

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

Name of the component	dCache		
Release	1.9.12-10	RT Ticket	2997
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	8		
Component status	Verified	Date	19/10/11
Verification start date	19/10/11	Verification end date	20/10/11

Summary:

dCache 1.9.12-10 was verified without problems. The documentation issue was solved (GGUS: https://ggus.eu/tech/ticket_show.php?ticket=72686) and now dCache book has a FHS version for EMI releases.

GGUS Tickets:

None

Summary of Quality Criteria verification:

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
TP				
VLD	18	0/2	0	20
	Specific Quality Criteria			
TP				
VLD	21	0	0	21

Quality Criteria verification cheatsheet:

Criteria	Accepted (Y/N/NA)	Tested (TP/VLD)	Comments
Generic QC			
GENERIC_DOC_1 (Functional Description)	Y	VLD	Available at: http://www.dcache.org/manuals/Book-1.9.12/
GENERIC_DOC_2 (Release Notes)	Y	VLD	http://www.eu-emi.eu/emi-1-kebnekaise-updates/-/asset_publisher/lr6g/content
GENERIC_DOC_3 (User Documentation)	Y	VLD	User documentation: http://www.dcache.org/manuals/Book-1.9.12/
GENERIC_DOC_4 (Online help (man pages))	Y	VLD	http://www.dcache.org/manuals/
GENERIC_DOC_5 (API Documentation)	Y	VLD	http://www.dcache.org/manuals/libdcap.shtml
GENERIC_DOC_6 (Administrator Documentation)	Y	VLD	http://www.dcache.org/manuals/Book-1.9.12/
GENERIC_DOC_7 (Service Reference Card)	Y	VLD	https://twiki.cern.ch/twiki/bin/view/EMI/DCacheServerServiceReferenceCard
GENERIC_DOC_8 (Software License)	Y	VLD	http://www.dcache.org/manuals/dCacheSoftwareLicence.html
GENERIC_DOC_9 (Release changes testing)	Y	VLD	http://www.eu-emi.eu/kebnekaise-products/-/asset_publisher/4BKc/content
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	http://www.dcache.org/downloads/1.9/index.shtml#server-1.9.5
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
Security Capabilities QC			
AUTHN_IFACE_1 (X.509 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	
Information Capabilities QC			
INFOMODEL_SCHEMA_1 (GlueSchema Support)	Y	VLD	
INFODISC_IFACE_1 (Information Discovery Interface)	Y	VLD	
Storage Capabilities QC			
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	
Operations Capabilities QC			
MON_PROBE_GENERIC_2 (Service Probe)	Y	VLD	
MON_PROBE_STORAGE_1 (SRM Probes)	Y	VLD	

Validator comments:

= Installation =

```
# wget http://admin-repo.egi.eu/sw/unverified/emi.dcache.sl5.x86\_64/1/9/14/repofiles/EMI.dcache.sl5.x86\_64.repo
```

```
# yum update
```

Dependencies Resolved

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

Package Repository	Arch	Size	Version
--------------------	------	------	---------

Installing:

kernel 274.3.1.e15 21 M	x86_64 sl-security		2.6.18-
-------------------------------	-----------------------	--	---------

Updating:

dcache-server EMI.dcache.sl5.x86_64	noarch	51 M	1.9.12-10
--	--------	------	-----------

Removing:

kernel 238.5.1.e15 93 M	x86_64 installed		2.6.18-
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Transaction Summary

```
=====
=====
=
Install      1 Package(s)
Upgrade      1 Package(s)
Remove       1 Package(s)
Reinstall    0 Package(s)
Downgrade    0 Package(s)
```

Total download size: 72 M

```
[root@test12 ~]# cd /etc/init.d
```

```
[root@test12 init.d]# sh -x postgresql start
```

```
+ PGVERSION=8.1.23
```

```
++ echo 8.1.23
```

```
++ sed 's/^\([0-9]*\.[0-9]*\).*$/\1/'
```

```
+ PGMAJORVERSION=8.1
```

```
+ . /etc/rc.d/init.d/functions
```

```
++ TEXTDOMAIN=initscripts
```

```
++ umask 022
```

```
++ PATH=/sbin:/usr/sbin:/bin:/usr/bin
```

```
++ export PATH
```

```
++ '[' -z '' ]'
```

```
++ COLUMNS=80
```

```
++ '[' -z '' ]'
```

```
+++ /sbin/consoletype
```

```
++ CONSOLETYPE=pty
```

```
++ '[' -f /etc/sysconfig/i18n -a -z '' ]'
```

```
++ . /etc/profile.d/lang.sh
```

```
+++ sourced=0
```

```
+++ for langfile in /etc/sysconfig/i18n '$HOME/.i18n'
+++ '[' -f /etc/sysconfig/i18n ']'
+++ . /etc/sysconfig/i18n
++++ LANG=en_US.UTF-8
++++ SYSFONT=latarcyrheb-sun16
+++ sourced=1
+++ for langfile in /etc/sysconfig/i18n '$HOME/.i18n'
+++ '[' -f /root/.i18n ']'
+++ '[' -n '' ']'
+++ '[' 1 = 1 ']'
+++ '[' -n en_US.UTF-8 ']'
+++ export LANG
+++ '[' -n '' ']'
+++ unset LC_ADDRESS
+++ '[' -n '' ']'
+++ unset LC_CTYPE
+++ '[' -n '' ']'
+++ unset LC_COLLATE
+++ '[' -n '' ']'
+++ unset LC_IDENTIFICATION
+++ '[' -n '' ']'
+++ unset LC_MEASUREMENT
+++ '[' -n '' ']'
+++ unset LC_MESSAGES
+++ '[' -n '' ']'
+++ unset LC_MONETARY
+++ '[' -n '' ']'
+++ unset LC_NAME
+++ '[' -n '' ']'
+++ unset LC_NUMERIC
+++ '[' -n '' ']'
+++ unset LC_PAPER
+++ '[' -n '' ']'
+++ unset LC_TELEPHONE
+++ '[' -n '' ']'
+++ unset LC_TIME
+++ '[' -n '' ']'
+++ unset LC_ALL
+++ '[' -n '' ']'
+++ unset LANGUAGE
+++ '[' -n '' ']'
+++ unset LINGUAS
+++ '[' -n '' ']'
+++ unset _XKB_CHARSET
+++ consoletype=pty
+++ '[' -z pty ']'
+++ '[' -n '' ']'
+++ '[' -n '' ']'
+++ '[' -n en_US.UTF-8 ']'
+++ case $LANG in
+++ '[' xterm = linux ']'
+++ unset SYSFONTACM SYSFONT
```

```
+++ unset sourced
+++ unset langfile
++ '[' -z '' ']'
++ '[' -f /etc/sysconfig/init ']'
++ . /etc/sysconfig/init
+++ BOOTUP=color
+++ GRAPHICAL=yes
+++ RES_COL=60
+++ MOVE_TO_COL='echo -en \033[60G'
+++ SETCOLOR_SUCCESS='echo -en \033[0;32m'
+++ SETCOLOR_FAILURE='echo -en \033[0;31m'
+++ SETCOLOR_WARNING='echo -en \033[0;33m'
+++ SETCOLOR_NORMAL='echo -en \033[0;39m'
+++ LOGLEVEL=3
+++ PROMPT=yes
+++ AUTOSWAP=no
++ '[' pty = serial ']'
++ '[' color != verbose ']'
++ INITLOG_ARGS=-q
++ __sed_discard_ignored_files='/^(~|\.\bak|\.\orig|\.\rpmnew|\.\rpmorig|\.\rpmsave\)/$/d'
++ typeset -f
++ grep declare
+ TYPESET=
+ . /etc/sysconfig/network
++ NETWORKING=yes
++ NETWORKING_IPV6=no
++ HOSTNAME=hostname
++ GATEWAY=0.0.0.0
++ basename postgresql
+ NAME=postgresql
+ '[' p = S -o p = K ']'
+ '[' -x /sbin/runuser ']'
+ SU=runuser
+ PGENGINE=/usr/bin
+ PGPORT=5432
+ PGDATA=/var/lib/pgsql
+ '[' -f /var/lib/pgsql/Pg_VERSION ']'
+ PGDATA=/var/lib/pgsql/data
+ PGLLOG=/var/lib/pgsql/pgstartup.log
+ '[' -f /etc/sysconfig/pgsql/postgresql ']'
+ export PGDATA
+ export PGPORT
+ '[' yes = no ']'
+ '[' -f /usr/bin/postmaster ']'
+ script_result=0
+ case "$1" in
+ start
+ PSQL_START='Starting postgresql service: '
+ '[' ! ' -e /var/lib/pgsql/pgstartup.log -a ! ' -h /var/lib/pgsql/pgstartup.log ']'
+ '[' -f /var/lib/pgsql/data/Pg_VERSION ']'
+ '[' -d /var/lib/pgsql/data/base ']'
```

```

++ cat /var/lib/pgsql/data/PG_VERSION
+ '[' x8.1 '!=' x8.1 ']'
+ echo -n 'Starting postgresql service: '
Starting postgresql service: + runuser -l postgres -c /usr/bin/postmaster -p '\''5432\'' -D
'\''/var/lib/pgsql/data\'' &'
+ sleep 2
++ pidof -s /usr/bin/postmaster
+ pid=2851
+ '[' 2851 ']'
+ '[' -f /var/lib/pgsql/data/postmaster.pid ']'
+ success 'Starting postgresql service: '
+ '[' color '!=' verbose -a -z '' ']'
+ echo_success
+ '[' color = color ']'
+ echo -en '\033[60G'
+ echo -n '['
[+ '[' color = color ']'
+ echo -en '\033[0;32m'
+ echo -n ' OK '
OK + '[' color = color ']'
+ echo -en '\033[0;39m'
+ echo -n ']'
]+ echo -ne '\r'
+ return 0
+ return 0
+ touch /var/lock/subsys/postgresql
+ head -n 1 /var/lib/pgsql/data/postmaster.pid
+ echo
+ exit 0
[root@test12 init.d]# /etc/init.d/postgresql status
postmaster (pid 2851 2850 2849 2847 2845) is running...
[root@test12 log]# /etc/init.d/dcache-server start
Starting dCacheDomain done
[root@test12 log]# /etc/init.d/dcache-server status
DOMAIN      STATUS PID  USER
dCacheDomain running 2370 dcache
[root@test12 ~]# mount localhost:/ /mnt
[root@test12 ~]# cd /mnt/
[root@test12 mnt]# ls
admin data usr
[root@test12 ~]# /usr/sbin/dcache-info-provider >/dev/null
[root@test12 ~]#
[root@test12 /]# chkconfig --list|grep bdii
bdii          0:off    1:off    2:off    3:off    4:off    5:off    6:off
[root@test12 /]# chkconfig bdii on
[root@test12 /]# 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

# test12.egi.cesga.es, resource, grid
dn: GlueSEUniqueID=test12.egi.cesga.es,Mds-Vo-name=resource,o=grid
GlueSEStatus: Production
GlueSETotalOnlineSize: 6
objectClass: GlueSETop
objectClass: GlueSE
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueSETotalNearlineSize: 0
GlueSEArchitecture: disk
GlueSESizeTotal: 6
GlueSEImplementationVersion: 1.9.12-10rc (ns=Chimera)
GlueSESizeFree: 6
GlueSEName: dCache-UMD
GlueSchemaVersionMinor: 3
GlueSEUsedNearlineSize: 0
GlueChunkKey: GlueSEUniqueID=test12.egi.cesga.es
GlueForeignKey: GlueSiteUniqueID=UMD-VERIFICATION
GlueSEUsedOnlineSize: 0
GlueSchemaVersionMajor: 1
GlueSEImplementationName: dCache
GlueSEUniqueID: test12.egi.cesga.es

# nas-S{RWC:*@*}, test12.egi.cesga.es, resource, grid
dn: GlueSALocalID=nas-S{RWC:*@*},GlueSEUniqueID=test12.egi.cesga.es,Mds-Vo-name=resource,o=grid
GlueSAStateAvailableSpace: 6442451
GlueSATotalNearlineSize: 0
objectClass: GlueSATop
objectClass: GlueSA
objectClass: GlueSAAccessControlBase
objectClass: GlueSAState
objectClass: GlueSchemaVersion
objectClass: GlueKey
GlueSAExpirationMode: neverExpire
GlueChunkKey: GlueSEUniqueID=test12.egi.cesga.es
GlueSAReservedOnlineSize: 0
GlueSACapability: InstalledOnlineCapacity=6
GlueSACapability: InstalledNearlineCapacity=0
GlueSACapability: dCacheCanStage=VO:dteam
GlueSACapability: dCacheCanStage=VO:ops
GlueSACapability: dCacheCanRead=VO:dteam
GlueSACapability: dCacheCanRead=VO:ops
GlueSACapability: dCacheCanWrite=VO:dteam
GlueSACapability: dCacheCanWrite=VO:ops
GlueSchemaVersionMinor: 3
GlueSATotalOnlineSize: 6
GlueSAUsedNearlineSize: 0
GlueSAName: Storage accessible via S{RWC:*@*}
GlueSAUsedOnlineSize: 0
GlueSAFreeOnlineSize: 6
GlueSAFreeNearlineSize: 0
GlueSAStateUsedSpace: 0
GlueSAAccessControlBaseRule: VO:dteam
GlueSAAccessControlBaseRule: VO:ops
GlueSchemaVersionMajor: 1
GlueSAReservedNearlineSize: 0
GlueSALocalID: nas-S{RWC:*@*}

# http://test12.egi.cesga.es:8443/srm/managerv2, resource, grid
dn: GlueServiceUniqueID=http://test12.egi.cesga.es:8443/srm/managerv2,Mds-Vo-name=resource,o=grid
GlueServiceAccessControlBaseRule: VO:dteam
GlueServiceAccessControlBaseRule: VO:ops
GlueServiceStatus: OK
GlueServiceStatusInfo: No Problems
objectClass: GlueTop
objectClass: GlueKey
objectClass: GlueSchemaVersion
objectClass: GlueService
GlueServiceUniqueID: http://test12.egi.cesga.es:8443/srm/managerv2
GlueServiceAccessControlRule: dteam
GlueServiceAccessControlRule: ops
GlueServiceEndpoint: http://test12.egi.cesga.es:8443/srm/managerv2
GlueServiceVersion: 2.2.0
GlueSchemaVersionMinor: 3
GlueServiceName: SRM endpoint for UMD-VERIFICATION
GlueServiceType: SRM
GlueServiceStartTime: 2011-10-19T16:39Z
GlueForeignKey: GlueSiteUniqueID=UMD-VERIFICATION
GlueSchemaVersionMajor: 1

# GFTP-test12@dCacheDomain, test12.egi.cesga.es, resource, grid
dn: GlueSEAccessProtocolLocalID=GFTP-test12@dCacheDomain,GlueSEUniqueID=test12.egi.cesga.es,Mds-Vo-name=resource,o=grid
GlueSEAccessProtocolLocalID: GFTP-test12@dCacheDomain
GlueSEAccessProtocolCapability: file transfer
objectClass: GlueSETop

```

```

objectClass: GlueSEAccessProtocol
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueSEAccessProtocolMaxStreams: 10
GlueSchemaVersionMinor: 3
GlueSEAccessProtocolVersion: 2.0
GlueSEAccessProtocolEndpoint: gsiftp://test12.egi.cesga.es:2811
GlueSEAccessProtocolSupportedSecurity: GSI
GlueChunkKey: GlueSEUniqueID=test12.egi.cesga.es
GlueSchemaVersionMajor: 1
GlueSEAccessProtocolType: gsiftp

# SRM-test12@dCacheDomain, test12.egi.cesga.es, resource, grid
dn: GlueSEControlProtocolLocalID=SRM-test12@dCacheDomain,GlueSEUniqueID=test12
.egi.cesga.es,Mds-Vo-name=resource,o=grid
objectClass: GlueSETop
objectClass: GlueSEControlProtocol
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueSEControlProtocolEndpoint: http://test12.egi.cesga.es:8443/srm/managerv2
GlueSEControlProtocolLocalID: SRM-test12@dCacheDomain
GlueSchemaVersionMinor: 3
GlueSEControlProtocolType: SRM
GlueChunkKey: GlueSEUniqueID=test12.egi.cesga.es
GlueSEControlProtocolVersion: 2.2.0
GlueSchemaVersionMajor: 1

# default-store-ops, nas-S{RWC:*@*}, test12.egi.cesga.es, resource, grid
dn: GlueV0InfoLocalID=default-store-ops,GlueSALocalID=nas-S{RWC:*@*},GlueSEUni
queID=test12.egi.cesga.es,Mds-Vo-name=resource,o=grid
GlueV0InfoAccessControlBaseRule: V0:ops
objectClass: GlueV0Info
objectClass: GlueSchemaVersion
objectClass: GlueKey
GlueSchemaVersionMinor: 3
GlueV0InfoLocalID: default-store-ops
GlueChunkKey: GlueSALocalID=nas-S{RWC:*@*}
GlueChunkKey: GlueSEUniqueID=test12.egi.cesga.es
GlueSchemaVersionMajor: 1
GlueV0InfoPath: /pnfs/example.org/data/ops

# default-store-dteam, nas-S{RWC:*@*}, test12.egi.cesga.es, resource, grid
dn: GlueV0InfoLocalID=default-store-dteam,GlueSALocalID=nas-S{RWC:*@*},GlueSEU
niqueID=test12.egi.cesga.es,Mds-Vo-name=resource,o=grid
GlueV0InfoAccessControlBaseRule: V0:dteam
objectClass: GlueV0Info
objectClass: GlueSchemaVersion
objectClass: GlueKey
GlueSchemaVersionMinor: 3
GlueV0InfoLocalID: default-store-dteam
GlueChunkKey: GlueSALocalID=nas-S{RWC:*@*}
GlueChunkKey: GlueSEUniqueID=test12.egi.cesga.es
GlueSchemaVersionMajor: 1
GlueV0InfoPath: /pnfs/example.org/data/dteam

# search result
search: 2
result: 0 Success

# numResponses: 11
# numEntries: 10
You have new mail in /var/spool/mail/root

[asimon@test13 ~]$ srm ping -2 srm://test12.egi.cesga.es:8443
VersionInfo : v2.2
backend_type:dCache
backend_version:production-1.9.12-10rc

[asimon@test13 ~]$ srm ls srm://test12.egi.cesga.es:8443/
512 //
    512 /admin/
    512 /usr/
    512 /data/

[asimon@test13 ~]$ srm cp -2 -debug file:///tmp/yum.conf.security srm://test12.egi.cesga.es:8443/srm/managerv2?
SFN=/data/mytest/test_umd3.out
Storage Resource Manager (SRM) Client version 2.1.5-23
Copyright (c) 2002-2009 Fermi National Accelerator Laboratory

SRM Configuration:
  default_port=8443
  debug=true
  srmphome=..
  urlcopy=sbin/urlcopy.sh
  gsiftpclient=globus-url-copy
  help=false
  h=false
  gsisl=true
  mapfile=conf/SRMServerV1.map
  webservice_path=null
  webservice_protocol=https
  use_proxy=true
  x509_user_proxy=/tmp/x509up_u500
  x509_user_cert=null
  x509_user_key=null
  x509_user_trusted_certificates=/etc/grid-security/certificates
  globus_tcp_port_range=null
  gss_expected_name=null
  protocols=gsiftp,dcap,http

```



```
pushmode=false
buffer_size=131072
tcp_buffer_size=0
streams_num=10
conf=/home/asimon/.srmconfig/config.xml
save_conf=null
do_remove=false
copy=true
bringOnline=false
ping=false
reserveSpace=false
array_of_client_networks=null
retention_policy=null
space_desc=null
access_latency=null
access_pattern=null
connection_type=null
desired_size=null
guaranteed_size=null
lifetime=null
releaseSpace=false
space_token=null
force=false
getSpaceMetaData=false
space_tokens=null
copyjobfile=null
wsdl_url=null
use_urlcopy_script=false
getFileMetaData=false
ls=false
getSpaceTokens=false
rm=false
rmdir=false
mv=false
mkdir=false
getPermissions=false
checkPermissions=false
setPermissions=false
getRequestSummary=false
getRequestTokens=false
abortFiles=false
releaseFiles=false
request_desc=null
type=null
owner=null
group=null
other=null
request_tokens=null
request_token=null
file_lifetime=null
pin_lifetime=null
extendFileLifetime=false
advisoryDelete=false
getRequestStatus=false
request_id=0
getStorageElementInfo=false
retry_timeout=10000
retry_num=20
connect_to_wsdl=false
delegate=true
full_delegation=true
version=false
report=null
server_mode=null
storage_type=null
stage=false
l=false
recursive=false
offset=0
count=null
srm_protocol_version=2
request_lifetime=86400
priority=0
overwrite_mode=null
send_cksm=true
cksm_type=null
cksm_value=null
abortRequest=false
repeat=null
dryrun=false
from[0]=file:///tmp/yum.conf.security
to=srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest/test_umd3.out
```

```
Thu Oct 20 09:18:37 CEST 2011: In SRMClient ExpectedName: host
Thu Oct 20 09:18:37 CEST 2011: SRMClient(https,srm/managerv2,true)
SRMClientV2 : user credentials are: /DC=es/DC=irisgrid/O=cesga/CN=alvarosimon
SRMClientV2 : connecting to srm at http://test12.egi.cesga.es:8443/srm/managerv2
SRMClientV2 : srmPrepareToPut , contacting service http://test12.egi.cesga.es:8443/srm/managerv2
copy_jobs is empty
Thu Oct 20 09:18:41 CEST 2011: srm returned requestToken = -2147478615
copy_jobs is not empty
copying CopyJob, source = file:///tmp/yum.conf.security destination =
gsiftp://test12.egi.cesga.es:2811/data/mytest/test_umd3.out
Thu Oct 20 09:18:41 CEST 2011: no more pending transfers, breaking the loop
GridftpClient: memory buffer size is set to 131072
GridftpClient: connecting to test12.egi.cesga.es on port 2811
GridftpClient: gridFTPClient tcp buffer size is set to 1048576
GridftpClient: gridFTPWrite started, source file is java.io.RandomAccessFile@1e670479 destination path is
data/mytest/test_umd3.out
GridftpClient: gridFTPWrite started, destination path is data/mytest/test_umd3.out
GridftpClient: set local data channel authentication mode to None
GridftpClient: parallelism: 10
GridftpClient: ADLER32 for file java.io.RandomAccessFile@1e670479 is 11608c95
```

```
GridftpClient: waiting for completion of transfer
GridftpClient: starting a transfer to data/mytest/test_umd3.out
GridftpClient: DiskDataSink.close() called
GridftpClient: gridFTPWrite() wrote 413bytes
GridftpClient: closing client : org.globus.ftp.GridFTPClient@6bab600f
GridftpClient: closed client
execution of CopyJob, source = file:///tmp/yum.conf.security destination =
gsiftp://test12.egi.cesga.es:2811/data/mytest/test_umd3.out completed
SRMClientV2 : srmPutDone , contacting service http://test12.egi.cesga.es:8443/srm/managerv2
srmPutDone status code=SRM_SUCCESS
copy_jobs is empty
stopping copier
```

```
[root@test12 mytest]# ls /mnt/data/mytest/
asimon test1.out test2.out test_umd3.out
```

```
[asimon@test13 ~]$ srmcp -2 -debug srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest/test_umd3.out
file:///tmp/test_srm_umd3.shStorage Resource Manager (SRM) Client version 2.1.5-23
Copyright (C) 2002-2009 Fermi National Accelerator Laboratory
```

SRM Configuration:

```
default_port=8443
debug=true
srmcphome=..
urlcopy=sbin/urlcopy.sh
gsiftpclient=globus-url-copy
help=false
h=false
gsisssl=true
mapfile=conf/SRMServerV1.map
webservice_path=null
webservice_protocol=https
use_proxy=true
x509_user_proxy=/tmp/x509up_u500
x509_user_cert=null
x509_user_key=null
x509_user_trusted_certificates=/etc/grid-security/certificates
globus_tcp_port_range=null
gss_expected_name=null
protocols=gsiftp,dcap,http
pushmode=false
buffer_size=131072
tcp_buffer_size=0
streams_num=10
conf=/home/asimon/.srmconfig/config.xml
save_conf=null
do_remove=false
copy=true
bringOnline=false
ping=false
reserveSpace=false
array_of_client_networks=null
retention_policy=null
space_desc=null
access_latency=null
access_pattern=null
connection_type=null
desired_size=null
guaranteed_size=null
lifetime=null
releaseSpace=false
space_token=null
force=false
getSpaceMetaData=false
space_tokens=null
copyjobfile=null
wsdl_url=null
use_urlcopy_script=false
getFileMetaData=false
ls=false
getSpaceTokens=false
rm=false
rmdir=false
mv=false
mkdir=false
getPermissions=false
checkPermissions=false
setPermissions=false
getRequestSummary=false
getRequestTokens=false
abortFiles=false
releaseFiles=false
request_desc=null
type=null
owner=null
group=null
other=null
request_tokens=null
request_token=null
file_lifetime=null
pin_lifetime=null
extendFileLifetime=false
advisoryDelete=false
getRequestStatus=false
request_id=0
getStorageElementInfo=false
retry_timeout=10000
retry_num=20
connect_to_wsdl=false
delegate=true
full_delegation=true
version=false
report=null
```

```

server_mode=null
storagetype=null
stage=false
l=false
recursive=false
offset=0
count=null
srm_protocol_version=2
request_lifetime=86400
priority=0
overwrite_mode=null
send_cksm=true
cksm_type=null
cksm_value=null
abortRequest=false
repeat=null
dryrun=false
from[0]=srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest/test_umd3.out
to=file:///tmp/test_srm_umd3.sh

Thu Oct 20 09:20:56 CEST 2011: starting SRMGetClient
Thu Oct 20 09:20:56 CEST 2011: In SRMClient ExpectedName: host
Thu Oct 20 09:20:56 CEST 2011: SRMClient(https,srm/managerv2,true)
SRMClientV2 : user credentials are: /DC=es/DC=irisgrid/O=cesga/CN=alvarosimon
SRMClientV2 : connecting to srm at http://test12.egi.cesga.es:8443/srm/managerv2
Thu Oct 20 09:20:57 CEST 2011: calling srmPrepareToGet
SRMClientV2 : srmPrepareToGet , contacting service http://test12.egi.cesga.es:8443/srm/managerv2
copy_jobs is empty
Thu Oct 20 09:21:00 CEST 2011: received response
Thu Oct 20 09:21:00 CEST 2011: srm returned requestToken = -2147478613
copy_jobs is not empty
copying CopyJob, source = gsiftp://test12.egi.cesga.es:2811/data/mytest/test_umd3.out destination =
file:///tmp/test_srm_umd3.sh
GridftpClient: memory buffer size is set to 131072
GridftpClient: connecting to test12.egi.cesga.es on port 2811
Thu Oct 20 09:21:00 CEST 2011: no more pending transfers, breaking the loop
GridftpClient: gridFTPClient tcp buffer size is set to 1048576
GridftpClient: gridFTPRead started
GridftpClient: set local data channel authentication mode to None
GridftpClient: parallelism: 10
GridftpClient: waiting for completion of transfer
GridftpClient: starting a transfer from data/mytest/test_umd3.out
GridftpClient: DiskDataSink.close() called
GridftpClient: gridFTPWrite() wrote 413bytes
GridftpClient: closing client : org.globus.ftp.GridFTPClient@1638fff7
GridftpClient: closed client
execution of CopyJob, source = gsiftp://test12.egi.cesga.es:2811/data/mytest/test_umd3.out destination =
file:///tmp/test_srm_umd3.sh completed
SRMClientV2 : srmReleaseFiles , contacting service http://test12.egi.cesga.es:8443/srm/managerv2
srmReleaseFilesResponse status code=SRM_SUCCESS
copy_jobs is empty
stopping copier

[asimon@test13 ~]$ ls /tmp/test_srm_umd3.sh
/tmp/test_srm_umd3.sh

[asimon@test13 ~]$ srm ls srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest
512 /data/mytest/
122 /data/mytest/test1.out
122 /data/mytest/test2.out
512 /data/mytest/asimon/
413 /data/mytest/test_umd3.out

[asimon@test13 ~]$ srm mkdir -2 srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest/opssgm
[asimon@test13 ~]$ srm ls srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest
512 /data/mytest/
122 /data/mytest/test1.out
122 /data/mytest/test2.out
512 /data/mytest/asimon/
413 /data/mytest/test_umd3.out
512 /data/mytest/opssgm/

[asimon@test13 ~]$ srm rmdir -2 srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest/opssgm
[asimon@test13 ~]$ srm ls srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest
512 /data/mytest/
122 /data/mytest/test1.out
122 /data/mytest/test2.out
512 /data/mytest/asimon/
413 /data/mytest/test_umd3.out

[asimon@test13 ~]$ lcg-ls -l -b -D srmv2 srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest
-rw-rwxr-- 1 2 2 122 UNKNOWN /data/mytest/test1.out
* Checksum: 45dd2759 (adler32)
-rw-rw-r-- 1 2 2 122 UNKNOWN /data/mytest/test2.out
* Checksum: 45dd2759 (adler32)
drwxrwxr-x 1 2 2 512 LOST /data/mytest/asimon
* Checksum: ()
-rw-rw-r-- 1 2 2 413 UNKNOWN /data/mytest/test_umd3.out
* Checksum: 11608c95 (adler32)

[asimon@test13 ~]$ srm-get-permissions -webservice_path=srm/v2/server srm://test12.egi.cesga.es:8443/srm/managerv2?
SFN=/data/mytest/test_umd3.out
# file : srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest/test_umd3.out
# owner : 500
owner:500:RW
user:500:RW
group:500:RW
other:R

[asimon@test13 ~]$ 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
[asimon@test13 ~]$ srm-get-permissions -webservice_path=srm/v2/server srm://test12.egi.cesga.es:8443/srm/managerv2?
SFN=/data/mytest/test_umd3.out

```

```
# file : srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest/test_umd3.out
# owner : 500
owner:500:RW
user:500:RW
group:500:RWX
other:R
```

```
[asimon@test13 ~]$ srm-check-permissions -webservice_path=srm/v2/server srm://test12.egi.cesga.es:8443/srm/managerv2?
SFN=/data/mytest/test_umd3.out
# file : srm://test12.egi.cesga.es:8443/srm/managerv2?SFN=/data/mytest/test_umd3.out
permission mode:RW
```

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: