

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

Name of the component	QCG-Broker and QCG-Client		
Release	<b>3.0.0</b>	RT Ticket	#5841, #5842
Software Provider			
Release Contact	Name:	E-Mail	
Validator	Name: Paweł Wolniewicz	E-Mail pawelw@man.poznan.pl	
V. Hours Worked	6		
Component status	<b>Accepted</b>	Date	09.08.2013
Verification start date	06.08.2013	Verification end date	09.08.2013

**Summary:**

**QCG-Broker and QCG-Broker-client were validated together as they are closely related component and it is not possible to fully verify them separately. The components are ready for production. Installation process was successful, example jobs were run without problems. Some comments are given to developers, but they do not influence positive validation of the release.**

**GGUS Tickets:**

#96315 – test contact to support group. (done while validation of other QCG components)

**Summary of Quality Criteria verification:**

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
<b>TP</b>	3		1	4
<b>VLD</b>	17	1		18
	Specific Quality Criteria			
<b>TP</b>	3	3	2	8
<b>VLD</b>	17	3		20

## Quality Criteria verification cheatsheet:

<Insert filled excel cheatsheet>

DOCUMENTATION QC			
GENERIC_DOC_1 (Functional Description)	Optional Y	VLD	<a href="http://www.qoscosgrid.org/trac/qcg-broker">http://www.qoscosgrid.org/trac/qcg-broker</a>
GENERIC_DOC_2 (Release Notes)	Y	VLD	<a href="http://www.qoscosgrid.org/trac/qcg-broker/wiki/qcg-broker-client_release_notes">http://www.qoscosgrid.org/trac/qcg-broker/wiki/qcg-broker-client_release_notes</a>
GENERIC_DOC_3 (User Documentation)	Optional Y	VLD	<a href="http://www.qoscosgrid.org/trac/qcg-broker/wiki/client_user_guide">http://www.qoscosgrid.org/trac/qcg-broker/wiki/client_user_guide</a> Documentation covers job description XML dialect. Simple submission description is in progress
GENERIC_DOC_4 (Online help (man pages))	Optional Y	VLD	Option -h for all commands no man pages
GENERIC_DOC_5 (API Documentation)	Optional NA	TP	API not available
GENERIC_DOC_6 (Administrator Documentation)	Optional Y	VLD	<a href="http://www.qoscosgrid.org/trac/qcg-broker/wiki/installation_guide_rpm">http://www.qoscosgrid.org/trac/qcg-broker/wiki/installation_guide_rpm</a> <a href="http://www.qoscosgrid.org/trac/qcg-broker/wiki/client_installation_guide_rpm">http://www.qoscosgrid.org/trac/qcg-broker/wiki/client_installation_guide_rpm</a>
GENERIC_DOC_7 (Service Reference Card)	Optional N	VLD	
GENERIC_DOC_8 (Software License)	Y	VLD	<a href="http://www.qoscosgrid.org/trac/qcg/wiki/license">http://www.qoscosgrid.org/trac/qcg/wiki/license</a>
GENERIC_DOC_9 (Release changes testing)	Optional Y	TP	First release in UMD
SOFTWARE DISTRIBUTION QC			
GENERIC_DIST_1 (Source Code Availability)	Y	VLD	<a href="http://www.qoscosgrid.org/trac/qcg-broker/downloads">http://www.qoscosgrid.org/trac/qcg-broker/downloads</a>
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	
SOFTWARE FEATURES QC			
GENERIC_SOFT_1 (Backwards Compatibility)	Y	TP	First release in UMD
GENERIC_SOFT_2 (New features testing)	Y	TP	First release in UMD
SERVICE CRITERIA QC			
GENERIC_SERVICE_1 (Service control and status)	Y	VLD	
GENERIC_SERVICE_2 (Log Files)	Y	VLD	/var/log/qcg/qcg-broker/
GENERIC_SERVICE_3 (Service Reliability)	Optional Y	VLD	
GENERIC_SERVICE_4 (Service Robustness)	Optional Y	VLD	
GENERIC_SERVICE_6 (Default Password Configuration)	Y	VLD	No password in the configuration.

GENERIC_SERVICE_7 (Default Configuration )	Y	VLD	
SECURITY QC			
GENERIC_SEC_1 (World Writable Files)	Y	VLD	
GENERIC_SEC_3 (Passwords in world readable files)	Y	VLD	
MISCELLANEOUS QC			
GENERIC_MISC_1 (Bug Tracking System)	Y	VLD	<a href="https://ggus.eu/ws/ticket_info.php?ticket=96315">https://ggus.eu/ws/ticket_info.php?ticket=96315</a>
AUTHENTICATION QC			
AUTHN_CRED_1 (X.509 Certificate support)	Y	VLD	
AUTHN_CRED_2 (SHA2 Certificate support)	Optional N	VLD	
AUTHN_CRED_3 (RFC Proxy support)	Optional Y	TP	
AUTHN_PROTO_1 (TLSSSLv3 Support)	Y	VLD	
AUTHN_DELEG_1 (Delegation Interface)	Optional Y	TP	
AUTHORISATION QC			
AUTHZ_PCYDEF_3 (Ban UserGroup of users)	Optional Y	VLD	
AUTHZ_PCYDEF_4 (Allowed users definition)	Y	VLD	
AUTHZ_PEP_2 (User Mapping)	N/A	VLD	Broker - No local accounts Client - unix accounts, no mapping
JOB SCHEDULING QC			
JOBSCH_IFACE_1 (Job Scheduling Interface)	Y	VLD	QCG-Broker [R-17]
JOBSCH_EXEC_1 (Remote Job Management )	Y	VLD	Not listed in the criteriion– should be added (regarding the email from Enol Fernández) create, retrieve, cancel - yes optional hold, resume - no
JOBSCH_EXEC_2 (Remote Resource Information GlueSchema 1.3)	N/A	TP	excluded from the list (accepted vie email by Enol Fernández)
JOBSCH_EXEC_3 (Remote Resource Information GlueSchema 2.0)	N/A	TP	excluded from the list (accepted via email from Enol Fernández)
JOBSCH_JOB_1 (Simple Job)	Y	VLD	
JOBSCH_JOB_2 (Simple Job with inputoutput files)	Y	VLD	
JOBSCH_JOB_3 (Cancel Job)	Y	VLD	
JOBSCH_JOB_4 (Parallel Job)	Y	VLD	
JOBSCH_JOB_5 (Job List Match)	Optional N	TP	
JOBSCH_JOB_6 (Parametric Job Submission)	Y	VLD	XML dialect only
JOBSCH_JOB_7 (Job Collection Submission)	Optional N	TP	
JOBSCH_JOB_8 (DAG	Y	VLD	XML dialect only

Submission)			
JOBSCHE_SERVICE_1 (Error Messages)	Optional N	VLD	No list of errors in documentation Errors with description are returned by services and displayed to the user
JOBSCHE_SERVICE_2 (Service Information)	Optional N	VLD	Planned for next release
JOBSCHE_SERVICE_3 (Self Disabling Mechanism)	Optional N	TP	Partially provided by Tomcat
JOBSCHE_SERVICE_4 (Job Submission Peaks)	Optional N	VLD	Single client instance can submit about 1 task per second. Not tested for many client instances
JOBSCHE_SERVICE_5 (Timely Job Status Updates)	Optional Y	TP	
MONITORING PROBES QC			
MON_PROBE_GENERIC_1 (Certificate Lifetime Probe)	Optional Y	VLD	
MON_PROBE_GENERIC_2 (Service Probe)	Optional Y	VLD	
MON_PROBE_JOBSCHE_1 (WMS Probes)	Y	VLD	QCG-BROKER dedicated probe
CLIENT TOOLS QC			
CLIENT_TOOLS_1 (Command line options coherency)	Y	VLD	
CLIENT_TOOLS_2 (Error Messages)	Y	VLD	Some error messages could be more descriptive Example: Error: User key not found. - no possible solution (no info about where a key should be located) - no error code - no error source

### Validator comments:

The comments below are not critical and can be treated as suggestion for improvements for the next update.

- Some errors and warnings are reported by rpmlint. Most of them are justifiable, but some of them should be checked, e.g:
  - o non-standard-executable-perm 0740
  - o hidden files
  - o zero length files
  - o no-packager-tag
  - o symlink-should-be-relative
- release notes and licence should be packaged into RPM
- qcg\_set\_env and qcg\_how\_to\_start should be removed
- Default proxy length should be less than 25h
- X509\_USER\_PROXY is not correctly handled
- option -h should be handled before validating user certificate
- file staging fails if the user DN in grid-mapfile is mapped to different account than the one used for submission.
- qcg-info does not work with parametric job id

## Not applicable Quality Criteria

AUTHZ_PEP_2 (User Mapping)	N/A	Broker - No local accounts Client - unix accounts, no mapping
JOBSCH_EXEC_2 (Remote Resource Information GlueSchema 1.3)	N/A	excluded from the list (accepted via email by Enol Fernández)
JOBSCH_EXEC_3 (Remote Resource Information GlueSchema 2.0)	N/A	excluded from the list (accepted via email from Enol Fernández)

**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 JOBSCH\_EXEC\_1 (add QCG interface)

**Comments for SR (TSA1.3):**

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

**Comments for TP:**