

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

Name of the component	StoRM		
Release	1.8.1	RT Ticket	3253
Software Provider	EMI		
Release Contact	Name:	E-Mail	
	cristina.aiftimiei@pd.infn.it		
Validator	Name:	E-Mail	
	Mario David (david@lip.pt)		
V. Hours Worked	7		
Component status	ACCEPT	Date	2 January 2012
Verification start date	2 January 2012	Verification end date	9 January 2012

Summary of Quality Criteria verification:

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
TP	2			2
VLD	15			15
	Specific Quality Criteria			
TP	1			1
VLD	11		2	13

Criteria	Accepted (Y/N/NA)	Tested (TP/VLD)	Comments
Generic QC			
GENERIC_DOC_1 (Functional Description)	Y	VLD	http://storm.forge.cnaf.infn.it/_media/documentation/storm-service-description.pdf?id=documentation-incomplete , some server components are not yet described
GENERIC_DOC_2 (Release Notes)	Y	VLD	http://www.eu-emi.eu/emi-1-kebnekaise-updates/-/asset_publisher/lr6q/content/update-11-15-12-2011#StoRM_SE_v_1_8_1_task_24381
GENERIC_DOC_5 (API Documentation)	Y	VLD	http://www.gridforum.org/documents/GFD.129.pdf
GENERIC_DOC_6 (Administrator Documentation)	Y	VLD	http://storm.forge.cnaf.infn.it/_media/documentation/storm-sysadminguide.pdf?id=documentation
GENERIC_DOC_7 (Service Reference Card)	Y	VLD	https://twiki.cern.ch/twiki/bin/view/EMI/StoRMPTServiceReferenceCard
GENERIC_DOC_8 (Software License)	Y	VLD	Apache 2.0
GENERIC_DOC_9 (Release changes testing)			
GENERIC_DIST_1 (Source Code Availability)	Y	TP	
GENERIC_DIST_2 (Source Distribution)	Y	TP	
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	
GENERIC_SERVICE_1 (Service control and status)			/etc/init.d/storm-* start stop status
GENERIC_SERVICE_2 (Log Files)	Y	VLD	/var/log/storm/*
GENERIC_SERVICE_3 (Service Reliability)			
GENERIC_SERVICE_4 (Service Robustness)			
GENERIC_SERVICE_4 (Automatic Configuration)	Y	VLD	yaim configuration
GENERIC_SEC_1 (World Writable Files)	Y	VLD	find / -perm -o=w -type f -print
GENERIC_SEC_2 (Directory Traversal Attacks testing)			
GENERIC_MISC_2 (Bug Tracking System)	Y	VLD	https://storm.cnaf.infn.it:8443/redmine/
Security Capabilities QC			
AUTHN_IFACE_1 (X.509 Certificate support)	Y	VLD	
AUTHN_IFACE_2 (SAML authentication)			
AUTHN_DELEG_1 (Delegation Interface)			
AUTHZ_PCYDEF_3 (Ban UserFQAN)			
AUTHZ_PCYDEF_4 (Allowed users definition)	Y	VLD	
AUTHZ_PEP_1 (Policy Enforcement)	NA	VLD	
AUTHZ_PEP_2 (User Mapping)	NA	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)			
FILETRANS_API_1 (GridFTP File Access)	Y	VLD	
FILETRANS_API_2 (HTTPS File Access)	Y	VLD	https service configuration and testing OK
FILETRANS_API_3 (WebDAV File Access)			
STORAGE_API_1 (SRM API Support)	Y	TP	
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)			
MON_PROBE_STORAGE_1 (SRM Probes)			

Summary:

Install from scratch 1.8.1 [OK]

Run yaim configuration [OK]

Basic tests:

Service tests: status [OK]

Information system publishing: Glue 1.3 and Glue 2.0

Test with clientSRM tools

Validator comments:

The mysql passwd seems to be hardwired to the value "storm"

GGUS ticket

https://ggus.eu/tech/ticket_show.php?ticket=77970

```
[root@srm02 yum.repos.d]# /etc/init.d/storm-frontend-server status
storm-frontend-server (pid 20001) is running...
```

```
[root@srm02 yum.repos.d]# /etc/init.d/storm-backend-server status
storm-backend-server (pid 18091) is RUNNING [ OK ]
```

```
[root@srm02 yum.repos.d]# /etc/init.d/bdii status
BDII Running [ OK ]
```

```
[root@srm02 yum.repos.d]# /etc/init.d/mysqld status
mysqld (pid 16311) is running...
```

```
[david@ui01 ~]$ clientSRM Ls -l -v -e httpg://srm02.lip.pt:8443 -s
srm://srm02.lip.pt/dteam/MD2-480MB
```

```
=====
Sending Ls request to: httpg://srm02.lip.pt:8443
=====
```

```
Request status:
  statusCode="SRM_SUCCESS"(0)
  explanation="All requests successfully completed"
=====
```

```
SRM Response:
details (size=1)
  [0] path="/dteam/MD2-480MB"
  [0] size=506821564
  [0] lastModificationTime="2011-12-29T15:12:49"
  [0] fileStorageType=2
  [0] retentionPolicyInfo=(0,0)
  [0] fileLocality=0
  [0] type=File
  [0] lifetimeAssigned=-1
  [0] lifetimeLeft=-1
  [0] ownerPermission (userID="3059",mode=RW-)
  [0] groupPermission (groupID="3059",mode=RW-)
  [0] otherPermission=RW-
  [0] checksumType="ADLER32"
  [0] checksumValue="bb08268f"
  [0] status: statusCode="SRM_SUCCESS"(0)
      explanation="Successful request completion"
=====
```

```
ldapsearch -x -H ldap://srm02.lip.pt:2170 -b 'mds-vo-name=resource,o=grid'
# extended LDIF
#
# LDAPv3
# base <mds-vo-name=resource,o=grid> with scope subtree
# filter: (objectclass=*)
# requesting: ALL
#
```

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

```
# srm02.lip.pt, resource, grid
dn: GlueSEUniqueID=srm02.lip.pt,Mds-Vo-name=resource,o=grid
GlueSEStatus: Production
GlueSETotalOnlineSize: 70
objectClass: GlueSETop
```

objectClass: GlueSE
objectClass: GlueInformationService
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueSETotalNearlineSize: 0
GlueSEArchitecture: multidisk
GlueSESizeTotal: 70
GlueSEImplementationVersion: 1.8.1
GlueSESizeFree: 70
GlueSEName: LIP-Lisbon:srm_v2
GlueSchemaVersionMinor: 3
GlueSEUsedNearlineSize: 0
GlueForeignKey: GlueSiteUniqueID=LIP-Lisbon
GlueSEUsedOnlineSize: 0
GlueSchemaVersionMajor: 1
GlueSEImplementationName: StoRM
GlueInformationServiceURL: ldap://srm02.lip.pt:2170/mds-vo-name=resource,o=grid
GlueSEUniqueID: srm02.lip.pt

```
ldapsearch -x -H ldap://srm02.lip.pt:2170 -b 'o=glue'
```

```
# extended LDIF
```

```
#
```

```
# LDAPv3
```

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

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

```
# requesting: ALL
```

```
#
```

```
# glue
```

```
dn: o=glue
```

```
objectClass: organization
```

```
o: glue
```

```
# grid, glue
```

```
dn: GLUE2GroupID=grid,o=glue
```

```
objectClass: GLUE2Group
```

```
GLUE2GroupID: grid
```

```
# resource, glue
```

```
dn: GLUE2GroupID=resource,o=glue
```

```
objectClass: GLUE2Group
```

```
GLUE2GroupID: resource
```

```
# srm02.lip.pt, resource, glue
```

```
dn: GLUE2ServiceID=srm02.lip.pt,GLUE2GroupID=resource,o=glue
```

```
GLUE2ServiceID: srm02.lip.pt
```

```
objectClass: GLUE2Service
```

```
GLUE2ServiceQualityLevel: 2
```

```
GLUE2ServiceStatusInfo: http://srm02.lip.pt/get-status
```

GLUE2ServiceCapability: data.management.storage
GLUE2ServiceType: Storage
GLUE2ServiceAdminDomainForeignKey: lip.pt

httpg://srm02.lip.pt:8443/srm/managerv2, resource, glue
dn:
GLUE2ServiceID=httpg://srm02.lip.pt:8443/srm/managerv2,GLUE2GroupID=resource,o=glue
GLUE2EntityValidity: 3600
GLUE2ServiceType: emi.storm
GLUE2ServiceID: httpg://srm02.lip.pt:8443/srm/managerv2
objectClass: GLUE2Service
GLUE2ServiceQualityLevel: testing
GLUE2EntityOtherInfo: InfoProviderName=glite-info-glue2-service
GLUE2EntityOtherInfo: InfoProviderVersion=1.1
GLUE2EntityOtherInfo: InfoProviderHost=srm02.lip.pt
GLUE2ServiceComplexity: endpointType=1, share=0, resource=0
GLUE2ServiceCapability: information.model
GLUE2ServiceCapability: information.discovery
GLUE2ServiceCapability: information.monitoring
GLUE2EntityName: LIP-Lisbon-storm
GLUE2ServiceAdminDomainForeignKey: LIP-Lisbon
GLUE2EntityCreationTime: 2012-01-09T11:45:57Z

srm02.lip.pt/dteamdisk, srm02.lip.pt, resource, glue
dn:
GLUE2ShareID=srm02.lip.pt/dteamdisk,GLUE2ServiceID=srm02.lip.pt,GLUE2GroupID=resource,o=glue
GLUE2StorageShareStorageServiceForeignKey: srm02.lip.pt/dteamdisk
GLUE2StorageSharePath: /dteam
objectClass: GLUE2Share
objectClass: GLUE2StorageShare
GLUE2StorageShareAccessMode: to be defined
GLUE2StorageShareMaximumLifeTime: -1
GLUE2StorageShareDefaultLifeTime: -1
GLUE2StorageShareSharingID: dteam:replica:online
GLUE2ShareServiceForeignKey: srm02.lip.pt
GLUE2ShareID: srm02.lip.pt/dteamdisk
GLUE2StorageShareServingState: 4
GLUE2StorageShareExpirationMode: neverExpire
GLUE2StorageShareRetentionPolicy: replica
GLUE2ShareDescription: Share for dteam
GLUE2StorageShareTag: dteamdisk
GLUE2StorageShareAccessLatency: online

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: