714
# CE_SF00
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_BenchmarkSI00=2395
# CE_SI00
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_MainMemoryRAMSize=513
# CE_MINPHYSMEM
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_MainMemoryVirtualSize=524
# CE_MINVIRTMEM
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_NetworkAdapterInboundIP=FALSE
# CE_INBOUNDIP
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_NetworkAdapterOutboundIP=TRUE
# CE_OUTBOUNDIP
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_OperatingSystemName="Scientific Linux"
# CE_OS
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_OperatingSystemRelease=5.5
# CE_OS_RELEASE
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_OperatingSystemVersion="ScientificSL"
# CE_OS_VERSION
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_ProcessorClockSpeed=2200
# CE_CPU_SPEED
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_ProcessorModel=Opteron
# CE_CPU_MODEL
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_ProcessorVendor=amd
# CE_CPU_VENDOR
SUBCLUSTER_TEST06_EGI_CESGA_ES_HOST_ProcessorOtherDescription="Core s=24,Benchmark=9.58-HEP-SPEC06"
# Processor description
SUBCLUSTER_TEST06_EGI_CESGA_ES_SUBCLUSTER_Name="my subcluster SA2 verification"
SUBCLUSTER_TEST06_EGI_CESGA_ES_SUBCLUSTER_PhysicalCPUs=2
# CE_PHYSCPU
SUBCLUSTER_TEST06_EGI_CESGA_ES_SUBCLUSTER_LogicalCPUs=4
# CE_LOGCPU
SUBCLUSTER_TEST06_EGI_CESGA_ES_SUBCLUSTER_TmpDir=/tmp
SUBCLUSTER_TEST06_EGI_CESGA_ES_SUBCLUSTER_WNTmpDir=/tmp
```

```
#####
# Site configuration variables #
#####
```

```
SITE_EMAIL=egee-admin@cesga.es
```

```
SITE_NAME=CESGA-EGEE
SITE_LOC="Santiago de Compostela, Spain"
SITE_LAT=42.875558 #42.8757 # -90 to 90 degrees
SITE_LONG=-8.553147 # -8.5536 # -180 to 180 degrees
```

```
#####
# Batch server configuration variables #
#####

# Jobmanager specific settings
JOB_MANAGER=lcgpbs
BATCH_SERVER=test06.egi.cesga.es
CE_BATCH_SYS=torque
BATCH_LOG_DIR=/var/torque
BATCH_VERSION=torque-2.5.7-7

#####
# APEL configuration variables #
#####

# Database password for the APEL DB.
APEL_MYSQL_HOST=test07.egi.cesga.es
APEL_DB_PASSWORD=""

#####

# ARGUS authorisation framework control #

#####

# Set USE_ARGUS to yes to enable the configuration of ARGUS

###USE_ARGUS=yes
USE_ARGUS=no

# In case ARGUS is to be used the following should be set
# The ARGUS service PEPD endpoints as a space separated list:

###ARGUS_PEPD_ENDPOINTS="https://test10.egi.cesga.es:8154/authz"
###CREAM_PEPD_RESOURCEID="http://www.egee.cesga.es/test10"

# These variables tell YAIM where to find additional configuration files.
WN_LIST=/opt/glite/yaim/etc/wn-list.conf
USERS_CONF=/opt/glite/yaim/etc/users.conf
GROUPS_CONF=/opt/glite/yaim/etc/groups.conf
FUNCTIONS_DIR=/opt/glite/yaim/functions

#
# SE_dpm-specific settings - Ignore if you are not running a DPM
```



```
#
# Set these if you are installing a DPM yourself
# and/or if you need a default DPM for the lcg-stdout-mon
#
# DPMDATA is now deprecated. Use an entry like $DPM_HOST:/filesystem in
# the DPM_FILESYSTEMS variable.
# From now on we use DPM_DB_USER and DPM_DB_PASSWORD to make clear
# its different role from that of the dpmmgr unix user who owns the
# directories and runs the daemons.
```

```
# The name of the DPM head node
DPM_HOST=test08.egi.cesga.es
```

```
DPMPOOL=egi-pool
DPM_FILESYSTEMS="$DPM_HOST:/storage"
```

```
# The base user
DPM_DB_USER=dpmmgr
DPM_DB_HOST=$DPM_HOST
DPM_DB_PASSWORD=
```

```
# Specifies the default amount of space reserved for a file
#DPMFSIZE=200M
```

```
DPM_INFO_USER=dpm_info
DPM_INFO_PASS=
```

```
# Variable for the port range - Optional, default value is shown
# RFIO_PORT_RANGE="20000 25000"
```

```
# This largely replaces CE_CLOSE_SE but it is a list of hostnames
SE_MOUNT_INFO_LIST="none"
SE_LIST="$DPM_HOST"
SE_ARCH="multidisk" # "disk, tape, multidisk, other"
```

```
#####
# SubCluster configuration #
#####
# Architecture and environment specific settings
CE_CPU_MODEL=Opteron
CE_CPU_VENDOR=amd
CE_CPU_SPEED=2200
```

```
CE_OS="ScientificSL" # Forma correcta
CE_OS_RELEASE=5.5
```

CE_OS_VERSION="Boron"

#New variables

CE_PHYSCPU=2

CE_LOGCPU=2

CE_OS_ARCH=x86_64

CE_CAPABILITY="CPUScalingReferenceSI00=2395"

CE_OTHERDESCR="Cores=24,Benchmark=9.58-HEP-SPEC06"

SE_MOUNT_INFO_LIST="none"

CE_SI00=2395

CE_MINPHYSMEM=524

CE_MINVIRTMEM=512

CE_SMPSIZE=2

CE_SF00=1714

CE_OUTBOUNDIP=TRUE

CE_INBOUNDIP=FALSE

CE_RUNTIMEENV="

LCG-2

LCG-2_1_0

LCG-2_1_1

LCG-2_2_0

LCG-2_3_0

LCG-2_3_1

LCG-2_4_0

LCG-2_5_0

LCG-2_6_0

LCG-2_7_0

GLITE-3_0_0

GLITE-3_0_2

GLITE-3_1_0

R-GMA

"

###CREAM CE Variables

CEMON_HOST=test06.egi.cesga.es

CREAM_DB_USER=umdttest

CREAM_DB_PASSWORD=""

MYSQL_PASSWORD=""

BLPARSER_HOST=test06.egi.cesga.es

MPI CONFIGURATION

#####

MPI_OPENMPI_ENABLE="yes"

MPI_OPENMPI_VERSION="1.4-4"

##If you do NOT provide a shared home, set \$MPI_SHARED_HOME to "no" (default).

###MPI_SHARED_HOME="no"

```

## If you do NOT have SSH Hostbased Authentication between your WNs, set the
below variable to "no" (default). Else, set it to "yes".
###MPI_SSH_HOST_BASED_AUTH="yes"
### If you use Torque as batch system, you may want to let the yaim plugin configure a
submit filter for you. Uncomment the following line to do so
MPI_SUBMIT_FILTER="yes"
# KNOWN ISSUE IN SL6!!!
##TORQUE_VAR_DIR=/var/lib/torque

# VOS="atlas alice lhcb cms dteam biomed"
# Space separated list of supported VOs by your site
VOS="ops dteam ops.vo.ibergrid.eu iber.vo.ibergrid.eu"
QUEUES="GRID_ops GRID_dteam GRID_opsibeu GRID_iberibeu"
VO_SW_DIR=/opt/exp_soft

#New in Yaim 3.0.1
GRID_OPS_GROUP_ENABLE="ops /VO=ops/GROUP=/ops/ROLE=lcgadmin"
GRID_DTEAM_GROUP_ENABLE="dteam
/VO=dteam/GROUP=/dteam/ROLE=lcgadmin"
GRID_OPSIBEU_GROUP_ENABLE="ops.vo.ibergrid.eu
/VO=ops.vo.ibergrid.eu/GROUP=/ops.vo.ibergrid.eu/ROLE=VO-Admin
/VO=ops.vo.ibergrid.eu/GROUP=/ops.vo.ibergrid.eu/ROLE=Production"
GRID_IBERIBEU_GROUP_ENABLE="iber.vo.ibergrid.eu
/VO=iber.vo.ibergrid.eu/GROUP=/iber.vo.ibergrid.eu/ROLE=VO-Admin
/VO=iber.vo.ibergrid.eu/GROUP=/iber.vo.ibergrid.eu/ROLE=Production"

#:::
#ops
#:::
VO_OPS_SW_DIR=$VO_SW_DIR/ops
VO_OPS_DEFAULT_SE=$DPM_HOST
VO_OPS_STORAGE_DIR=$CLASSIC_STORAGE_DIR/ops
VO_OPS_QUEUES="GRIDEGI_ops"
VO_OPS_VOMS_SERVERS=""vomss://voms.cern.ch:8443/voms/ops?/ops/"
VO_OPS_VOMSES=""ops voms.cern.ch 15009
/DC=ch/DC=cern/OU=computers/CN=voms.cern.ch ops' 'ops lcg-voms.cern.ch
15009 /DC=ch/DC=cern/OU=computers/CN=lcg-voms.cern.ch ops""
VO_OPS_VOMS_CA_DN=""/DC=ch/DC=cern/CN=CERN Trusted Certification
Authority' '/DC=ch/DC=cern/CN=CERN Trusted Certification Authority""

#:::
#dteam
#:::
VO_DTEAM_SW_DIR=$VO_SW_DIR/dteam
VO_DTEAM_DEFAULT_SE=$DPM_HOST
VO_DTEAM_STORAGE_DIR=$CLASSIC_STORAGE_DIR/dteam
VO_DTEAM_QUEUES="GRID_dteam"

```

```
VO_DTEAM_VOMS_SERVERS='vomss://voms.hellasgrid.gr:8443/voms/dteam?/dteam/'
VO_DTEAM_VOMSES=""dteam lcg-voms.cern.ch 15004
/DC=ch/DC=cern/OU=computers/CN=lcg-voms.cern.ch dteam 24' 'dteam voms.cern.ch
15004 /DC=ch/DC=cern/OU=computers/CN=voms.cern.ch dteam 24' 'dteam
voms.hellasgrid.gr 15004
/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms.hellasgrid.gr dteam 24' 'dteam
voms2.hellasgrid.gr 15004
/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms2.hellasgrid.gr dteam 24""
VO_DTEAM_VOMS_CA_DN=""/DC=ch/DC=cern/CN=CERN Trusted Certification
Authority' '/DC=ch/DC=cern/CN=CERN Trusted Certification Authority'
'/C=GR/O=HellasGrid/OU=Certification Authorities/CN=HellasGrid CA 2006'
'/C=GR/O=HellasGrid/OU=Certification Authorities/CN=HellasGrid CA 2006""
```

```
## IBERGRID VOS ##
```

```
# ops.vo.ibergrid.eu
VO_OPS_VO_IBERGRID_EU_SW_DIR=$VO_SW_DIR/opsibeu
VO_OPS_VO_IBERGRID_EU_DEFAULT_SE=$DPM_HOST
VO_OPS_VO_IBERGRID_EU_STORAGE_DIR=$CLASSIC_STORAGE_DIR/opsibeu
VO_OPS_VO_IBERGRID_EU_QUEUES="GRID_opsibeu"
VO_OPS_VO_IBERGRID_EU_VOMS_SERVERS=""vomss://voms02.ncg.ingrid.pt:8443/voms/ops.vo.ibergrid.eu?/ops.vo.ibergrid.eu""
VO_OPS_VO_IBERGRID_EU_VOMSES=""ops.vo.ibergrid.eu voms02.ncg.ingrid.pt
40001 /C=PT/O=LIPCA/O=LIP/OU=Lisboa/CN=voms02.ncg.ingrid.pt
ops.vo.ibergrid.eu""
VO_OPS_VO_IBERGRID_EU_VOMS_CA_DN=""/C=PT/O=LIPCA/CN=LIP
Certification Authority""
```

```
# iber.vo.ibergrid.eu
```

```
VO_IBER_VO_IBERGRID_EU_SW_DIR=$VO_SW_DIR/iberibeu
VO_IBER_VO_IBERGRID_EU_DEFAULT_SE=$DPM_HOST
VO_IBER_VO_IBERGRID_EU_STORAGE_DIR=$CLASSIC_STORAGE_DIR/iberibeu
VO_IBER_VO_IBERGRID_EU_QUEUES="GRID_iberibeu"
VO_IBER_VO_IBERGRID_EU_VOMS_SERVERS=""vomss://voms02.ncg.ingrid.pt:8443/voms/iber.vo.ibergrid.eu?/iber.vo.ibergrid.eu""
VO_IBER_VO_IBERGRID_EU_VOMSES=""iber.vo.ibergrid.eu voms02.ncg.ingrid.pt
40003 /C=PT/O=LIPCA/O=LIP/OU=Lisboa/CN=voms02.ncg.ingrid.pt
iber.vo.ibergrid.eu""
VO_IBER_VO_IBERGRID_EU_VOMS_CA_DN=""/C=PT/O=LIPCA/CN=LIP
Certification Authority""
```

```
{
```

```
ops.vo.ibergrid.eu and iber.vo.ibergrid.eu VOs were included from verification VOMS
server installed at LIP. (voms02.ncg.ingrid.pt)
```

```
LB and WMS were configured at CESGA (test22.egi.cesga.es)
```

TopBDII was configured for verification in topbdii02.ncg.ingrid.pt.

}}}

* Set your siteinfo.def file, which is the input file used by yaim. Documentation about yaim variables relevant for CREAM CE is available at:

* [https://twiki.cern.ch/twiki/bin/view/LCG/Site-info_configuration_variables#cream_CE]

(!) Be sure that CREAMCE_CLUSTER_MODE is set to no (or not set at all).

(!) The MPI_CE profile should be the first in the yaim configuration, otherwise the Glue variables will not be properly defined. This restriction may be removed in future versions.

==== Configuring with YAIM the CreamCE =====

```
{
/opt/glite/yaim/bin/yaim -c -s /opt/glite/yaim/etc/site-info.def -n creamCE -n
TORQUE_server -n TORQUE_utils
[ ... ]
```

Starting glite-lb-interlogd ... done

DEBUG: Skipping function: config_glite_initd_setenv because it is not defined

INFO: Executing function: config_glite_initd

INFO: Executing function: config_torque_server_setenv

INFO: Currently this function doesn't set any environment variables.

INFO: Executing function: config_torque_server

DEBUG: Add all the pbs services...

DEBUG: Define the batch server name

DEBUG: Create the node list

DEBUG: (Re)start the torque server

INFO: Re-starting the torque server

pbs_server is not running.

DEBUG: Create the pbs queues

DEBUG: Creating queue: GRID_ops

DEBUG: Creating queue: GRID_dteam

DEBUG: Creating queue: GRID_opsibeu

DEBUG: Creating queue: GRID_iberibeu

DEBUG: Mapping: ops --> ops

DEBUG: Adding acl_groups += ops to queue GRID_ops.

DEBUG: Mapping: /VO=ops/GROUP=/ops/ROLE=lcgadmin --> opssgm

DEBUG: Adding acl_groups += opssgm to queue GRID_ops.

DEBUG: Mapping: dteam --> dteam

DEBUG: Adding acl_groups += dteam to queue GRID_dteam.

DEBUG: Mapping: /VO=dteam/GROUP=/dteam/ROLE=lcgadmin --> dteamsgm

DEBUG: Adding acl_groups += dteamsgm to queue GRID_dteam.
DEBUG: Mapping: ops.vo.ibergrid.eu --> opsibeu
DEBUG: Adding acl_groups += opsibeu to queue GRID_opsibeu.
DEBUG: Mapping: /VO=ops.vo.ibergrid.eu/GROUP=/ops.vo.ibergrid.eu/ROLE=VO-Admin --> opsibeusgm
DEBUG: Adding acl_groups += opsibeusgm to queue GRID_opsibeu.
DEBUG: Mapping:
/VO=ops.vo.ibergrid.eu/GROUP=/ops.vo.ibergrid.eu/ROLE=Production --> opsibeuprd
DEBUG: Adding acl_groups += opsibeuprd to queue GRID_opsibeu.
DEBUG: Mapping: iber.vo.ibergrid.eu --> ibeibeu
DEBUG: Adding acl_groups += ibeibeu to queue GRID_iberibeu.
DEBUG: Mapping:
/VO=iber.vo.ibergrid.eu/GROUP=/iber.vo.ibergrid.eu/ROLE=VO-Admin --> ibeibeusgm
DEBUG: Adding acl_groups += ibeibeusgm to queue GRID_iberibeu.
DEBUG: Mapping:
/VO=iber.vo.ibergrid.eu/GROUP=/iber.vo.ibergrid.eu/ROLE=Production --> ibeibeuprd
DEBUG: Adding acl_groups += ibeibeuprd to queue GRID_iberibeu.
pbs_server is not running.
DEBUG: zip server log
INFO: Executing function: config_mauai_cfg_setenv
DEBUG: Currently this function doesn't set any environment variables.
INFO: Executing function: config_mauai_cfg
INFO: configuring mauai ...
DEBUG: Saving the existing mauai configuration
creamCE TORQUE_server TORQUE_utils
DEBUG: Starting Maui ...
MAUI is already stopped: [OK]
Starting MAUI Scheduler: [OK]
INFO: Executing function: config_apel_pbs_setenv
DEBUG: This function currently doesn't set any environment variables.
INFO: Executing function: config_apel_pbs
DEBUG: Check if the parser config template (/etc/glite-apel-pbs/parser-config.xml) exists, exits if not
DEBUG: Create a parser config xml file (/etc/glite-apel-pbs/parser-config-yaim.xml)
DEBUG: Creating APEL parser configuration in /etc/glite-apel-pbs/parser-config.xml
DEBUG: Change the ownership and permissions of the created config file
DEBUG: Add a cron job (edg-apel-pbs-parser) for periodic configuration.
INFO: Executing function: config_gip_sched_plugin_pbs_setenv
DEBUG: This function currently doesn't set any environment variables.
INFO: Executing function: config_gip_sched_plugin_pbs
DEBUG: Checks if the batch system is correct for this function
DEBUG: Define the 'max jobs' cmd for the VOs
Cannot connect to default server host 'test06.egi.cesga.es' - check pbs_server daemon.
/usr/bin/pbsnodes: cannot connect to server test06.egi.cesga.es, error=111 (Connection refused)
Cannot connect to default server host 'test06.egi.cesga.es' - check pbs_server daemon.
/usr/bin/pbsnodes: cannot connect to server test06.egi.cesga.es, error=111 (Connection refused)

```

DEBUG: Add BATCH_SERVER to the /var/torque/server_name file to enable torque
clients
DEBUG: Create ERT configuration
DEBUG: Skipping function: config_torque_submitter_ssh_setenv because it is not
defined
INFO: Executing function: config_torque_submitter_ssh
Reloading sshd: [ OK ]
INFO: Configuration Complete. [ OK ]
INFO: YAIM terminated succesfully.
[root@test06 etc]#
}}}
```

(!) I needed to configure like 3 times, and start pbs_server daemon by hand in order to the YAIM configuration finished OK

==== To enable munge on your torque cluster =====

- * Install the munge package on your pbs_server and submission hosts in your cluster.
- * On one host generate a key with `*/usr/sbin/create-munge-key*`
- * Copy the key, `/etc/munge/munge.key` to your pbs_server and submission hosts on your cluster.
- * Start the munge daemon on these nodes.. `**service munge stop && service munge start && chkconfig munge on**`

=== TESTING ===

==== Checking ldap (OK) =====

```
{{{
```

```
[root@ce2 etc]# ldapsearch -x -H ldap://sbdi02.ncg.ingrid.pt:2170 -b o=grid | grep
cesga
```

```
# test06.egi.cesga.es, UMD-VERIFICATION, grid
```

```
dn: GlueClusterUniqueID=test06.egi.cesga.es,Mds-Vo-name=UMD-
VERIFICATION,o=gri
```

```
GlueClusterUniqueID: test06.egi.cesga.es
```

```
GlueClusterService: test06.egi.cesga.es:8443/cream-pbs-GRID_ops
```

```
GlueClusterService: test06.egi.cesga.es:8443/cream-pbs-GRID_dteam
```

```
GlueClusterService: test06.egi.cesga.es:8443/cream-pbs-GRID_opsibergrid
```

```
GlueClusterService: test06.egi.cesga.es:8443/cream-pbs-GRID_ibergrid
```

```
GlueForeignKey: GlueCEUniqueID: test06.egi.cesga.es:8443/cream-pbs-GRID_ops
```

```
GlueForeignKey: GlueCEUniqueID: test06.egi.cesga.es:8443/cream-pbs-GRID_dteam
GlueForeignKey: GlueCEUniqueID: test06.egi.cesga.es:8443/cream-pbs-GRID_opsibe
GlueForeignKey: GlueCEUniqueID: test06.egi.cesga.es:8443/cream-pbs-GRID_ibergr
GlueClusterName: test06.egi.cesga.es
}}}
```

```
{{{
```

```
[root@ce2 etc]# ldapsearch -x -H ldap://topbdii02.ncg.ingrid.pt:2170 -b o=grid | grep
test06
```

```
# test06.egi.cesga.es, UMD-VERIFICATION, local, grid
```

```
dn: GlueClusterUniqueID=test06.egi.cesga.es,Mds-Vo-name=UMD-
VERIFICATION,Mds-V
```

```
GlueClusterUniqueID: test06.egi.cesga.es
```

```
GlueClusterService: test06.egi.cesga.es:8443/cream-pbs-GRID_ops
```

```
GlueClusterService: test06.egi.cesga.es:8443/cream-pbs-GRID_dteam
```

```
GlueClusterService: test06.egi.cesga.es:8443/cream-pbs-GRID_opsibergrid
```

```
GlueClusterService: test06.egi.cesga.es:8443/cream-pbs-GRID_ibergrid
```

```
GlueForeignKey: GlueCEUniqueID: test06.egi.cesga.es:8443/cream-pbs-GRID_ops
```

```
GlueForeignKey: GlueCEUniqueID: test06.egi.cesga.es:8443/cream-pbs-GRID_dteam
```

```
GlueForeignKey: GlueCEUniqueID: test06.egi.cesga.es:8443/cream-pbs-GRID_opsibe
```

```
GlueForeignKey: GlueCEUniqueID: test06.egi.cesga.es:8443/cream-pbs-GRID_ibergr
```

```
GlueClusterName: test06.egi.cesga.es
```

```
{{{
```

```
[root@ce2 etc]# ldapsearch -x -H ldap://test06.egi.cesga.es:2170 -b o=grid | grep
```

```
GlueCEStateFreeCPUs
```

```
GlueCEStateFreeCPUs: 4
```



```
GlueCEStateFreeCPUs: 4
GlueCEStateFreeCPUs: 4
GlueCEStateFreeCPUs: 4
```

```
}}}
```

```
==== Checking if ssh works in bidirectional sense =====
```

```
* From WN to CE (OK)
```

```
{{{
```

```
[root@test14 ~]# su - dteam004
```

```
[dteam004@test14 ~]$ ssh test06.egi.cesga.es
```

```
[dteam004@test06 ~]$
```

```
}}}
```

```
==== Trying some internal commands =====
```

```
{{{
```

```
[root@test06 etc]# qstat -B
```

Server	Max	Tot	Que	Run	Hld	Wat	Trn	Ext	Status
test06.egi.cesga	0	0	0	0	0	0	0	0	Active

```
-----
```

```
[root@test06 etc]# qstat -Q
```

Queue	Max	Tot	Ena	Str	Que	Run	Hld	Wat	Trn	Ext	T
GRID_ops	0	0	yes	yes	0	0	0	0	0	0	E
GRID_dteam	0	0	yes	yes	0	0	0	0	0	0	E
GRID_opsibeu	0	0	yes	yes	0	0	0	0	0	0	E
GRID_iberibeu	0	0	yes	yes	0	0	0	0	0	0	E

```
-----
```

```
}}}
```

```
* Submitting a direct qsub
```

```
{{{
```

```
[opssgm004@test06 ~]$ vi test.sh  
[opssgm004@test06 ~]$ chmod +x test.sh  
[opssgm004@test06 ~]$ qsub -q GRID_ops -l nodes=test14.egi.cesga.es test.sh  
0.test06.egi.cesga.es  
[opssgm004@test06 ~]$ ls  
test.sh test.sh.e0 test.sh.o0  
[opssgm004@test06 ~]$ cat test.sh.e0  
[opssgm004@test06 ~]$ cat test.sh.o0  
test14.egi.cesga.es  
Tue Jul 24 09:29:48 CEST 2012
```

```
}}}
```

```
(!)
```

```
===== Submitting a job from the CESGA UI =====
```

```
{{{
```

```
[esfreire@test13 ~]$ glite-ce-delegate-proxy -e test06.egi.cesga.es esfreire  
Proxy with delegation id [esfreire] succesfully delegated to endpoint  
[test06.egi.cesga.es]
```

```
[esfreire@test13 ~]$ glite-ce-proxy-renew -e test06.egi.cesga.es esfreire  
Proxy with delegation id [esfreire succesfully renewed to endpoint [test06.egi.cesga.es]  
}}}
```

```
{{{
```

```
[esfreire@test13 ~]$ glite-ce-job-submit -D esfreire -r test06.egi.cesga.es:8443/cream-  
pbs-GRID_dteam testCream1.jdl  
https://test06.egi.cesga.es:8443/CREAM963737516
```

```
[esfreire@test13 ~]$ glite-ce-job-status  
https://test06.egi.cesga.es:8443/CREAM963737516
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM963737516]  
      Status    = [DONE-OK]  
      ExitCode  = [0]  
}}}
```

```
===== Checking edg-apel-sge-parser crond =====
```

```
{{{
```

```
[root@test06 etc]# export APEL_HOME=""  
[root@test06 etc]# /usr/bin/apel-pbs-log-parser -f /etc/glite-apel-pbs/parser-config-  
yaim.xml  
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Read-in configuration: [quiet, p,  
inspectTables, c, e, recursiveEventFiles, b, recursiveBlahdFiles] [DBPassword=****,  
site=CESGA-EGEE, pbslog=/var/torque/server_priv/accounting,
```

GIIS=test06.egi.cesga.es, Cehost=test06.egi.cesga.es, blahdlogPrefix=blahp.log-,
DBURL=jdbc:mysql://test07.egi.cesga.es:3306/accounting, DBUsername=accounting,
timeZone=UTC, blahdlog=/var/log/cream/accounting]
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - ----- Starting the apel application

Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - **** APEL is examining the
schema ****
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Checking the LcgRecords table
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - The LcgRecords schema is up-to-
date
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Checking the BlahdRecords table
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - The BlahdRecords schema is up-
to-date
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Checking the LcgProcessedFiles
table
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - The LcgProcessedFiles schema is
up-to-date
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Checking the SpecRecords table
for patch 28593
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Checking the SpecRecords table
for patch 65723
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - The SpecRecords schema is up-
to-date
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Checking the GkRecords table
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - The GkRecords schema is up-to-
date
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Checking the MessageRecords
table
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - The MessageRecords schema is
up-to-date
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - **** Schema checks complete

Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Finding CPU spec values from
GIIS server: test06.egi.cesga.es
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - LDAP URL:
ldap://test06.egi.cesga.es:2170
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - The ClusterId : SpecInt pair are
latest, no update required test06.egi.cesga.es:8443/cream-pbs-GRID_dteam:2395
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - The ClusterId : SpecInt pair are
latest, no update required test06.egi.cesga.es:8443/cream-pbs-GRID_ops:2395
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - The ClusterId : SpecInt pair are
latest, no update required test06.egi.cesga.es:8443/cream-pbs-GRID_iberibeu:2395
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - The ClusterId : SpecInt pair are
latest, no update required test06.egi.cesga.es:8443/cream-pbs-GRID_opsibeu:2395
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Reprocess disabled, checking new
event logs only
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - **** Updating PBS end event
table (EventRecords) ****
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Ignoring already processed event
log file: test06.egi.cesga.es /var/torque/server_priv/accounting/20120723

Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Processing batch log file:
test06.egi.cesga.es /var/torque/server_priv/accounting/20120724
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Event records inserted: 4
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Checking the BlahdRecords table
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - The BlahdRecords schema is up-
to-date
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Reprocess disabled, checking new
event logs only
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Processing
/var/log/cream/accounting/blahp.log-20120723
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Processing
/var/log/cream/accounting/blahp.log-20120724
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - Blahd records inserted: 22
Tue Jul 24 08:07:51 UTC 2012: apel-pbs-log-parser - ----- Processing finished -----
}}}

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):

- Review criteria xxxx
- Add criteria xxxx

Comments for SR (TSA1.3):

Comments for DMSU (TSA2.5):

Comments for TP: