

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

Name of the component			
Release	<b>EMI.cream.sl5.x86_64-1.14.1</b>	RT Ticket	#4395
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	<b>Verified</b>	Date	17/10/12
Verification start date	17/10/12	Verification end date	17/10/12

**Summary:**

**EMI.cream.sl5.x86\_64-1.14.1 was updated from UMD-2 without any issue.**

The only important think to comment is that I had to follow the workaround described on <https://wiki.italiangrid.it/twiki/bin/view/CREAM/KnownIssues>

```

{{
Authorization problem with argus (pkcs#8 keys). Problem is related with
a known bug in bouncycastle,
http://www.bouncycastle.org/jira/browse/BJA-400, which prevents the
CREAM authorization to be correctly initialized if the format of private
key is pkcs#8 instead of the old format (pkcs#1).
o <https://ggus.eu/tech/ticket_show.php?ticket=83329>
+ Workaround: re-process the private key on SL6 with the
following command: "openssl rsa -in hostkey.pem -out
newhostkey.pem"

```

```

}}

```

**GGUS Tickets:**

**Summary of Quality Criteria verification:**

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

## Quality Criteria verification cheatsheet:

Criteria	Accept	Test	Comments
<b>DOCUMENTATION QC</b>			
GENERIC_DOC_1 (Functional Description)	Optional		
GENERIC_DOC_2 (Release Notes)	Y	VLD	<a href="https://rt.egi.eu/rt/Ticket/Display.html?id=4395">https://rt.egi.eu/rt/Ticket/Display.html?id=4395</a>
GENERIC_DOC_3 (User Documentation)	Y	VLD	<a href="https://wiki.italiangrid.it/twiki/bin/view/CREAM/UserGuideEMI2">https://wiki.italiangrid.it/twiki/bin/view/CREAM/UserGuideEMI2</a>
GENERIC_DOC_4 (Online help (man pages))	Y	VLD	<a href="https://wiki.italiangrid.it/twiki/bin/view/CREAM/UserGuideEMI2#Man_pages_for_CREAM_Command_Line">https://wiki.italiangrid.it/twiki/bin/view/CREAM/UserGuideEMI2#Man_pages_for_CREAM_Command_Line</a>
GENERIC_DOC_5 (API Documentation)	Y	VLD	<a href="https://wiki.italiangrid.it/twiki/bin/view/CREAM/DevelopersDocumentation">https://wiki.italiangrid.it/twiki/bin/view/CREAM/DevelopersDocumentation</a>
GENERIC_DOC_6 (Administrator Documentation)	Y	VLD	<a href="https://wiki.italiangrid.it/twiki/bin/view/CREAM/SystemAdministratorGuideForEMI2">https://wiki.italiangrid.it/twiki/bin/view/CREAM/SystemAdministratorGuideForEMI2</a>
GENERIC_DOC_7 (Service Reference Card)	Y	VLD	<a href="https://wiki.italiangrid.it/twiki/bin/view/CREAM/ServiceReferenceCardEMI2">https://wiki.italiangrid.it/twiki/bin/view/CREAM/ServiceReferenceCardEMI2</a>
GENERIC_DOC_8 (Software License)	Y	VLD	Emi-cream: Apache Software License 2.0
GENERIC_DOC_9 (Release changes testing)	Y	VLD	<a href="https://rt.egi.eu/rt/Ticket/Display.html?id=4395">https://rt.egi.eu/rt/Ticket/Display.html?id=4395</a>
<b>SOFTWARE DISTRIBUTION QC</b>			
GENERIC_DIST_1 (Source Code Availability)	Y	VLD	
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	
<b>SOFTWARE FEATURES QC</b>			
GENERIC_SOFT_1 (Backwards Compatibility)	Y	VLD	
GENERIC_SOFT_2 (New features testing)	Y	VLD	
<b>SERVICE CRITERIA QC</b>			
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 Control)	Y	VLD	
<b>SECURITY QC</b>			
GENERIC_SEC_1 (World Writable Files)	Y	VLD	
GENERIC_SEC_3 (Passwords in world readable files)	Y	VLD	
<b>MISCELLANEOUS QC</b>			
GENERIC_MISC_2 (Bug Tracking System)	Y	VLD	GGUS
<b>AUTHENTICATION QC</b>			
AUTHN_IFACE_1 (X.509 Certificate support)	Y	VLD	
AUTHN_DELEG_1 (Delegation Interface)	Y	VLD	
<b>AUTHORISATION QC</b>			
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	
<b>JOB EXECUTION QC</b>			
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		
<b>PARALLEL JOB QC</b>			
PARALLEL_JOB_1 (Simple parallel job submission)	Y	VLD	
PARALLEL_JOB_2 (Single machine parallel job)	Optional		
PARALLEL_JOB_3 (Fine grained mapping parallel job)	Optional		
<b>MONITORING PROBES QC</b>			
MON_PROBE_GENERIC_1 (Certificate Lifetime)	Optional		
MON_PROBE_GENERIC_2 (Service Probe)	Optional		
MON_PROBE_JOBEXEC_1 (Job Execution Probe)	Y	VLD	

**Validator comments:**

EMI.cream.sl5.x86\_64-1.14.1 was updated from UMD-2 without any issue.

== EMI.cream.sl6.x86\_64-1.14.1 ==

=== Ticket assigned ===

\* [[<https://rt.egi.eu/rt/Ticket/Display.html?id=4395>]]

=== Repositories ===

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

{{{

```
[root@test06 yum.repos.d]# cat EMI.cream.sl5.x86_64.repo
# EGI Software Repository - REPO META (releaseId,repositoryId,repofileId) -
(4387,702,629)
```

```
[EMI.cream.sl5.x86_64]
name=EMI.cream.sl5.x86_64
baseurl=http://admin-repo.egi.eu/sw/unverified/umd-2.emi.cream.sl5.x86_64/1/14/1/
enabled=1
protect=1
priority=1
gpgcheck=1
gpgkey=http://emisofw.web.cern.ch/emisofw/dist/EMI/2/RPM-GPG-KEY-emi
}}}
```

=== Installing ===

==== Updating =====

\* yum update

{{{

=====

=====

Package	Arch	Version
Repository	Size	

=====

=====

=====

Installing:		
kernel	x86_64	2.6.32-279.9.1.el6
sl-security	25 M	
Updating:		
bdi	noarch	5.2.12-1.el6
UMD-2-updates	22 k	

bind-libs	x86_64	32:9.8.2-
0.10.rc1.el6_3.5	sl-security	870 k
bind-utils	x86_64	32:9.8.2-
0.10.rc1.el6_3.5	sl-security	181 k
dbus	x86_64	1:1.2.24-7.el6_3
sl-security	206 k	
dbus-libs	x86_64	1:1.2.24-7.el6_3
sl-security	126 k	
dynsched-generic	noarch	2.4.1-1.sl6
EMI.cream.sl6.x86_64	44 k	
emi-trustmanager	noarch	3.1.4-1.sl6
EMI.cream.sl6.x86_64	249 k	
emi-version	x86_64	2.3.0-1.sl6
UMD-2-updates	2.2 k	
ghostscript	x86_64	8.70-14.el6_3.1
sl-security	4.4 M	
glite-ce-cream	noarch	1.14.1-1.sl6
EMI.cream.sl6.x86_64	532 k	
glite-ce-cream-api-java	noarch	1.14.1-2.sl6
EMI.cream.sl6.x86_64	2.4 M	
glite-ce-cream-core	noarch	1.14.1-1.sl6
EMI.cream.sl6.x86_64	394 k	
glite-ce-cream-es	noarch	1.14.1-1.sl6
EMI.cream.sl6.x86_64	58 k	
glite-ce-cream-utils	x86_64	1.2.1-0.sl6
EMI.cream.sl6.x86_64	33 k	
glite-info-provider-service	noarch	1.9.0-5.el6
UMD-2-updates	61 k	
glite-yaim-bdii	noarch	4.3.11-1.el6
UMD-2-updates	10 k	
globus-gridftp-server	x86_64	6.14-1.el6
epel	154 k	
globus-gridftp-server-control	x86_64	2.7-1.el6
epel	71 k	
globus-gridftp-server-progs	x86_64	6.14-1.el6
epel	45 k	
glue-schema	noarch	2.0.8-2.el6
UMD-2-updates	31 k	
gridsite-libs	x86_64	1.7.22-2.el6
UMD-2-updates	87 k	
kernel-firmware	noarch	2.6.32-
279.9.1.el6	sl-security	8.7 M
libxml2	x86_64	2.7.6-8.el6_3.3
sl-security	797 k	
openjpeg-libs	x86_64	1.3-9.el6_3
sl-security	58 k	
selinux-policy	noarch	3.7.19-
155.el6_3.4	sl-security	1.3 M
selinux-policy-targeted	noarch	3.7.19-
155.el6_3.4	sl-security	2.6 M

tzdata	noarch	2012f-1.el6
sl-security	448 k	
tzdata-java	noarch	2012f-1.el6
sl-security	153 k	
Removing:		
kernel	x86_64	2.6.32-220.17.1.el6
@sl-security/6.2	112 M	

### 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](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 /opt/glite/yaim/etc/site-info.def -n
MPI_CE -n creamCE -n TORQUE_server -n TORQUE_utils
```

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

```
Stopping BDII update process: [ OK ]
```

```
Stopping BDII slapd: [ OK ]
```

```
Starting BDII slapd: [ OK ]
```

```
Starting BDII update process: [ OK ]
```

```
INFO: Executing function: config_cream_gip_info_dynamic_setenv
```

```
INFO: Executing function: config_cream_gip_info_dynamic
```

```
INFO: Executing function: config_cream_gip_setenv
```

```
INFO: Executing function: config_cream_gip
```

```
WARNING: Queue GRID_ops was enabled for one or more FQANs which specify an
entire VO
```

```
WARNING: Queue GRID_dteam was enabled for one or more FQANs which specify
an entire VO
```

```
WARNING: Queue GRID_opsibeu was enabled for one or more FQANs which
specify an entire VO
```

WARNING: Queue GRID\_opsibeu was enabled for one or more FQANs which specify an entire VO

WARNING: Queue GRID\_iberibeu was enabled for one or more FQANs which specify an entire VO

WARNING: Queue GRID\_iberibeu was enabled for one or more FQANs which specify an entire VO

INFO: Executing function: config\_cream\_gip\_glue2\_setenv

INFO: Executing function: config\_cream\_gip\_glue2

SE\_LIST=test08.egi.cesga.es

INFO: File /etc/glite-ce-glue2/glite-ce-glue2.conf backed-up in /etc/glite-ce-glue2/glite-ce-glue2.conf.bak\_20121016\_154902

INFO: Executing function: config\_cream\_gip\_scheduler\_plugin\_setenv

INFO: Executing function: config\_cream\_gip\_scheduler\_plugin

INFO: Executing function: config\_cream\_gip\_software\_plugin\_setenv

INFO: Executing function: config\_cream\_gip\_software\_plugin

INFO: Executing function: config\_cream\_vo\_tag\_dir

INFO: Executing function: config\_info\_service\_cream\_ce\_setenv

INFO: Executing function: config\_info\_service\_cream\_ce

INFO: Executing function: config\_info\_service\_cemon\_setenv

INFO: Executing function: config\_info\_service\_cemon

INFO: Executing function: config\_cream\_info\_service\_rtepublish\_setenv

INFO: Executing function: config\_cream\_info\_service\_rtepublish

INFO: Executing function: config\_cream\_cemon\_setenv

INFO: Executing function: config\_cream\_cemon

Stopping tomcat6: [ OK ]

Starting tomcat6: [ OK ]

INFO: Executing function: config\_cream\_gliteservices\_setenv

INFO: Executing function: config\_cream\_gliteservices

INFO: Executing function: config\_cream\_locallogger\_setenv

INFO: Executing function: config\_cream\_locallogger

INFO: Executing function: config\_glite\_locallogger\_setenv

INFO: Executing function: config\_glite\_locallogger

INFO: The workaround for bug 22389 already exists

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\_cream\_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/lib/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
set server authorized_users = *@test06.egi.cesga.es
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/lib/torque/server_priv/serverdb
Starting TORQUE Server: [ OK ]
  INFO: Executing function: config_mai_cfg_setenv
  INFO: Executing function: config_mai_cfg
  INFO: configuring maui ...
MPI_CE 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
Starting MUNGE: munged
Reloading sshd: [ OK ]
INFO: Configuration Complete. [ OK ]
INFO: YAIM terminated successfully.

}}}
```

(!) I had to follow the workaround described on  
<https://wiki.italiangrid.it/twiki/bin/view/CREAM/KnownIssues>

```
{{
Authorization problem with argus (pkcs#8 keys). Problem is related with
a known bug in bouncycastle,
http://www.bouncycastle.org/jira/browse/BJA-400, which prevents the
CREAM authorization to be correctly initialized if the format of private
key is pkcs#8 instead of the old format (pkcs#1).
```

- \*
  - o <[https://ggus.eu/tech/ticket\\_show.php?ticket=83329](https://ggus.eu/tech/ticket_show.php?ticket=83329)>  
+ Workaround: re-process the private key on SL6 with the  
following command: "openssl rsa -in hostkey.pem -out  
newhostkey.pem"

```
}}}
```

```
{{{
I had to do is delete the head for the following certificates
"tomcat-cert.pem" and "tomcat-key.pem" and then restart "gLite" service.
About deleted the head in both certificates, I am referring to just
leave the following lines and the "data" included between these lines:
```

```
-----BEGIN CERTIFICATE-----
```

```
-----END CERTIFICATE-----
```

```
-----BEGIN RSA PRIVATE KEY-----
```

```
-----END RSA PRIVATE KEY-----
```

```
}}}
```

```
=== 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 Oct 16 15:52:21 CEST 2012
```

```
[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
2012-10-16 16:12:21,996 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
2012-10-16 16:12:50,733 NOTICE - Proxy with delegation id [esfreire] succesfully
renewed to endpoint [https://test06.egi.cesga.es:8443//ce-cream/services/gridsite-
delegation]
[esfreire@test13 ~]$
}}
```

```
{
[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/CREAM725938692
```

```
[esfreire@test13 ~]$ glite-ce-job-status
https://test06.egi.cesga.es:8443/CREAM725938692
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM725938692]
      Status    = [DONE-OK]
      ExitCode   = [0]

}}
```

```
===== 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/CREAM244495698
```

```
[esfreire@test13 ~]$ glite-ce-job-status
https://test06.egi.cesga.es:8443/CREAM244495698
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM244495698]
      Status    = [DONE-OK]
      ExitCode  = [0]
```

```
}}}
```

```
{
[root@se2 tmp]# cat esfreire.err
[root@se2 tmp]# cat esfreire.out
test15.egi.cesga.es
```

```
}}}
```

## 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):

The only important think to comment is that I had to follow the workaround described on <https://wiki.italiangrid.it/twiki/bin/view/CREAM/KnownIssues>

```
{{
Authorization problem with argus (pkcs#8 keys). Problem is related with
a known bug in bouncycastle,
http://www.bouncycastle.org/jira/browse/BJA-400, which prevents the
CREAM authorization to be correctly initialized if the format of private
key is pkcs#8 instead of the old format (pkcs#1).
o <https://ggus.eu/tech/ticket\_show.php?ticket=83329>
+ Workaround: re-process the private key on SL6 with the
following command: "openssl rsa -in hostkey.pem -out
newhostkey.pem"
}}
```

### Comments for DMSU (TSA2.5):

### Comments for TP: