

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

Name of the component			
Release	emi.cream.sl5.x86_64-1.13.5	RT Ticket	#4341
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	04/10/12
Verification start date	04/10/12	Verification end date	04/10/12

Summary:

emi.cream.sl5.x86_64-1.13.5 was updated from UMD-1 without any 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	Accept	Test	Comments
DOCUMENTATION QC			
GENERIC_DOC_1 (Functional Description)	Optional		
GENERIC_DOC_2 (Release Notes)	Y	VLD	https://rt.egi.eu/rt/Ticket/Display.html?id=4341
GENERIC_DOC_3 (User Documentation)	Y	VLD	https://wiki.italiangrid.it/twiki/bin/view/CREAM/UserGuideEMI2
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/SystemAdministratorGuideForEMI2
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 testing)	Y	VLD	https://rt.egi.eu/rt/Ticket/Display.html?id=4341
SOFTWARE DISTRIBUTION QC			
GENERIC_DIST_1 (Source Code Availability)	Y	VLD	
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	
SOFTWARE FEATURES QC			
GENERIC_SOFT_1 (Backwards Compatibility)	Y	VLD	
GENERIC_SOFT_2 (New features testing)	Y	VLD	
SERVICE CRITERIA QC			
GENERIC_SERVICE_1 (Service control and status)	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 Password Configuration)	Y	VLD	
SECURITY QC			
GENERIC_SEC_1 (World Writable Files)	Y	VLD	
GENERIC_SEC_3 (Passwords in world readable files)	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 definition)	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/output)	Y	VLD	
JOBEXEC_JOB_3 (Cancel Job)	Y	VLD	
JOBEXEC_EXECMNGR_1 (Not Invasive Dependencies)	Y	VLD	
JOBEXEC_EXECMNGR_2 (Job Management)	Y	VLD	
JOBEXEC_EXECMNGR_3 (Information Retrieval)	Y	VLD	
JOBEXEC_AVAIL_1 (Service Redundancy)	Y	VLD	
JOBEXEC_AVAIL_2 (Self Disabling Mechanism)	Optional		
JOBEXEC_AVAIL_4 (Timely Job Status Update)	Optional		
PARALLEL JOB QC			
PARALLEL_JOB_1 (Simple parallel job submission)	Y	VLD	
PARALLEL_JOB_2 (Single machine parallel job submission)	Optional		
PARALLEL_JOB_3 (Fine grained mapping parallel job submission)	Optional		
MONITORING PROBES QC			
MON_PROBE_GENERIC_1 (Certificate Lifetime)	Optional		
MON_PROBE_GENERIC_2 (Service Probe)	Optional		
MON_PROBE_JOBEXEC_1 (Job Execution Failure)	Y	VLD	

Validator comments:

emi.cream.sl5.x86_64-1.13.5 was updated from UMD-1 without any issue.

== EMI.cream.sl5.x86_64-1.13.5 ==
=== Ticket assigned ===

* [[<https://rt.egi.eu/rt/Ticket/Display.html?id=4341>]]

=== Repositories ===

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

```
{{{
# EGI Software Repository - REPO META (releaseId,repositoryId,repofileId) -
(4341,690,617)
```

```
[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_64/1/13/5/
enabled=1
protect=1
priority=1
gpgcheck=1
gpgkey=http://emisoft.web.cern.ch/emisoft/dist/EMI/1/RPM-GPG-KEY-emi
}}}
```

=== Installing ===

==== Updating =====

```
* yum update
{{{
```

```
=====
=====
=====
```

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

Updating:

glite-ce-cream	noarch	1.13.5-1.sl5
EMI.cream.sl5.x86_64	5.7 M	
glite-ce-cream-api-java	noarch	1.13.3-1.sl5
EMI.cream.sl5.x86_64	282	

Transaction Summary

```
=====  
=====  
=====  
=====  
=====  
}}}
```

```
{{{
```

```
==== Configuration of a CREAM CE node in no cluster mode =====
```

```
==== Configure the siteinfo.def file =====
```

* 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]]

```
===== Configuring with YAIM =====
```

```
{{{
```

```
[root@test06 etc]# /opt/glite/yaim/bin/yaim -c -s site-info.def -n creamCE -n  
TORQUE_server -n TORQUE_utils
```

```
[ ..... ]
```

```
Stopping glite-lb-logd ... not running
```

```
Stopping glite-lb-interlogd ... not running
```

```
Starting glite-lb-logd ... This is LocalLogger, part of Workload Management System in  
EU DataGrid & EGEE.
```

```
done
```

```
Warning: stale /var/cream_lb/glite-lb-interlogd.pid for glite-lb-interlogd
```

```
Warning: stale /tmp/interlogger.sock for glite-lb-interlogd
```

```
Starting glite-lb-interlogd ... done
```

```
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
```

```
INFO: Re-starting the torque server
```

```
Shutting down TORQUE Server: [ OK ]
```

```
/var/torque/server_priv/serverdb
```

```
Starting TORQUE Server: [ OK ]
```

```
Max open servers: 9
```

```
set server scheduling = True
```

```
set server acl_host_enable = False
```

```
set server managers = root@test06.egi.cesga.es
```

```
set server operators = root@test06.egi.cesga.es
```

```
set server default_queue = dteam
```

```
set server log_events = 511
```

```
set server mail_from = adm
set server mail_domain = never
set server query_other_jobs = True
set server scheduler_iteration = 600
set server default_node = lcgpro
set server node_pack = False
set server kill_delay = 10
Max open servers: 9
set queue GRID_ops queue_type = Execution
set queue GRID_ops resources_max.cput = 48:00:00
set queue GRID_ops resources_max.walltime = 72:00:00
set queue GRID_ops enabled = True
set queue GRID_ops started = True
set queue GRID_ops acl_group_enable = True
Max open servers: 9
set queue GRID_dteam queue_type = Execution
set queue GRID_dteam resources_max.cput = 48:00:00
set queue GRID_dteam resources_max.walltime = 72:00:00
set queue GRID_dteam enabled = True
set queue GRID_dteam started = True
set queue GRID_dteam acl_group_enable = True
Max open servers: 9
set queue GRID_opsibeu queue_type = Execution
set queue GRID_opsibeu resources_max.cput = 48:00:00
set queue GRID_opsibeu resources_max.walltime = 72:00:00
set queue GRID_opsibeu enabled = True
set queue GRID_opsibeu started = True
set queue GRID_opsibeu acl_group_enable = True
Max open servers: 9
set queue GRID_iberibeu queue_type = Execution
set queue GRID_iberibeu resources_max.cput = 48:00:00
set queue GRID_iberibeu resources_max.walltime = 72:00:00
set queue GRID_iberibeu enabled = True
set queue GRID_iberibeu started = True
set queue GRID_iberibeu acl_group_enable = True
Shutting down TORQUE Server: [ OK ]
/var/torque/server_priv/serverdb
Starting TORQUE Server: [ OK ]
  INFO: Executing function: config_mai_cfg_setenv
  INFO: Executing function: config_mai_cfg
  INFO: configuring maui ...
creamCE TORQUE_server TORQUE_utils
Shutting down MAUI Scheduler: [ OK ]
Starting MAUI Scheduler: [ OK ]
  INFO: Executing function: config_apel_pbs_setenv
  INFO: Executing function: config_apel_pbs
  INFO: Executing function: config_gip_sched_plugin_pbs_setenv
  INFO: Executing function: config_gip_sched_plugin_pbs
  INFO: Executing function: config_torque_submitter_ssh
Reloading sshd: [ OK ]
```

INFO: Configuration Complete.
INFO: YAIM terminated succesfully.

[OK]

}}}

==== TESTING ====

==== 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
```

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

server: test06.egi.cesga.es

```
Queue          Memory CPU Time Walltime Node Run Que Lm State
-----
GRID_ibergrid  -- 48:00:00 72:00:00 -- 0 0 -- E R
GRID_ops       -- 48:00:00 72:00:00 -- 0 0 -- E R
GRID_dteam     -- 48:00:00 72:00:00 -- 0 0 -- E R
GRID_opsibeu   -- 48:00:00 72:00:00 -- 0 0 -- E R
GRID_iberibeu  -- 48:00:00 72:00:00 -- 0 0 -- E R
-----
0 0
```

}}}

* Submitting a direct qsub

```
{}  
[root@test06 etc]# su - opssgm004  
[opssgm004@test06 ~]$ vi test.sh  
[opssgm004@test06 ~]$ sh -x test.sh  
+ hostname  
test06.egi.cesga.es  
+ date  
Tue May 31 10:30:59 CEST 2011
```

```
[opssgm004@test06 ~]$ qsub -q GRID_ops -l nodes=test14.egi.cesga.es test.sh  
299.test06.egi.cesga.es  
[opssgm004@test06 ~]$ qstat  
[opssgm004@test06 ~]$ ls  
test.sh test.sh.e299 test.sh.o299  
[opssgm004@test06 ~]$ cat test.sh.e299  
[opssgm004@test06 ~]$ cat test.sh.o299  
test14.egi.cesga.es  
Thu Oct 4 13:11:02 CEST 2012  
}}
```

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

```
{}  
[esfreire@test13 ~]$ glite-ce-delegate-proxy -e test06.egi.cesga.es esfreire  
2012-10-04 13:11:37,452 NOTICE - Proxy with delegation id [esfreire] succesfully  
delegated to endpoint [https://test06.egi.cesga.es:8443//ce-cream/services/gridsite-  
delegation]
```

```
[esfreire@test13 ~]$ glite-ce-proxy-renew -e test06.egi.cesga.es esfreire  
2012-10-04 13:11:49,229 NOTICE - Proxy with delegation id [esfreire] succesfully  
renewed to endpoint [https://test06.egi.cesga.es:8443//ce-cream/services/gridsite-  
delegation]  
}}
```

```
{}  
[esfreire@test13 ~]$ glite-ce-job-submit -D esfreire -r test06.egi.cesga.es:8443/cream-  
pbs-GRID_ops testCream1.jdl  
https://test06.egi.cesga.es:8443/CREAM119987370  
}}
```

```
{}  
[esfreire@test13 ~]$ glite-ce-job-status  
https://test06.egi.cesga.es:8443/CREAM119987370
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM119987370]  
Status = [RUNNING]
```

```
[esfreire@test13 ~]$ glite-ce-job-status
https://test06.egi.cesga.es:8443/CREAM119987370
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM119987370]
        Status    = [REALLY-RUNNING]
```

```
[esfreire@test13 ~]$ glite-ce-job-status
https://test06.egi.cesga.es:8443/CREAM119987370
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM119987370]
        Status    = [DONE-OK]
        ExitCode   = [0]
}}}
```

```
* Nagios tests OK, https://test23.egi.cesga.es/nagios/cgi-bin/status.cgi?
host=test06.egi.cesga.es
```

```
==== Checking bug #95480, CREAM doesn't transfert the output ====
```

```
* https://savannah.cern.ch/bugs/?95480
```

```
{{{
```

```
[esfreire@test13 ~]$ cat check_bug.jdl
```

```
[
Executable    = "hola.sh";
StdOutput     = "esfreire.out";
StdError      = "esfreire.err";
InputSandbox  = {"hola.sh"};
OutputSandbox = {"esfreire.out","esfreire.err"};
SANDBOX_TRANSFER_METHOD="LRMS";
OutputSandboxBaseDestUri = "gsiftp://se2.egi.cesga.es/tmp";
]
}}}
```

```
{{{
```

```
[esfreire@test13 ~]$ glite-ce-job-submit -D esfreire -r test06.egi.cesga.es:8443/cream-
pbs-GRID_ops check_bug.jdl
https://test06.egi.cesga.es:8443/CREAM223700239
}}}
```

```
{{{
```

```
[esfreire@test13 ~]$ glite-ce-job-status
https://test06.egi.cesga.es:8443/CREAM223700239
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM223700239]
        Status    = [RUNNING]
```



```
[esfreire@test13 ~]$ glite-ce-job-status  
https://test06.egi.cesga.es:8443/CREAM223700239
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM223700239]  
        Status    = [REALLY-RUNNING]
```

```
[esfreire@test13 ~]$ glite-ce-job-status  
https://test06.egi.cesga.es:8443/CREAM223700239
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM223700239]  
        Status    = [DONE-OK]  
        ExitCode   = [0]  
}}}
```

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: