

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

Name of the component	dCache		
Release	1.9.13,	RT Ticket	3319
Software Provider	EMI		
Release Contact	Name:	E-Mail	
	Cristina Aiftimiei	cristina.aiftimiei@pd.infn.it	
Validator	Name:	E-Mail	
	Alvaro Simon	asimon@cesga.es	
V. Hours Worked	6		
Component status	<b>Verified</b>	Date	18/04/12
Verification start date	17/04/12	Verification end date	18/04/12

**Summary:**  
**dCache 1.9.13 was verified without problems. The service was restarted after a yum update.**

**GGUS Tickets:**  
**None**

**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	0/2	0	20
	Specific Quality Criteria			
<b>TP</b>				
<b>VLD</b>	21	0	0	21

## Quality Criteria verification cheatsheet:

Criteria	Accepted (Y/N/NA)	Tested (TP/VLD)	Comments
<b>Generic QC</b>			
GENERIC_DOC_1 (Functional Description)	Y	VLD	Available at: <a href="http://www.dcache.org/manuals/Book-1.9.12/index">http://www.dcache.org/manuals/Book-1.9.12/index</a>
GENERIC_DOC_2 (Release Notes)	Y	VLD	<a href="http://www.eu-emi.eu/emi-1-kebnekaise-updates/-/asset_publicis">http://www.eu-emi.eu/emi-1-kebnekaise-updates/-/asset_publicis</a>
GENERIC_DOC_3 (User Documentation)	Y	VLD	User documentation: <a href="http://www.dcache.org/manuals/Book-1.9.12/">http://www.dcache.org/manuals/Book-1.9.12/</a>
GENERIC_DOC_4 (Online help (man pages))	Y	VLD	<a href="http://www.dcache.org/manuals/">http://www.dcache.org/manuals/</a>
GENERIC_DOC_5 (API Documentation)	Y	VLD	<a href="http://www.dcache.org/manuals/libdcap.shtml">http://www.dcache.org/manuals/libdcap.shtml</a>
GENERIC_DOC_6 (Administrator Documentation)	Y	VLD	<a href="http://www.dcache.org/manuals/Book-1.9.12/">http://www.dcache.org/manuals/Book-1.9.12/</a>
GENERIC_DOC_7 (Service Reference Card)	Y	VLD	<a href="https://twiki.cern.ch/twiki/bin/view/EMI/DCacheServerServiceRe">https://twiki.cern.ch/twiki/bin/view/EMI/DCacheServerServiceRe</a>
GENERIC_DOC_8 (Software License)	Y	VLD	<a href="http://www.dcache.org/manuals/dCacheSoftwareLicence.html">http://www.dcache.org/manuals/dCacheSoftwareLicence.html</a>
GENERIC_DOC_9 (Release changes testing)	Y	VLD	
GENERIC_DIST_1 (Source Code Availability)	N	VLD	dCache is free but not Open Source.
GENERIC_DIST_2 (Source Distribution)	Y	VLD	
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	<a href="http://www.dcache.org/downloads/1.9/index.shtml#server-1.9.5">http://www.dcache.org/downloads/1.9/index.shtml#server-1.9.5</a>
GENERIC_SERVICE_1 (Service control and status)	Y	VLD	Available at /etc/init.d/dcache
GENERIC_SERVICE_2 (Log Files)	Y	VLD	Daemon service /var/log/dcache-server
GENERIC_SERVICE_3 (Service Reliability)	Y	VLD	
GENERIC_SERVICE_4 (Service Robustness)	Y	VLD	The configuration must be done by hand but the process is well documented.
GENERIC_SERVICE_4 (Automatic Configuration)	N	VLD	
GENERIC_SEC_1 (World Writable Files)	Y	VLD	
GENERIC_SEC_2 (Directory Traversal Attacks testing)	Y	VLD	
GENERIC_MISC_2 (Bug Tracking System)	Y	VLD	through GGUS
<b>Security Capabilities QC</b>			
AUTHN_IFACE_1 (X509 Certificate support)	Y	VLD	
AUTHN_IFACE_2 (SAML authentication)	Optional		
AUTHN_DELEG_1 (Delegation Interface)	TBD		
AUTHZ_PCYDEF_3 (Ban UserFQAN)	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>Information Capabilities QC</b>			
INFOMODEL_SCHEMA_1 (GlueSchema Support)	Y	VLD	
INFODISC_IFACE_1 (Information Discovery Interface)	Y	VLD	
<b>Storage Capabilities QC</b>			
FILEACC_API_1 (POSIX Read file access)	Y	VLD	
FILEACC_API_2 (POSIX Write file access)	Y	VLD	
FILETRANS_API_1 (GridFTP File Access)	Y	VLD	
FILETRANS_API_2 (HTTPS File Access)	Y	VLD	
FILETRANS_API_3 (WebDAV File Access)	Y	VLD	
STORAGE_API_1 (SRM API Support)	Y	VLD	
STORAGE_API_2 (LCG-UTILS test)	Y	VLD	
STORAGE_DEVICE_1 (Information retrieval)	Y	VLD	
STORAGE_DEVICE_2 (Fine grained authorization)	Y	VLD	
STORAGE_DEVICE_3 (Space reservations)	Y	VLD	
STORAGE_DEVICE_4 (Checksum )	Y	VLD	
STORAGE_SERVICE_1 (Error Messages)	Y	VLD	
<b>Operations Capabilities QC</b>			
MON_PROBE_GENERIC_2 (Service Probe)	Y	VLD	
MON_PROBE_STORAGE_1 (SRM Probes)	Y	VLD	

## Validator comments:

```
$ cat EMI.dcache.s15.x86_64.repo
```

```
# EGI Software Repository - REPO META (releaseId,repositoryId,repofileId) - (3319,411,333)
```

```
[EMI.dcache.s15.x86_64]
```

```
name=EMI.dcache.s15.x86_64
```

```
baseurl=http://admin-repo.egi.eu/sw/unverified/emi.dcache.s15.x86_64/1/9/15/
```

```
enabled=1
```

```
protect=1
```

```
gpgcheck=1
```

```
priority=5
```

```
gpgkey=http://emisoft.web.cern.ch/emisoft/dist/EMI/1/RPM-GPG-KEY-emi
```

```
# yum clean all
```

```
# yum update
```

```
Dependencies Resolved
```

```
=====
```

Package	Arch
Version	Repository
Size	

```
=====
```

```
Updating:
```

dcache-server	noarch
1.9.12-13	EMI.dcache.s15.x86_64
51 M	

```
Transaction Summary
```

```
=====
```

```
Install      0 Package(s)
```

```
Upgrade     1 Package(s)
```

Total download size: 51 M

Is this ok [y/N]:

```
# /etc/init.d/dcache-server start
```

```
Starting dCacheDomain done
```

```
# /etc/init.d/dcache-server status
```

```
DOMAIN      STATUS  PID  USER
```

```
dCacheDomain running 3119 dcache
```

```
# cd /etc/init.d
```

```
# sh -x postgresql start
```

```
# ldapsearch -x -H ldap://test12.egi.cesga.es:2170 -b o=grid
```

```
# extended LDIF
```

```
#
```

```
# LDAPv3
```

```
# base <o=grid> with scope subtree
```

```
# filter: (objectclass=*)
```

```
# requesting: ALL
```

```
#
```

```
# grid
```

```
dn: o=grid
```

```
objectClass: organization
```

```
o: grid
```

```
# local, grid
```

```
dn: Mds-Vo-name=local,o=grid
```

```
Mds-Vo-name: local
```

```
objectClass: Mds
```

```
# resource, grid
```

```
dn: Mds-Vo-name=resource,o=grid
```

```
Mds-Vo-name: resource
```

```
objectClass: Mds
```

```
..
```

```
..
```

```
srms commands
```

```
#srmcp -2 -debug srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest/test_umd3.out
```

```
OK
```

```
#srmls srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest
```

```
OK
```

```
# srmkdir -2 srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest/opssgm
```

```
OK
```

```
# srmls srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest
```

```
OK
```

```
# lcg-ls -l -b -D srmv2 srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest
```

```
OK
```

```
# srm-get-permissions -webservice_path=srm/v2/server srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest/test_umd3.out
```

```
OK
```

```
# srm-set-permissions -type=CHANGE -group=RWX -webservice_path=srm/v2/server srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest/test_umd3.out
```

OK

```
# srm-get-permissions -webservice_path=srm/v2/server srm://test12.egi.cesga.es:8443/srm/managerv2?  
SFN=/data/mytest/test_umd3.out
```

OK

```
# srm-check-permissions -webservice_path=srm/v2/server srm://test12.egi.cesga.es:8443/srm/managerv2?  
SFN=/data/mytest/test_umd3.out
```

OK

**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:**