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

Name of the component	SAGA		
Release	1.6.0	RT Ticket	https://rt.egi.eu/rt/Ticket/Display.html?id=3384
Software Provider	Initiative for Globus in Europe (IGE)		
Release Contact	Name:	E-Mail	
Validator	Name:	E-Mail	
	Adrian Coleşa	adrian.colesa@cs.utcluj.ro	
V. Hours Worked	20		
Component status		Date	May 23rd, 2012
Verification start date	April 27th, 2012	Verification end date	May 23rd, 2012

Summary: Most QC pass. Only 3 documentation QC fail. Comments on the failing QC are included in the verification template appended to the end of this document.

GGUS Tickets:

Summary of Quality Criteria verification:

	Generic Quality Criteria Total (Critical/Non critical)			
	Passed	Not passed	Not Applicable	Total
TP	1	0	0	1
VLD	7	4	1	12
	Specific Quality Criteria			
TP	3	0	0	3
VLD	0	0	1	1

Quality Criteria verification cheatsheet:
Appended at the end of this document.

Validator comments:

Detailed comments are included in the verification template appended at the end of this document.

One general remark regarding the documentation QC is that many documentation file are not necessarily found at an expected location.

Most problematic was the testing of the installation (implicitly of the changes in the release). It seems that job submission works, but the commands/programs freeze because the stdout cannot be open. See below the commands I run for Globus adapter. I also run C programs provided as examples on the SAGA doc page and they also freeze for Globus adapter.

$ saga-job run gram://localhost:2119/jobmanager-fork /bin/hostname
globus GRAM Adaptor: X.509 context found pointing to user proxy at /tmp/x509up_u500
Globus Adaptors: Certificate seems to be present.
globus_loader: activate GRAM
globus_loader: activate FTP
globus_loader: activate RLS
globus_loader: activate GSI
globus_loader: activate GASS
GLOBUS GRAM2 ADAPTOR ### RSL: &(stderr=https://test05.egi.cesga.es:35818/dev/saga)
(executable=/bin/hostname)(stdout=https://test05.egi.cesga.es:40934/dev/saga)
GLOBUS GRAM2 ADAPTOR ### GRAM2 job submission successful:
https://test05.egi.cesga.es:47626/16217986330776843571/1704917388719481232/
jobID: https://test05.egi.cesga.es:47626/16217986330776843571/1704917388719481232/ state: -1

$ tail -n 50 /var/log/globus/gram_acolesa.log
ts=2012-05-23T13:35:26.939931Z id=19615 event=gram.send_job.start level=INFO
ts=2012-05-23T13:35:26.962120Z id=19614 event=gram.reload_requests.start level=INFO
ts=2012-05-23T13:35:26.962209Z id=19614 event=gram.reload_requests.end level=INFO
statedir="/var/lib/globus/gram_job_state" status=0 requests=0
ts=2012-05-23T13:35:27.493482Z id=19615 event=gram.send_job.start level=INFO
ts=2012-05-23T13:35:27.498244Z id=19615 event=gram.send_job.end level=INFO status=0
ts=2012-05-23T13:35:27.498284Z id=19615 event=gram.end level=DEBUG
ts=2012-05-23T13:35:27.530242Z id=19614 event=gram.job.start level=INFO
gramid=/16217986330987094056/1704917388719481232/ peer=""
ts=2012-05-23T13:35:27.581539Z id=19614 event=gram.query.start level=INFO
uri="/16217986330987094056/1704917388719481232/"
ts=2012-05-23T13:35:27.581594Z id=19614 event=gram.query.end level=INFO
gramid=/16217986330987094056/1704917388719481232/
uri="/16217986330987094056/1704917388719481232/" msg="Done processing query" status=0
ts=2012-05-23T13:35:27.588424Z id=19614 event=gram.query.start level=INFO
uri="/16217986330987094056/1704917388719481232/"
ts=2012-05-23T13:35:27.612383Z id=19614 event=gram.job.info level=INFO msg="job submitted to
lrm" lrm_id="19635"
ts=2012-05-23T13:35:27.612664Z id=19614 event=gram.job.info level=INFO
gramid=/16217986330987094056/1704917388719481232/ job_status=2
ts=2012-05-23T13:35:28.099771Z id=19614 event=gram.job.info level=INFO
gramid=/16217986330987094056/1704917388719481232/ job_status=8
ts=2012-05-23T13:35:35.857956Z id=19614 event=gram.job.info level=INFO
gramid=/16217986330987094056/1704917388719481232/ job_status=4

ts=2012-05-23T13:35:35.858062Z id=19614 event=gram.job.info level=INFO
gramid=/16217986330987094056/1704917388719481232/ job_status=4
ts=2012-05-23T13:35:35.858780Z id=19614 event=gram.job.end level=ERROR
gramid=/16217986330987094056/1704917388719481232/ job_status=4 status=-73 reason="the job
manager failed to open stdout"
ts=2012-05-23T13:35:45.668115Z id=19641 event=gram.send_job.start level=INFO
ts=2012-05-23T13:35:45.671016Z id=19641 event=gram.send_job.end level=INFO status=0
ts=2012-05-23T13:35:45.671050Z id=19641 event=gram.end level=DEBUG
ts=2012-05-23T13:35:45.857832Z id=19614 event=gram.job.start level=INFO
gramid=/16217986330776843571/1704917388719481232/ peer=""
ts=2012-05-23T13:35:45.875953Z id=19614 event=gram.query.start level=INFO
uri="/16217986330776843571/1704917388719481232/"
ts=2012-05-23T13:35:45.875989Z id=19614 event=gram.query.end level=INFO
gramid=/16217986330776843571/1704917388719481232/
uri="/16217986330776843571/1704917388719481232/" msg="Done processing query" status=0
ts=2012-05-23T13:35:45.882822Z id=19614 event=gram.query.start level=INFO
uri="/16217986330776843571/1704917388719481232/"
ts=2012-05-23T13:35:45.888646Z id=19614 event=gram.job.info level=INFO msg="job submitted to
lrm" lrm_id="19644"
ts=2012-05-23T13:35:45.888854Z id=19614 event=gram.job.info level=INFO
gramid=/16217986330776843571/1704917388719481232/ job_status=2
ts=2012-05-23T13:35:45.966180Z id=19614 event=gram.job.info level=INFO
gramid=/16217986330776843571/1704917388719481232/ job_status=8
ts=2012-05-23T13:36:20.399229Z id=19614 event=gram.job.info level=INFO
gramid=/16217986330776843571/1704917388719481232/ job_status=4
ts=2012-05-23T13:36:20.399337Z id=19614 event=gram.job.info level=INFO
gramid=/16217986330776843571/1704917388719481232/ job_status=4
ts=2012-05-23T13:36:20.400043Z id=19614 event=gram.job.end level=ERROR
gramid=/16217986330776843571/1704917388719481232/ job_status=4 status=-73 reason="the job
manager failed to open stdout"

Not applicable Quality Criteria
"GENERIC_SERVICE_5 (Automatic Configuration)".

"INFODISC_IFACE_1 (Information Discovery Interface)" - this is interpretable. SAGA does not publish information, so from this point of view the QC is NA. Still, SAGA provides an API to search for and get information published by other Grid services, so from this point of view it should conform this QC.

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):
None.

Comments for SR (TSA1.3):
None.

Comments for DMSU (TSA2.5):
None.

Comments for TP:
See the verification sheet appended at the end of this document.

Criteria	Accepted (Y/N/NA)	Tested (TP/VLD)	Comments	RELEASE:	VALID	RT TICKET:
Generic QC						
GENERIC_DOC_1 (Functional Description)	Y	VLD	Provided in file "/usr/share/saga/doc/html/cpp/index.html". **Suggestion**: maybe a README file should be provided in /usr/share/doc/saga/			
GENERIC_DOC_2 (Release Notes)	N	VLD	Release notes not provided in any file installed by the package. I saw that README and CHANGES files are provided in source tarball, but this is not the case for the RPM package.			
GENERIC_DOC_3 (User Documentation)	Y	VLD	Provided as a Web page at http://www.saga-project.org/documentation/tutorials. Suggestion: the link to user guide should be provided explicitly in a README file. Also a programming guide is provided in file "/usr/share/saga/doc/pdf/saga-programming-guide.pdf".			
GENERIC_DOC_4 (Online help (man pages))	N	VLD	The following commands neither provide a man page, nor support "-h" or "--help" option: /usr/bin/saga-config* /usr/bin/saga-context /usr/bin/saga-install.pl* /usr/bin/saga-install.sh* /usr/bin/saga-mkbindist.pl /usr/bin/saga-mksrcdist.pl /usr/bin/saga-run.sh /usr/bin/saga-shell** * They display help (usage) information, but do not support the -h or –help option. ** Provide an internal "help" command, but not a man page or -h or –help option.			
GENERIC_DOC_5 (API Documentation)	Y	VLD	Provided as a Web page at http://apidoc.saga.cct.lsu.edu/saga-cpp/latest/ and http://apidoc.saga.cct.lsu.edu/saga-python/latest/. Also installed documentation provided in directory "/usr/share/saga/doc/html/cpp/" for the C++ API and "/usr/share/saga/doc/python/html" for the Python API.			
GENERIC_DOC_6 (Administrator Documentation)	Y	VLD	Provided on the Web page at http://www.saga-project.org/documentation/installation for installation from source tarball. Not necessary for installation from packages.			
GENERIC_DOC_8 (Software License)	N	VLD	No "clear" document or link for license is provided. The source tarball contains a LICENCE file, which is not included in the package. There is yet a licence provided in file "/usr/share/saga/doc/html/cpp/license.html", but this seems to be related only to the C++ interface. I recommend the LICENCE file be placed in the root directory of the saga documentation. Otherwise, SAGA is released under Boost Software Licence (BSL-1.0), which is approved by Open Source (see http://www.opensource.org/licenses/bsl1.0.html), so it is OK.			

GENERIC_DOC_9 (Release changes testing)	N	VLD	It is not clear which are the release changes to be tested for the current release. Tested for Globus adapter submit jobs (both command line tool and API) and they are run successfully, but stdout cannot be opened. Not clear how to fix the problem. Programs (command line commands and C programs) freeze forever. Error running "saga-profile.sh". [root@test05 ~]# saga-profile.sh --help basename: extra operand `or:' Try `basename --help' for more information. /usr/bin/saga-profile.sh: line 17: --text: command not found /usr/bin/saga-profile.sh: line 18: /tmp/saga.profile.Usage: basename NAME [SUFFIX]
GENERIC_DIST_1 (Source Code Availability)	Y	VLD	Sources provided only as tarball at http://download.saga-project.org/saga-interop/dist/SRC/saga-core-1.6.tgz. It could be better if RPM sources would be also provided.
GENERIC_DIST_2 (Source Distribution)	Y	VLD	Sources configured and compiled successfully. Build instructions provided in an INSTALL file included in source tarball.
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	RPM binary packages provided.
GENERIC_SERVICE_5 (Automatic Configuration)	NA	VLD	No reference to any automatic configuration tool was found in provided documentation.
GENERIC_MISC_2 (Bug Tracking System)	Y	TP	IGE provides support at the 3rd level in EGI Helpdesk.
Information Capabilities QC			
INFOMODEL_SCHEMA_1 (GlueSchema Support)	Y	TP	Compatible with GLUE-1.3 and GLUE-2. See document http://www.ogf.org/documents/GFD.144.pdf. No test suite provided.
INFODISC_IFACE_1 (Information Discovery Interface)	NA	VLD	SAGA do not publish any info. LDAP support not mentioned anywhere. Still I found few referenced to it in the source code. Anyway it is not clear for a user if LDAP is supported or not.
Client Capabilities QC			
CLIENT_API_1 (SAGA API Support)	Y	TP	
CLIENT_API_2 (Middleware Bindings)	Y	TP	