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

Name of the component	dCache				
Release	2.2.4		RT Ticket		
Software Provider	dCache.org (EMI)				
Release Contact	Name:		E-Mail		
Validator	Name: Antonio Delgado Peris, E-Mail: lcg.		E-Mail: lcg.suppo	.support@ciemat.es	
	Javier Rodríguez Calonge				
V. Hours Worked	8				
Component status	OK	Date		24-10-2012	
Verification start date	22-10-2012	Verification end date 24-10-2012		24-10-2012	

Summary:

The component is ready for production (we have been using it in production for a few weeks). It just presents a few minor problems, as indicated in the tickets below.

GGUS Tickets:

Please notice that these are dCache RT tickets, not GGUS ones.

Issue already solved in dCache 2.2.4:

- 7334: xrootd door presents two principals for the same DN (different encoding)

Issues not solved in 2.2.4 but understood and fixed by a future release:

- 7333: When using vorolemap and authzdb plugins with gPlazma2, if several FQANs are presented in VOMS proxy, only the first one is considered. It is a serious issue but can be worked around by using gPlazma1.
- 7450: Problem with the production of billing plots.
- 7451: Problem with ACL function that makes new files and subdirectories inherit ACEs in the wrong order.

Issue not yet understood:

 7396: Pools exhausting all space and disabling themselves. A restart is needed to recover them. The problem is not yet understood. It happens rarely but, when it does, it is a serious problem.

Summary of Quality Criteria verification:

	Generic Quality Criteria Total (Critical/Non critical)					
	Passed	Not passed	Not Applicable	Total		
TP						
VLD	18	0	3	21		
	Specific Quality Criteria					
TP						
VLD	9	0	6	15		

Quality Criteria verification cheatsheet:

Criteria	Accepted (Y	//N/NTested (TP/	VLD) Comments
DOCUMENTATION QC			http://www.docaba.com/acamana/ala-a-ba
GENERIC_DOC_1 (Functional Description)	V	VLD	http://www.dcache.org/manuals/dcache-whitepaper-light.pdf http://www.dcache.org/manuals/Book-2.2/index-fhs.shtml
GENERIC DOC 2 (Release Notes)	<u> </u>	VLD	http://www.dcache.org/downloads/1.9/release-notes-2.2.shtml
OLIVEINIO_DOC_2 (INclease Indies)	+'	VLD	dCache is a service. Users should rather refer to user guides of client tools
			such as lcg_utils (or generic EMI user guides). However, dCache does
			describe its own client tools (dccp):
GENERIC_DOC_3 (User Documentation)	Υ	VLD	http://www.dcache.org/manuals/dccp.shtml
GENERIC_DOC_4 (Online help (man pages))	Υ	VLD	For dccp, there is no manpage but 'help' option exists.
GENERIC_DOC_5 (API Documentation)	Υ	VLD	http://www.dcache.org/manuals/libdcap.shtml
GENERIC_DOC_6 (Administrator Documentation)	Υ	VLD	http://www.dcache.org/manuals/Book-2.2/index-fhs.shtml
GENERIC_DOC_7 (Service Reference Card)	Υ	VLD	https://twiki.cern.ch/twiki/bin/view/EMI/DCacheServerServiceReferenceCard
GENERIC_DOC_8 (Software License)	Υ	VLD	
			Each change is documented and links to the patches are provided, so one
GENERIC_DOC_9 (Release changes testing)	~	VLD	understand the change has been tested. However, I cannot see links to the tests themselves.
SOFTWARE DISTRIBUTION QC	<u></u>	IVLD	icab tieriacives.
CONTINUE DIGINIDATION QU	Т		dCache team offers acces to "some parts of the dCache code". This seems
			quite comprehensive, though they do not explain which parts are not
GENERIC_DIST_1 (Source Code Availability)	Υ	VLD	accessible: http://www.dcache.org/downloads/source-code.shtml
GENERIC_DIST_3 (Binary Distribution)	Υ	VLD	http://www.dcache.org/downloads/1.9/index.shtml#server-2.2
SOFTWARE FEATURES QC			
GENERIC_SOFT_1 (Backwards Compatibility)	Υ	VLD	
GENERIC_SOFT_2 (New features testing)	Υ	VLD	
SERVICE CRITERIA QC			
	.,	\	All actions are OK. Only caveat is that stopping an already stopped service
GENERIC_SERVICE_1 (Service control and status)	Y	VLD	does not show any output messages as requested by the test.
GENERIC_SERVICE_2 (Log Files)	Y	VLD VLD	Consider has been in mandoration for unable modified with OK
GENERIC_SERVICE_3 (Service Reliability)	Ontional	VLD	Service has been in production for weeks, working quite OK. NOT TESTED
GENERIC_SERVICE_4 (Service Robustness)	Optional		The SSH admin interface has a default password ("dickerelch"). This is also
			documented in the dCache book: http://www.dcache.org/manuals/Book-
GENERIC_SERVICE_6 (Default Password Configuration)	N		2.2/start/intouch-admin-fhs.shtml
SECURITY QC			
GENERIC_SEC_1 (World Writable Files)	Υ	VLD	
GENERIC_SEC_2 (Directory Traversal Attacks testing)			DON'T KNOW HOW TO TEST
GENERIC_SEC_3 (Passwords in world readable files)	Υ	VLD	There are no passwords in world readable files.
MISCELLANEOUS QC			
GENERIC_MISC_2 (Bug Tracking System)			CAN'T TEST THIS
AUTHENTICATION QC			
AUTHN_IFACE_1 (X.509 Certificate support)	Y	VLD	
AUTHN_DELEG_1 (Delegation Interface)			DON'T KNOW HOW TO TEST
FILE ACCESS QC			NOT TENTED and and the last NEO and the file of the control of the last Neo and Neo
FILEACC_API_1 (POSIX Read file access)	Ontional		NOT TESTED: we are not using NFS access to files, though it is in theory supported
FILEACC_AFI_1 (FOSIX Read lile access)	Optional		NOT TESTED: we are not using NFS access to files, though it is in theory
FILEACC API 2 (POSIX Write file access)	Optional		supported
FILE TRANSFER QC	ориона		образова
FILETRANS_API_1 (GridFTP File Access)	Υ	VLD	
(* * * * * * * * * * * * * * * * * *	†		NOT TESTED: we are not using HTTPS access to files, though it is in theory
FILETRANS_API_2 (HTTPS File Access)			supported
			NOT TESTED: we are not using WebDAV access to files, though it is in
FILETRANS_API_3 (WebDAV File Access)	Optional		theory supported
STORAGE MANAGEMENT QC			
STORAGE_API_1 (SRM API Support)	Υ	VLD	Common operations work. We didn't test the complete API specification.
STORAGE_API_2 (LCG-UTILS test)	Υ	VLD	
	Υ	VLD	
STORAGE_DEVICE_1 (Information retrieval)	•		It works although there is a bug in gPlazma2 (see tickets section, ticket
			# 7333)
STORAGE_DEVICE_1 (Information retrieval) STORAGE_DEVICE_2 (Fine grained authorization)	Υ	VLD	
STORAGE_DEVICE_2 (Fine grained authorization)	Y	VLD	NOT TESTED: Our supported VOs do not use space tokens. In theory it is
STORAGE_DEVICE_2 (Fine grained authorization) STORAGE_DEVICE_3 (Space reservations)	Y Optional		
STORAGE_DEVICE_2 (Fine grained authorization) STORAGE_DEVICE_3 (Space reservations) STORAGE_DEVICE_4 (Checksum)	Y Optional Y	VLD VLD	NOT TESTED: Our supported VOs do not use space tokens. In theory it is
STORAGE_DEVICE_2 (Fine grained authorization) STORAGE_DEVICE_3 (Space reservations) STORAGE_DEVICE_4 (Checksum) MONITORING PROBES QC	Y	VLD	NOT TESTED: Our supported VOs do not use space tokens. In theory it is
STORAGE_DEVICE_2 (Fine grained authorization) STORAGE_DEVICE_3 (Space reservations) STORAGE_DEVICE_4 (Checksum) MONITORING PROBES QC MON_PROBE_GENERIC_1 (Certificate Lifetime Probe)	Y		NOT TESTED: Our supported VOs do not use space tokens. In theory it is supported.
STORAGE_DEVICE_2 (Fine grained authorization)	Y	VLD	NOT TESTED: Our supported VOs do not use space tokens. In theory it is

Validator co	mments:				
Not applicab	le Quality Criter	ia:			
Specific Fund	ctional Tests to be	e repeated i	in SR:		
Test number	Description		Motivation		
Specific Non	functional tasts (Caalahility	, etc) to be repeated in SR:		
			· -		
Test number	Description	Motivation			
Comments for	or UMD QC defin	nition (TSA	2.2):		
Comments	or civil Qc ucin	11011 (15/1	<i>)</i> .		
Comments for	or SR (TSA1.3):				
Comments fo	or DMSU (TSA2.	5):			
Comments for	or TP:				